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Attachment 1
to
item 59

Ham Common

Draft Plan of Management

and Master Plan

date of meeting: 31 March 2009

location: council chambers

time: 5:00 p.m.

## Ham Common

CLARENDON





# Draft Plan of Management 18 February 2009

prepared by **LandArc Pty Limited** 

Landscape, Environmental and Heritage Consultants

## **CONTROLLED DOCUMENT**

Draft Issue B: 18 February 2009

This Plan of Management for **Ham Common, Clarendon** was prepared by

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## 1.0 LAND DESCRIPTION AND PLANNING

## 1.1 INTRODUCTION

## 1.1.1 WHAT IS A PLAN OF MANAGEMENT?

Ham Common, located on Windsor Road between Richmond and Clarendon, is community land owned by Hawkesbury City Council. A community land plan of management provides the framework for managing community land.

A community land plan of management must be prepared in accordance with the *Local Government Act 1993* and other relevant legislation and policies. This plan of management has been prepared by LandArc Pty Limited for Hawkesbury City Council under the direction of Council's Land Management section. Hawkesbury City Council has identified a number of significant and/or priority parks and reserves which require the preparation of more detailed and specific management strategies. Ham Common is one of these significant areas and this plan of management supersedes the generic plan of management which included this reserve.

## 1.1.2 AIMS AND OBJECTIVES

This plan of management aims to contribute towards Council achieving its strategic goals, vision and strategic outcomes as identified in the *Hawkesbury City Council Management Plan 2006-2007*. Sustainability is a key principle guiding this process. The plan of management aims to contribute to an ecologically sustainable city and region and add to the quality of life in the Hawkesbury City local government area (LGA).

Ham Common, located in close proximity to the town centres of Windsor and Richmond and along a major connecting road to the Blue Mountains, offers passive and active recreational and educational opportunities for the local community and regional visitors. Ham Common has a range of natural, cultural, social, commemorative and recreational values. It is important that the plan of management identifies these values and establishes how they should be protected, managed and enhanced for the existing community and

for future generations. Accordingly, the plan of management focuses on the longer term objectives of sustainable management and follows a values-based approach rather than being simply issues-driven.

The following steps have guided preparation of this plan of management:

## 1.0 LAND DESCRIPTION AND PLANNING

- review existing zoning provisions under Hawkesbury City Council's Local Environmental Plan (LEP 1989 as amended);
- identify current uses and condition of the land, and any buildings or other improvements;
- establish community land categories in accordance with the Local Government Act 1993 and Local Government (General) Regulation 1999 and identify core objectives for each of these categories; and
- address future permitted uses and development (including intensity and scale), existing and future leases/ licences.

## 2.0 COMMUNITY CONSULTATION

- identify and assess community and stakeholder issues affecting the community land; and
- determine community goals, values, needs and expectations for the future use and management of the reserve.

#### 3.0 BASIS FOR MANAGEMENT

- define the community land's role within the local area and broader regional context (including regional tourism);
- identify and assess key values associated with the community land including the cultural/ natural setting, cultural heritage, tourism, social and recreational values and remnant biodiversity;
- assess the impact of existing uses and management regimes or future development on identified key values; and
- establish the framework for sustainable management strategies.

## **4.0 MANAGEMENT STRATEGIES**

- specify the purposes for which the land, buildings or improvements, will be permitted to be used;
- specify the purposes for which any further development of the land will be permitted, whether under lease or license or otherwise;
- describe the scale and intensity of such permitted use or development;
- develop appropriate performance targets (management objectives), means of achieving these targets (management actions) and means of assessing Council's performance with respect to objectives;
- assign directions and priorities (spanning the next 5-years); and
- develop a master plan for implementation of the strategic plan.

## 1.1.3 LIST OF ABBREVIATIONS USED IN THIS STUDY

CPEECs Cumberland Plain Endangered Ecological Communities

CPW Cumberland Plain Woodland

DECC NSW Department of Environment & Climate Change

EPBC Act Environment Protection & Biodiversity Conservation Act 1999

HRCC Hawkesbury River County Council
HRFC Hawkesbury Rural Fire Service

LEP Hawkesbury City Local Environmental Plan 1989
LGA Local Government Area (Hawkesbury City Council)

NPWS NSW National Parks & Wildlife Service
NSWRFS New South Wales Rural Fire Services

RFEF River-flat Eucalypt Forest

SREP Sydney Regional Environmental Plan

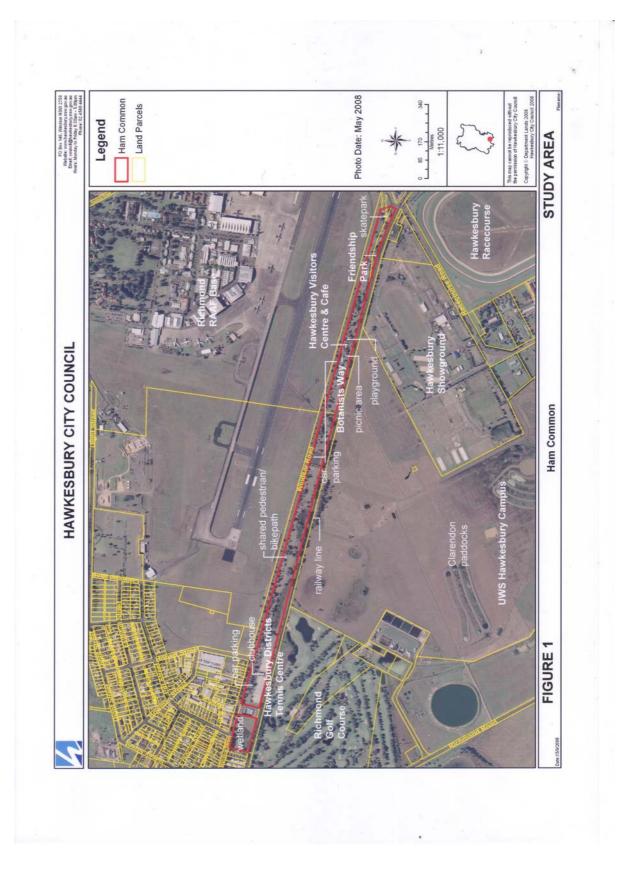
TSC Act Threatened Species Conservation Act 1995

## 1.2 STUDY AREA

## 1.2.1 LOCATION AND CONTEXT

This plan of management applies to Ham Common, a narrow, linear parcel of community land which extends along the southern side of Windsor Road from Richmond (opposite Pitt Street intersection) in the west to Racecourse Road intersection near Clarendon Railway Station in the east. Ham Common is approximately 2.5 kilometres in length and 85 metres at its widest point (western end). The Blacktown – Richmond railway line defines the southern boundary of the reserve. The Richmond RAAF base is located directly opposite the reserve. Ham Common is contiguous public open space except for a small parcel of land at the western end (refer to *Figure 1: Study Area*).

The study area is inclusive of areas known as Friendship Park, Bicentenary Park, Hawkesbury Visitors Centre and café, Hawkesbury Districts Tennis Centre, a regional playground, skate park and other public facilities and monuments. A shared pedestrian/ bikeway provides an important recreational link between Richmond and Clarendon. This pathway links all of the reserve's recreational, cultural, commemorative and educational facilities. It winds through an attractive landscape setting of established plantations of mixed planted exotics, native specimen trees and large old growth remnant native trees. Jogging/ fitness, relaxation, bike riding, walking the dog, picnics/ BBQs, family gatherings and watching activity on the adjacent RAAF Base Richmond are all popular passive recreational pursuits in this reserve.



#### 1.2.2 BACKGROUND

Ham Common was established by Governor King in 1803. It was part of a larger network of 'commons' for livestock totaling approximately 14,000 hectares (Ha) in Pitt Town, Richmond, Wilberforce, St Albans, Baulkham Hills and Field of Mars. Ham Common originally consisted of almost 2000 hectares of higher ground on the floodplain stretching from the present Castlereagh Road to farms along South Creek.

In 1864 the Blacktown – Richmond railway line separated a large northern part of the Common. In response to growing needs in the district, large portions of the Common were developed for Hawkesbury Racecourse (1868) and Hawkesbury Agricultural College (1892). In 1923 most of the northern portion was set aside for an Air Force base.

The reserve has a rich cultural heritage. Ham Common was the cradle of aviation in Australia. It was the location of many pioneering flights during the early years of the twentieth century. Ham Common (RAAF Base Richmond) was the site selected for the first Air Force base in New South Wales and the second to be established within Australia (<a href="www.airforce.gov.au">www.airforce.gov.au</a>). During the war years and particularly the post-war period the site saw rapid development of the Air Force base. These associations with RAAF Base Richmond and exservicemen since WW1 have been recognized in the monuments and memorial planting within the reserve.

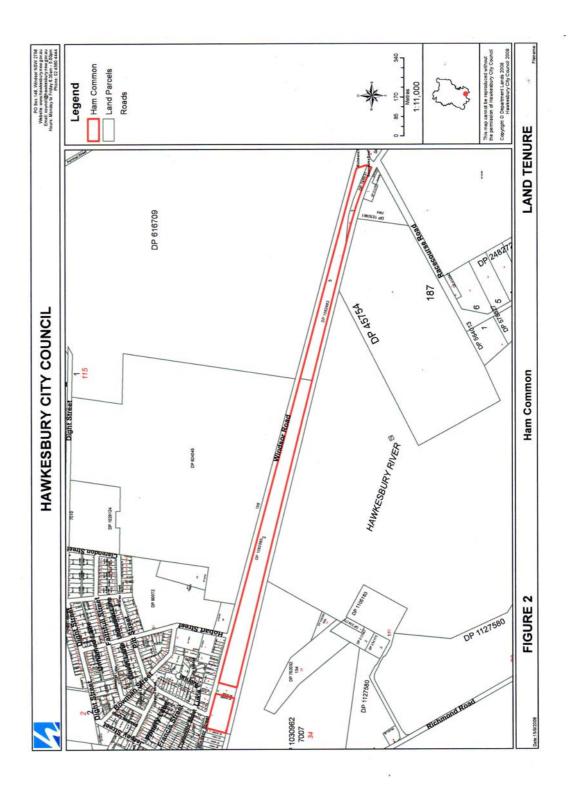
## 1.3 LAND DESCRIPTION

## 1.3.1 LAND TENURE

Ham Common is located within the Parishes of Ham Common and St Matthew, County of Cumberland, City of Hawkesbury. Ham Common is classified as community land and owned in fee simple by Hawkesbury City Council. It is comprised of four separate parcels of community land:

- Lot 1 DP 1062683
- Lot 2 DP 1062683
- Lot 3 DP 1062683
- Lot 1 DP 746631

These parcels of land are contiguous except for a small western portion (refer to *Figure 2: Land Tenure*).



## 1.3.2 EXISTING FACILITIES AND IMPROVEMENTS

Table 1: Land Description – Existing Facilities & Improvements is divided into four separate columns with the following information provided for each land parcel:

- Lot/ DP number (column 1);
- proposed community land category (column 2);
- description of land parcel, facilities and improvements (column 3);
- condition of facilities and improvements (column 4).

#### Lot/ DP number

Lot and DP number provide land tenure information for the land parcel according to Hawkesbury City Council's property records.

## Community land category

The proposed community land category is shown in this column.

## Land description, facilities and improvements

This column provides a brief description of the land parcel, including facilities and improvements, landscape embellishment and the presence of remnant native vegetation and/ or exotic weeds. An indication of land management regimes (eq. mowing and general maintenance) is also provided.

## Condition

This column refers to the general condition of facilities and improvements in accordance with the requirements of the *Local Government Act 1993*. The assessment of condition follows directly from the description of facilities and improvements (ie. same line) and provides a broad indicator of overall condition of these described items as follows:-

good described items are in relatively good condition and repair under the current works and maintenance program.
 fair described items are in only fair condition and in need of repair/ improvements or an increased level of maintenance.
 poor described items are in poor condition requiring repair in some instances, improvements or an increased level of maintenance with some items requiring urgent attention.

The condition assessment refers primarily to built facilities and improvements. For further issues in relation to facilities/ condition, refer to 2.0 Community Consultation. Refer to 3.0 Basis for Management for a description of the reserve's environmental condition, cultural heritage and recreational assets and 4.0 Management Strategies for proposed capital works, maintenance and management with respect to all items.

## TABLE 1: LAND DESCRIPTION EXISTING FACILITIES AND IMPROVEMENTS

Land Description	Community Land Category	Existing Facilities/ Improvements Cor	dition
Lot 1 DP 1062683	Natural area: wetland	western paddock/ wetland native wetland vegetation/ exotic weeds [dom.]	poor
	Park	grassed drainage channels/ swales culverts/ piped drainage channels compound w. metal shed/ conc. apron [unidentified]	poor good
		w. security chain-wire fencing/ gates and driveway	good
		conc. pedestrian pathway [1.2m width] mown grass/ cultivated trees	good fair
		chain-wire perimeter fencing [to railway]	good
Lot 2	Sportsground	Hawkesbury Districts Tennis Centre:	
DP 1062683		Tennis clubhouse metal frame/ tiled roof	good
		conc. pathways/ ornamental gardens 14 No. all weather synthetic grass tennis courts	good
		w. chain-wire perimeter fencing	good
		18 No. metal poles w. twin lighting fixtures [36No.] 5 No. double shelters & 2 No. single shelters/	good
		[all timber frame/ metal roof w. timber picnic	
		tables & seats on conc. base] 25 No. timber bleaches	varies good
		7 No. metal litter bins/ 2 No. conc. litter bins	fair
		weldmesh fencing	good
		vehicular access road & parking area: sealed bitumen/ kerbed car parking area w.	
	Dork	slow-points/ speed humps [72 No. car spaces]	good
	Park	passive open space: picnic table/ seating on conc. pad	fair
		lawn areas/ cultivated trees	good
		drained open grassed swales	fair
		remnant native trees [incl. old growth specimens]	poor
		shared 1.8m width conc. pedestrian/ bikeway timber signage/ [George Capper Cycleway]	good fair
		chain-wire perimeter fencing [to railway]  National Servicemen [1951-1972] monument:	good
		2 No. metal flagpoles/ conc. pathway &	
		marble monument & plaque	good
		car parking area [central/ bus turning area]: asphalt car parking area [approx. 3000m2]	fair
		metal signage [regulatory]	good
Lot 3	Park	passive open space [western portion]:	
DP 1062683		lawn areas/ cultivated trees	good
		chain-wire perimeter fencing [to railway] shared 1.8m width conc. pedestrian/ bikeway	good good
		mounded landscape feature w. rockwork/	good
		water feature [non-functional]	poor
		brick paving & ornamental garden	fair
		4 No. fibreglass conc. bench seats  Bicentennial Park [main picnic area]:  E No. pippio chalters [math.treef w. timber pippio	poor
		5 No. picnic shelters [metal roof w. timber picnic tables & seats on conc. base]	good
		BBQ shelter [metal roof w. 2 No. gas-fuelled	good

## Table 1 [continued]

	Land Category		Condition	
Lot 3	Park	3 No. timber picnic tables on conc. pads	good	
DP 1062683	[cont'd]	2 No. park lighting fixtures on metal poles	fair	
	[	1 No. bubbler/ tap	good	
		public amenities building:		
		brick/ metal roof w. tile floor & disabled toilet	good	
		vehicular access road & parking area:		
		sealed bitumen/ kerbed car parking area w.		
		slow-points/ speed humps [37 No. car spaces]	good	
		3 No. lighting fixtures on metal poles	good	
		metal signage [regulatory] 4 No. metal litter bins	good	
		3 No. pebble aggregate conc. litter bins	good poor	
		information kiosk/ shelter:	poor	
		information panels [metal] w. 4 No. ground-		
		mounted vandal-resistant lighting fixtures &		
		metal handrail	good	
		The Botanists Way visitor signage:	•	
		curved metal frames/ panels & acrylic signage		
		on conc. pad	good	
	General	Hawkesbury Visitors Centre & Cafe:		
	community use	brick & timber/ metal roof building	good	
		outdoor courtyard/ pebble aggregate paving	good	
		w. tables/ seating & umbrellas asphalt & brick paving/ pebble aggregate ramp	good fair	
		timber post & rail fencing	fair	
		ornamental gardens/ landscaping	fair	
		electricity substation/ box [rear area]	good	
		lawn areas/ cultivated trees	good	
		chain-wire perimeter fencing [to railway]	good	
		remnant native trees [incl. old growth specimens	s] good	
	Park	regional children's playground:		
		1200m high metal safety fence w. latch gates	good	
		painted timber picket fence [front boundary]	good	
		entry structure/ shelter [metal roof]	good	
		2 No. picnic shelters [metal roof/ timber frame] v		
		timber slat/ metal frame picnic tables & seating timber slat/ metal frame bench seating	good good	
		3 No. metal litter bins	good	
		coloured conc. pathways and hardstand areas	good	
		synthetic soft fall surfaces	good	
		sandstone walls/ landscaping	good	
		sandstone sculptures/ blocks w. bubblers	good	
		consolidated aggregate finishes	good	
		Kompan climbing frames/ platforms & slide	good	
		Kompan junior swing set	good	
		Kompan toddlers train	good	
		Kompan cubby house/ seat & play frame	good	
		Kompan toddlers swing set	good	
		conc./ steel mesh plane remnant native trees [incl. old growth specimens	good	
		passive open space [eastern portion]:	- 0	
		metal vehicular safety fence [adj. to playground]	-	
		lawn areas/ cultivated trees	good	
		shared 1.8m width conc. pedestrian/ bikeway	good	
		grassed drainage channels/ swales	poor	

Table 1 [continued]

Land Description	Community Land Category	Existing Facilities/ Improvements Co	ndition
Lot 3 DP 1062683	Park [cont'd]	conc. culverts/ piped drainage channels 1 No. picnic shelter [metal roof/ frame] w. 3 No.	good
		timber slat/ metal frame picnic tables & seating  RAAF Base Richmond monument:  enclosed circular monument w. low brick wall/	good
		4 No. sandstone piers/ plane sculpture & plaques	good
		conc. patterned paving w. aggregate/ sandstone Friendship Park [monument group]:	good
		3 No. metal flagpoles in aggregate	good
		low brick wall/ metal signage & brass plaques	good
		conc. pathway w. brick banding [split into two] 2 No. timber slat/ metal frame picnic tables &	good
		seating in brick paved area	fair
		lawn areas/ cultivated trees	good
		chain-wire perimeter fencing [to railway] skate park:	good
		conc. hardstand w. various structures/ ramps	
		jumps & metal rails	fair
		conc. culvert/ drainage swale & grassed areas	poor
		2 No. timber slat/ metal frame bench seating 2 No. metal poles for banners	fair good
		noticeboard/ shelter structure	good
		Memorial Drive & other signage [regulatory]	fair
		1 No. metal litter bin/ 1 No. large capacity bin	poor
		timber [log] vehicular barriers	good
		shared 1.8m width conc. pedestrian/ bikeway	good
Lot 1	Park	passive open space:	
DP 746631		[portion of Friendship Park]	good
		lawn area/ cultivated trees car parking area [adjacent to skate park]:	good
		unsealed access road [off Racecourse Road]	poor
		unsealed car parking area [<10-15 car spaces]	poor
		metal boom gate/ steel bollards	poor
		timber bollards/ vehicular barriers	poor
		chain-wire perimeter fencing [to railway]	good

## 1.4 COMMUNITY LAND MANAGEMENT

Community land must be managed in accordance with the *Local Government Act 1993* and other relevant legislation and policies. The ways in which community land can be used and managed are strictly governed in accordance with an adopted plan of management and any law permitting the use of the land for a specified purpose or otherwise regulating its use. The nature and use of community land may not change without an adopted plan of management. Community land must not be sold, exchanged or otherwise

disposed of except in the instance of enabling the land to be added to Crown reserve or a protected area under the *National Parks and Wildlife Act 1974*. The use and management of community land must also be consistent with its designated categories and core objectives.

## 1.5 COMMUNITY LAND CATEGORISATION

In accordance with the *Local Government Act 1993* all community land must be categorised as either a natural area, a sportsground, a park, an area of cultural significance or for general community use, or a combination of these categories. A further requirement is that land categorised as a "natural area" must be given a sub-category of either bushland, wetland, escarpment, watercourse, foreshore or a category prescribed by the regulations. The *Local Government (General) Regulation 2005* provides guidelines for categorisation. This plan of management categorises the community land (ie. Ham Common) into the following (see *Figure 3: Community Land Categorisation*):

- Natural area wetland;
- Park;
- · Sportsground; and
- General community use.

The community land categorisation identified in this plan of management is in accordance with the guidelines of the *Local Government (General) Regulation 2005*. Although generally consistent with the *Draft Hawkesbury Generic Plans of Management 2003* and previous draft mapping, the categories identified in this plan of management supersede and replace any earlier categorisation.

## **Natural Area**

"Land should be categorised as a natural area under s.36(4) of the Act if the land, whether or not in an undisturbed state, possesses a significant geological feature, geomorphological feature, landform, representative system or other natural feature or attribute that would be sufficient to further categorise the land as bushland, wetland, escarpment, watercourse or foreshore under section 36(5) of the Act".

Section 102, Local Government (General) Regulation 2005

#### Natural Area – wetland

"Land that is categorised as a natural area should be further categorised as wetland under s.36(5) of the Act if the land includes marshes, mangroves, backwaters, billabongs, swamps, sedgelands, wet meadows or wet heathlands that form a waterbody that is inundated cyclically, intermittently or permanently with fresh, brackish or salt water, whether slow moving or stationary".

Section 108, Local Government (General) Regulation 2005

The small western parcel of land (separated from the balance of the reserve) retains a highly modified freshwater wetland. This land has been cleared, drained, invaded by weeds and alienated by transportation links (road and railway) and surrounding urban development. The land is subject to future road works.

#### **Park**

"Land should be categorised as a park under s.36(4) of the Act if the land is, or is proposed to be, improved by landscaping, gardens or the provision of non-sporting equipment and facilities, for use mainly for passive or active recreational, social, educational and cultural pursuits that do not unduly intrude on the peaceful enjoyment of the land by others".

Section 104, Local Government (General) Regulation 2005

Most of Ham Common Park is categorised as "Park" in accordance with its landscaped character of open lawns, cultivated native and exotic trees and passive recreational uses. Bicentennial Park, Friendship Park, picnic areas and parking facilities, playground, skate park and monuments are included under this categorization.

## **Sportsground**

Land should be categorised as sportsground under s.36(4) of the Act if the land is used or proposed to be used primarily for active recreation involving organised sports or the playing of outdoor games.

Section 103, Local Government (General) Regulation 2005

The Hawkesbury Districts Tennis Centre is categorised as sportsground in accordance with existing sporting uses.

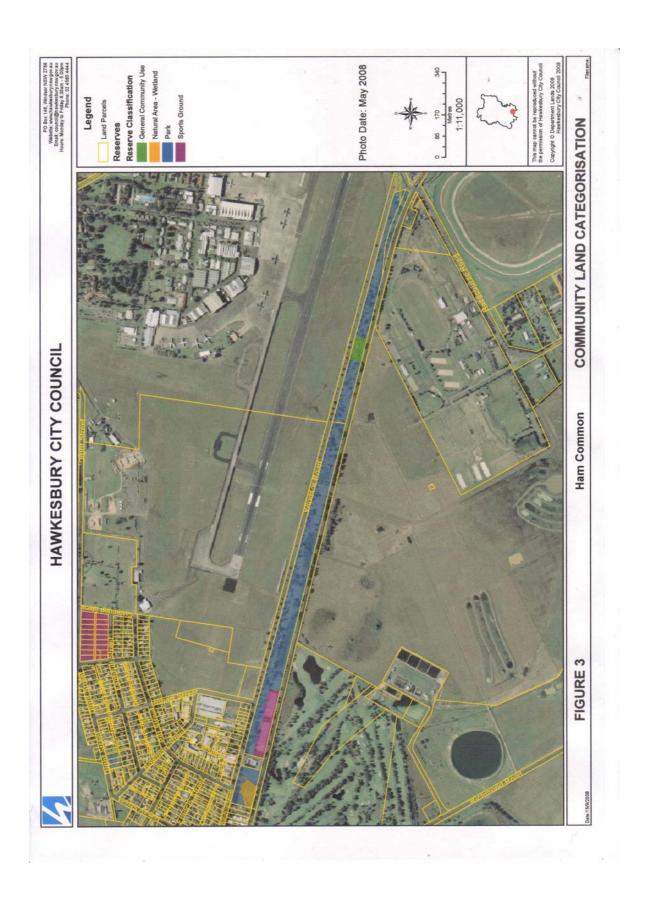
## **General Community Use**

Land should be categorised as general community use under s.36(4) of the Act if the land:

- (a) may be made available for use for any purpose for which community land may be used, whether by the public at large or by specific sections of the public, and
- (b) is not required to be categorised as a natural area under section 36A, 36B or 36C of the Act and does not satisfy the guidelines for categorisation as a natural area, a sportsground, a park or an area of cultural significance.

Section 106, Local Government (General) Regulation 2005

The Hawkesbury Visitors Centre, café and surrounding curtilage are categorised as general community use. There is a current proposal to extend and upgrade the Hawkesbury Visitors Centre.



## 1.6 LEASES, LICENCES OR OTHER ESTATE

#### 1.6.1 PRESCRIBED PURPOSE

A lease, licence or other estate may be granted, in accordance with an express authorisation by this plan of management, providing the lease, licence or other estate is for a purpose prescribed in s.46 of the *Local Government Act 1993*. The purpose must be consistent with core objectives for the category of community land (refer to *4.0 Management Strategies - Table 4: Schedule of Core Objectives*).

## 1.6.2 EXPRESS AUTHORISATION

For express authorisation of current and future permitted leases, licences or other estate refer to *Table 5: Action Plan -items A6-A8.* 

## 1.6.3 GENERAL TERMS AND CONDITIONS

Council must not grant a lease, licence or other estate for a period (including any period for which the lease could be renewed by the exercise of an option) exceeding 21 years. A lease, licence or other estate may be granted only by tender in accordance with s.46A of the *Local Government Act 1993* and cannot exceed a term of 5 years (including any period for which the lease could be renewed by the exercise of an option), unless it satisfies the requirements as scheduled in s.47, or is otherwise granted to a non-profit organisation (refer to *Leases*, *licences and other estate in respect of community land* – s.46, 46A, 47 and 47A Local Government Act 1993).

## 1.6.4 NATURAL AREAS

Furthermore, leases, licences or other estate must not be granted in respect of land categorised as a natural area, unless it is for a purpose prescribed in s.47B of the *Local Government Act 1993*.

## 1.6.5 CURRENT LEASES

There are currently two leases over this community land as follows:

- Hawkesbury Districts Tennis Centre; and
- Café [retail shop].

## 1.7 OTHER RELEVANT LEGISLATION & POLICIES

## 1.7.1 OVERVIEW

In addition to the requirements of the *Local Government Act 1993* this plan of management has been prepared in accordance with the provisions contained

in other relevant legislation and policy guidelines, including but not limited to the following:

Native Title Act (Commonwealth) 1993
Catchment Management Authorities Act 2003
Environment Protection and Biodiversity Conservation Act 1999
Threatened Species Conservation Act 1995
Fisheries Management Act 1994
National Parks and Wildlife Act 1974
NSW Heritage Act 1977
Noxious Weeds Act 1993
Rural Fires Act 1997
Environmental Planning and Assessment Act 1979
Disability Discrimination Act 1992
SEPP 19: Bushland in Urban Areas
NSW Flood Policy 1984
Hawkesbury City Council Management Plan 2006-2007
Hawkesbury Local Environmental Plan 1989
Section 94 Contributions Plan Review 2001
Hawkesbury City Council Charter
Hawkesbury Cultural Plan 2006-2011

## Native Title Act (Commonwealth) 1993

This plan of management acknowledges the significance of the Hawkesbury River Valley as a traditional resource area for the Darug Aboriginal people. The consultative process has emphasised an open, transparent approach. Accordingly, this plan of management encourages broader involvement with traditional Aboriginal custodians in the future management of the reserve.

## Environmental Planning and Assessment Act 1979

The Environmental Planning and Assessment Act 1979 forms the basis of statutory planning in New South Wales, including the preparation of Local Environmental Plans (LEPs) which regulate land use and development. Hawkesbury City Council, as the consent authority under the Local Environmental Plan 1989 (LEP 1989) and the Environmental Planning and Assessment Act 1979 controls development and the use of land on parks and reserves in the Hawkesbury City Council local government area.

Ham Common is zoned 6(a) OPEN SPACE (EXISTING RECREATION) under the *Hawkesbury City Council Local Environmental Plan* ( LEP 1989). The small western paddock is zoned (in part) as 9(b) RESERVATIONS (PROPOSED ROAD).

It is desirable that zoning is consistent with this plan of management. A large portion of the western paddock is categorized as Natural area – wetland. Current planning and management anomalies need to be addressed.

## Threatened species legislation

The separate parcel of land at the western end of Ham Common retains a small, remnant freshwater wetland albeit highly modified and degraded. This area still retains unique ecological values as a freshwater wetland and has state significance listed as an endangered ecological community (Part 3, Schedule 1) of the *Threatened Species Conservation (TSC) Act 1995*.

Ham Common also retains remnant native trees, including a small number of magnificent old growth specimens. These trees are components of the former Alluvial Woodland community (now described as River-flat Eucalypt Forest). River-flat Eucalypt Forest is listed as an endangered ecological community (Part 3, Schedule 1) under the *Threatened Species Conservation (TSC) Act* 1995.

No part of this community land has been declared as "critical habitat" nor is it currently affected by a "recovery plan" or "threat abatement plan". The National Parks and Wildlife Service (NPWS) is currently developing a Draft Recovery Plan for all of the Cumberland Plain Endangered Ecological Communities (CPEECs). For further details see 3.0 Basis for Management.

## 2.0 COMMUNITY CONSULTATION

## 2.1 INTRODUCTION

## 2.1.1 PREPARING THE DRAFT PLAN OF MANAGEMENT

Hawkesbury City Council has promoted an open, transparent approach to community consultation, providing opportunities for stakeholders and members of the community to contribute comments and submissions or to discuss specific issues.

A community workshop was held during preparation of the draft plan of management (refer to 2.2 Community Workshop). Further consultation continued through to release of the draft plan of management (ie. public exhibition), at which time the community was able to make final comments and submissions. This process highlights the importance of community involvement and ownership in the adopted plan of management.

## 2.1.2 PUBLIC EXHIBITION AND REVIEW

In accordance with the *Local Government Act 1993* the draft plan of management must be placed on public exhibition for a period of at least 28 days (ie. four weeks). A further two weeks are provided for completion of written submissions. During the public exhibition period the draft plan of management will be available for viewing at the Hawkesbury City Council Administrative Offices, Hawkesbury Central Library (in the Deerubbin Centre), Windsor and on Council's web-site <a href="http://www.hawkesbury.nsw.qov.au/">http://www.hawkesbury.nsw.qov.au/</a>

All public submissions and any comments submitted by other government agencies will be reviewed by Hawkesbury City Council. The draft plan of management, as amended following public submissions and review, will be submitted to Council for adoption.

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## 2.2 COMMUNITY WORKSHOP

#### 2.2.1 PROCEEDINGS

The main purpose of the community workshop is to discuss the way the community values the reserve, to identify important issues affecting these values and to promote opportunities for future sustainable management. The workshop aims to provide a transparent and equitable forum for all user groups, stakeholders and individuals.

A community workshop was held at the Tebbutt Room, Deerubbin Centre, 300 George Street, Windsor at 6:30pm on Tuesday 7<sup>th</sup> October 2008. The workshop was advertised by Hawkesbury City Council in the local press and notices in Council's Administrative Offices and Hawkesbury Central Library. Council also contacted a large number of stakeholders.

Apart from Councillors, council staff and individual participants, the key stakeholder groups contacted for the workshop included the following (in alphabetical order):

- Darug Aboriginal Landcare Incorporated
- Darug Custodian Aboriginal Corporation
- Darug Tribal Aboriginal Corporation
- Dept. of Environment & Climate Change (DECC) Richmond Office
- Hawkesbury Districts Tennis Centre (lessee)
- Hawkesbury District Rural Fire Service
- Hawkesbury Visitors Centre
- local childcare groups
- local community services clubs
- local tour operators
- RAAF Richmond Base
- retail shop/ café (lessee)
- Roads & Traffic Authority (RTA)
- University of Western Sydney (UWS Richmond Campus)

A total of only four (4) people attended the workshop (not including Council staff). The workshop proceeded with a description of the plan of management process and a short power-point presentation by Noel Ruting, a Director of LandArc Pty Limited (see *Appendix I: Community Consultation – presentation material and submissions*). This presentation was followed by a discussion of key issues by workshop participants.

A Community Issues Questionnaire (pro-forma – refer to *Appendix I*) was distributed to all stakeholders at the workshop and written responses were received from all attendees. The issues are summarised in the following section (2.3 Key Issues).

#### 2.2.2 FURTHER SUBMISSIONS

One written submission was received from the Darug Custodian Aboriginal Corporation in reference to 'Future Management of Reserves in the Hawkesbury' and in particular, the preparation of plans of management for Ham Common and Streeton Lookout. This submission flagged the need to survey these two reserves, to investigate potential Aboriginal cultural heritage sites and to ensure appropriate protection, management and education including signage. The submission noted the potential for finding sites of Aboriginal cultural significance on Ham Common.

#### 2.3 KEY ISSUES

## **2.3.1 SUMMARY**

Hawkesbury City Council's brief for the plan of management and subsequent discussions with staff identified the following issues for investigation:

- suitability, or otherwise, of existing recreational facilities, amenities, other park infrastructure and future improvements;
- future extension of the Hawkesbury Visitors Centre/ tourism precinct including possible future development of the arboretum;
- park management and general maintenance;
- fund generating/ complimentary commercial opportunities;
- impact of central car parking area/ bus turning area (size, scale, public safety and disruption of cycleway linkages);
- skate park vandalism/ youth issues and opportunities; and
- ongoing requests for additional monuments.

The community workshop presentation by Noel Ruting, Director of LandArc Pty Limited, raised a number of issues observed during site investigations:

- cultural setting/ open grassed areas and tree planting;
- · important associations with RAAF Base Richmond;
- cultural and commemorative significance of reserve;
- significance of remnant old growth specimen trees;
- public accessibility and circulation;
- · varying condition of facilities, including car parking areas;

- varying level of maintenance (eg. skate park and playground);
- opportunities for improvements and upgrading of facilities and possible development of an arboretum; and
- opportunities for improved environmental protection.

Participants at the community workshop discussed a number of key values and issues in relation to the reserve. The discussion was supported with written comments (Community Issues Questionnaire) including the following:

- · visitor access and safety;
- traffic management and parking;
- pedestrian/ bicycle circulation;
- · provision and enhancement of recreational facilities;
- recognition of development of facilities by the local community;
- environmental protection and management;
- protection of potential Aboriginal cultural heritage;
- maintenance of facilities, monuments, tree planting and landscape features;
- improving quality of youth facilities (eg. skate park); and
- opportunities for special community events.

A summary of key issues has been compiled (for further detailed analysis and review see the relevant sections as indicated):

## 1. Natural and cultural environment

(refer to 3.0 Basis for Management – 3.3 Natural and cultural setting, 3.4 Cultural heritage & 3.5 Environment and biodiversity):

- significance of cultural setting, linear corridor of public open space adjacent to RAAF Base Richmond, major connecting road and railway line;
- significance and extent of cultural overlay on largely cleared and modified natural landscape to create existing park-like setting of open mown grassed areas with clustered and scattered trees (ie. memorial drive);
- community planting program using generic native and exotic/ ornamental trees and shrubs conceived and implemented by Ross Miller (1000 trees and shrubs were planted in one day);
- tree plantations define the linear reserve's 'sense of place' and commemorative context (memorial drive) through a broad palette of evergreen and deciduous ornamental exotics and generic native species/ no use of local native species and genotypes;
- long-term maintenance issues/ very high plantation losses due to heavy clay soils, lack of water (establishment and maintenance) and species selection/ suitability;

- future proposal to establish George Caley Arboretum as a second stage/ complimentary to the Botanists Way display focusing on the native plants of the Hawkesbury Valley and Blue Mountains World Heritage Area;
- opportunities to enhance reserve's role in the interpretation of Aboriginal, cultural and natural heritage values;
- importance of remnant native old growth trees in contributing to reserve's 'sense of place' and providing habitat for native species, genetic diversity, shade and amenity values;
- long-term decline of remnant native population of canopy trees (components of original woodland community) and continuing maintenance practices (eg. broad-scale mowing) impacting on ecological integrity, resilience, durability and opportunities for natural recruitment and regeneration;
- need to review causes of crown die-back and decline in ageing native tree population (eg. altered drainage/ water regime, soil compaction, arboricultural care, insect damage, disease, etc);
- need for a more integrated response to environmental restoration of woodland community and wetland areas as important components within this landscape;
- climate change and potential impacts on reserve management (increased periods of drought/ increased risk of bush fire hazard, water management, high maintenance planting schemes, impacts on biodiversity).

## 2. Public access, recreation and public safety issues

(refer to 3.0 Basis for Management – 3.6 Recreation, access and social values):

- significance of local community services involvement (Apex Club) in development of a rest area for passing motorists commenced in 1961 through to mid-1980s, including construction of recreational facilities (toilets, septic tank, tables/ seating, BBQs, water feature) and arboretum at no (capital) cost to Council;
- further enhancement and embellishment of facilities and planting during the 'Bicentennial Park' project in 1988 (including construction of Hawkesbury Visitors Centre and café (facilities now dated and described as 'just adequate');
- Botanists Way/ World Heritage Area signage panels added in 2006 (stage 1)/ implementation of the George Caley Arboretum (stage 2) would be subject to federal government funding;
- need to rationalize/ upgrade ageing passive recreational infrastructure which varies in quality and functional suitability (including picnic shelters/ shade structures, picnic tables/ seating, gas BBQ facilities, paving, signage and landscaping);

- need for improved security lighting along shared pedestrian/ cycleway and recreational facilities;
- central asphalt car parking/ bus turning area was developed as a supplementary parking area during the Bicentennial celebrations; expansive and obtrusive element in reserve/ no delineated parking spaces/ wide vehicular entry off Windsor Road (at 80kmh) raises public safety issues/ obscured vision and potential conflict with pedestrians/ cyclists (using shared footpath/ cycleway);
- need to provide larger parking/ turning bays for tourist buses and caravans (currently no provision for parking larger vehicles in main visitor car parking area);
- regional children's playground is a high quality and wellmaintained facility (landscaped areas need attention);
- children's concrete plane/ interactive sculpture is well integrated in playground – important heritage item associated with RAAF base/ need for story acknowledgement of sculptor, date, etc;
- Hawkesbury Districts Tennis Centre picnic shelter facilities/ seating need repairs/ some vandalism;
- need to address proliferation of regulatory and information signage (of various forms), particularly car parking areas;
- ongoing requests for additional monuments/ memorials and embellishment have the potential to create an undesirable level of clutter within open spaces;
- Hawkesbury Visitor Centre and café could be improved/ upgraded to provide a more integrated visitor precinct (inc. arboretum);
- mounded water feature/ fountain and landscaping expensive element constructed in mid-1980s with reticulated water system/ pump and audio devices; now non-functional/ an ageing curiosity with various paving/ flagging detail typical of this period; recent planting in old raised beds/ suggested refurbishment using solar pump, possible removal or adaptive re-use possibly as an elevated viewing area of RAAF base;
- opportunities for developing a fitness track (including markers) a
   lot of people use the reserve for exercise and fitness;
- opportunities to promote special community events (eg. art and sculpture/ artist's displays along the shared pathway/ cycleway, music, food, etc.);
- overall condition of skate park and surrounds considered to be poor/ 'looks really bad for visitors', lack of general maintenance/ repairs, damaged barriers/ uncontrolled vehicular access, latenight use; extensive graffiti to structures/ signage and build-up of unsightly rubbish and broken glass (public safety issues);
- isolation/ alienation of skate park facilities (located well away from other visitor facilities with dense mass planting surrounds); space not considered to be 'family-friendly';

- adjoining car parking area has not been sealed/ lots of potholes, unkempt appearance and damaged/ vandalized car barriers;
- lack of community ownership/ control and need for greater youth involvement in maintaining this facility/ suggestion to erect signage regarding possible closure of facility in order to focus attention of user groups;
- need for creating broader opportunities for youth/ improvements to skate park facility and adjoining parking area including:
  - user groups and youth workers involvement in re-design and ongoing maintenance
  - enhanced skill-level facilities and/ or extension of facility
  - improved public interface to roadway/ higher visibility;
  - regular (weekly) maintenance by Council;
  - security lighting/ cameras
  - improved regulatory control/ policing and reporting of unauthorised activities.
- opportunities to enhance 'gateway point' for visitors at eastern end of reserve (adjacent to skate park) and to improve integration of recreational facilities for all user groups – children/ youth to elderly, people with disabilities, family groups, etc.



PHOTO 1: Western paddock and remnant wetland [right background] Richmond – avenue of Plane Trees [left] (03.09.2008).

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PHOTO 2: Shared pedestrian pathway/ bikepath winds through parkland. Ornamental exotic *Prunus* sp. [foreground] (03.09.2008).



PHOTO 3: Natural/ cultural setting of open grassed areas and groves of trees. Children's playground [background] (15.09.2008).



PHOTO 4: Ham Common offers excellent vantage points for viewing aircraft movements on the RAAF Base Richmond (15.09.2008).

## 3.0 BASIS FOR MANAGEMENT

## 3.1 OBJECTIVES

This section of the plan of management has the following objectives:

- u to identify and assess key values associated with the community land;
- to define the community land's role within the local area and broader district context;
- □ to assess the impact of existing uses and management regimes or future development on identified key values;
- □ to establish the framework for sustainable management strategies consistent with community land objectives; and
- u to provide a vision for the future of this community land.

## 3.2 KEY VALUES AND SIGNIFICANCE

"Values" can be simply described as the things which make a place important. Management objectives must be based on a sound understanding of the resource base and associated values. The following key values have been developed through community consultation (refer to previous section) and further investigation, analysis and assessment. Key values are divided into four categories which form the basis for further discussion in this section as follows:

- Natural and cultural setting
- 2. Indigenous and European cultural heritage
- 3. Environment and biodiversity
- 4. Recreational facilities, access and social values

Table 2: Values and Level of Significance assigns a significance ranking to values based on either a local/ district, regional or state level. Ham Common offers passive and active recreational facilities serving the local/ district levels

(ie. Hawkesbury Districts Tennis Centre, playground, skate park, shared pedestrian/ bikeway, parkland/ corridor and associated facilities).

Ham Common also provides passive recreational, cultural and interpretive facilities for a broader regional visitor catchment. These facilities include the Hawkesbury Visitors Centre, the Botanists' Way signage and associated parkland/ picnic and BBQ areas adjacent to the RAAF Richmond base. The memorial planting and various monuments located throughout the reserve also highlight the regional significance of the location and connections with Australia's aviation history.

Notably, the freshwater wetland (western end) and remnant native stands of River-flat Eucalypt Forest (Alluvial Woodland), including some magnificent old growth specimens, are scheduled as endangered ecological communities (TSC Act 1995) and therefore have regional and state significance.

TABLE 2: VALUES AND LEVEL OF SIGNIFICANCE				
Key Values	Lev	Level of Significance		
	Local	Regional	State	
Natural and cultural setting				
open space & scenic quality		regional		
natural & cultural landscape setting		regional		
Indigenous & European cultural heritage values				
Darug cultural heritage values – traditional resource area	subject to further investigation			
European – aviation history, memorial plantation & monuments		regional		
Environmental and biodiversity values				
endangered ecological communities/ remnant native population			state	
educational/ scientific values		regional		
wetland [modified] - opportunities	local	regional		
Recreational facilities, visitor services, access and social values				
tennis courts/ facilities	local			
public access, circulation & linkages [incl. shared pedestrian/ bike path]	local	regional		
youth facilities [incl. skate park] - opportunities	local	regional		
visitor information services [incl. Visitor Centre & Botanists Way]		regional		
passive recreation – picnic areas/ shelters, playground & landscaping		regional		

Notes: Regional opportunities exist for passive/ cultural and nature-based recreation subject to further promotion of heritage values, natural area/ wetland restoration and improvements to recreational linkages and infrastructure [eg. skate park, health/ fitness stations and arboretum].

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PHOTO 5: Remnant native group of four old growth Broad-leaved Apples [foreground/ mid-ground]/ highly modified habitat (15.09.2008).



PHOTO 6: RAAF monument – commemorates strong links between people of the Hawkesbury and RAAF Base Richmond (15.09.2008).



PHOTO 7: Memorial Drive – commemorative plantation creates a distinctive 'sense of place' beside Windsor Road (15.09.2008).

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PHOTO 8: New monument commemorating national servicemen who served between 1951-1972 (15.09.2008).



PHOTO 9: Old children's plane integrated within new playground – reinforcing links with aviation and RAAF Base (15.09.2008).



PHOTO 10: Botanists Way signage panels in main visitor precinct – Hawkesbury & Blue Mountains World Heritage Area (15.09.2008).

## 3.3 NATURAL & CULTURAL SETTING

#### 3.3.1 CULTURAL OVERLAYS

This flat, linear corridor of open space is defined by a predominantly cultural landscape of mown open lawns interspersed with scattered groups and rows of cultivated trees and shrubs. The road-side commemorative plantation is known as the 'Memorial Drive' (refer to 3.4 Indigenous and European cultural heritage). This park-like setting evolved largely as a result of local community involvement (Apex Club) over a period of approximately 25 years. A rest area for passing motorists was established in 1961and in subsequent years (up to mid-1980s) a range of recreational facilities and infrastructure were added under this community program. There is now a broad range of recreational, cultural and interpretive facilities in the reserve. The type and standard of recreational facilities reflect the various phases of park development and are typical of Hawkesbury's local parks and reserves (refer to 3.6 Recreational facilities, access and social values).

## 3.3.2 ESTABLISHING A 'SENSE OF PLACE'

The community planting program using generic native and exotic/ ornamental trees and shrubs was conceived and implemented by Ross Miller (public workshop, pers.com., 2008). The tree plantations define the reserve's 'sense of place' and commemorative context (memorial drive) through a palette of evergreen and deciduous ornamental exotics and generic native species.

Cultivated native species include a range of Eucalypts (*Eucalyptus* and *Corymbia* spp.), *Melaleuca* spp., *Casuarina* spp. and *Callistemon* spp. sourced from various geographic regions. Exotics include Plane Trees (*Platanus X hybrida*), Pepper Trees (*Schinus areira*), Elms (*Ulmus* spp.), Monterey Pine (*Pinus radiata*), Cypress (*Cupressus* spp.), Purple Flowering Bauhinia (*Bauhinia purpurea*) and Jacaranda (*Jacaranda mimosifolia*). Refer to *Appendix III – Schedule of Existing Ornamental and Weed Species*. Although some of the original River-flat Eucalypt Forest (Alluvial Woodland), has been retained the overall approach has not included the use or integration of local native species and genotypes.

## 3.3.3 NATURAL HERITAGE VALUES

Over the past two hundred years, the reserve's natural landscape of River-flat Eucalypt Forest (Alluvial Woodland), has been largely cleared and modified. The remnant native population, including significant old growth specimens, has outstanding natural heritage, biodiversity and amenity values. This population is considered vulnerable under current management practices. Furthermore, a highly degraded freshwater wetland occurs within a separate

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parcel of land (western end of reserve) (refer to 3.5 Environment and Biodiversity).

#### 3.4 CULTURAL HERITAGE

#### 3.4.1 INDIGENOUS CULTURAL VALUES

Ham Common is a traditional resource area of the Darug Aboriginal people. The Hawkesbury River floodplain, with its mosaic of riparian and wetland habitats, has always been a focus for human communities in terms of their natural resources, social and spiritual significance. The archaeological research conducted within the Hawkesbury – Nepean catchment area has revealed a rich archaeological context.

Ham Common has a long history of disturbance and modification spanning more than 200 years and there is currently no record of archaeological relics or deposits for this site (DECC). Nevertheless, research has confirmed that archaeological lithic assemblages (eg. whole or fragmentary stone artefacts) may be preserved in sub-surface layers even where there has been significant disturbance to the land surface (*McDonald*, 2001). This may have important implications for potential archaeological deposits in Ham Common.

A submission by the Darug Custodian Aboriginal Corporation (DCAC) noted the potential for finding sites of Aboriginal cultural significance on Ham Common. The submission also highlighted the need for investigation of potential archaeological deposits (PAD) and to involve traditional custodians in the protection, management and interpretation (including signage) (Watson, L., DCAC, pers. comm. 2008).

Under the *National Parks and Wildlife Act (1974)* and the *Heritage Act (1977)* all Aboriginal sites, whether recorded or not, are protected. This plan of management encourages a continuing consultative strategy with the traditional Aboriginal custodians (refer to *4.0 Management Strategies, Table 5 – Action Plan: items B1 & B3).* 

#### 3.4.2 LOCAL HISTORIC VALUES

Early European history – establishment and break-up of Ham Common Established in 1803 by Governor King, Ham Common covered an area of over 5000 acres (almost 2000 Ha) of higher ground on the floodplain stretching from the present Castlereagh Road near Richmond to the farms bordering South Creek (not including South Windsor township). During the 19<sup>th</sup> century Ham Common was divided up and significantly reduced in area for various

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purposes including formation of a Glebe, the Blacktown–Richmond railway line (1864), Hawkesbury Racecourse (1868) and Hawkesbury Agricultural College (1892). Much of the land selected for the college was in its natural state with dense stands of woodland growing on relatively poor soils and without access to permanent water (Bowd, D., p.177, 1986).

#### Early aviation history

Ham Common (Clarendon – Richmond) has been described as the "cradle of aviation in Australia" (Bowd, D., p.160, 1986) with many pioneering flights taking place during the early years of the twentieth century. William Hart (1835-1943) was the first person to operate a flying machine from Ham Common, near Clarendon. He was a self-taught pilot who rebuilt his flying machine many times after flying accidents.

Charles Kingsford Smith (1897-1935), a decorated flying ace from WW1, established a base at Ham Common for his aircraft the *Southern Cross*. This was the departure point for many of his long distance flights including the trans-Tasman Sea crossing to New Zealand and overland route to north-western Australia (Bowd, D., pp.168-9, 1986). In 1928 Charles Kingsford Smith landed the *Southern Cross* at the Richmond base after his trans-Pacific flight (<a href="www.airforce.gov.au">www.airforce.gov.au</a>). He was later knighted and in 1935 died in a long-distance flight over Myanmar (Burma) (<a href="www.cultureandrecreation.gov.au">www.cultureandrecreation.gov.au</a>). In 1935 Jean Batten landed at the Richmond base after her solo flight from England.

#### **RAAF Base Richmond**

From 1923-1936 the Air Force base was used as a supplementary airport for Sydney. In 1923 the Commonwealth Government bought most of the northern portion of Ham Common (approximately 69 Ha) including a hangar (Bowd, D., p.171, 1986). The site became the first Air Force base in New South Wales and the second to be established within Australia (<a href="www.airforce.gov.au">www.airforce.gov.au</a>). Ham Common (RAAF Base Richmond) experienced rapid growth during the Interwar Period. In 1925 the first Air Force squadron was formed. With the outbreak of WW2 in 1939 further squadrons were established and in following years the base developed into a major defence site. During the Post-war Period the base housed most of the Air Force's air transport fleet and is now the logistics hub for Australian Defence Forces (<a href="www.airforce.gov.au">www.airforce.gov.au</a>).

These associations with the RAAF Base Richmond and ex-servicemen and women since WWI have been recognized in the monuments, parkland (eg. Friendship Park) and memorial planting within the reserve (eg. Memorial Drive). The road-side reserve offers excellent vantage points for viewing aircraft movements on the RAAF Base and attracts many visitors throughout the year. The new regional playground reflects these important links through conservation and integration of a children's plane (built reinforced concrete

sculpture) believed to have been originally designed and installed during the 1960s.

#### 3.5 ENVIRONMENT & BIODIVERSITY

#### 3.5.1 CLIMATE CHANGE

The Hawkesbury River Valley has a warm temperate climate (ie. summer and winter season). Rain may occur at any time throughout the year. The Bureau of Meteorology has been taking rainfall records at RAAF Base Richmond since 1993. Over this period the lowest and highest annual rainfall has varied between 490mm (2006) to 1051mm (2007).

Generally, the catchment has recorded significant changing rainfall patterns, oscillating between periods of high and low rainfall. Climate change is tending to exacerbate these weather extremes, further affecting flood and drought regimes. Human release of greenhouse gases into the atmosphere has caused, and will continue to cause, global warming for many decades (*IPCC Assessment Report, 2007*).

For New South Wales each decade since 1950 has recorded a 0.15°C increase in annual mean maximum temperature and a 14.3mm decrease in annual rainfall (*Water Information System for the Environment, DECC, 2007*). According to CSIRO modelling our climate will continue to change over coming decades producing a range of impacts including:

- increased risk of drought
- · increased soil erosion and dry land salinity
- · more hot days
- greater bushfire risk.

#### 3.5.2 GEOLOGY & SOIL LANDSCAPES

Ham Common is a fluvial landscape described as Richmond (ri) in "Soil Landscapes of the Penrith 1:100 000 Sheet" (Bannerman and Hazelton, 1990). The Richmond (ri) soil landscape occurs on the higher Quaternary terraces. The soils are typically alluvium consisting of sand, silt and gravels derived from sandstone and shale deposited during periods of flood. The topsoil tends to be reddish brown loamy sand to brown sandy clay loam and varies from moderately acid (pH 5.5) to slightly acid (pH 6.5).

While topsoils are moderately erodible, subsoils tend to have a much higher erodibility due to very low organic matter and a high fine sand and silt content. Richmond (ri) soil landscapes are subject to minor localised flood hazard.

#### 3.5.3 REMNANT NATIVE HABITAT

#### **Endangered ecological communities**

Although largely cleared and modified since the early nineteenth century, Ham Common still retains unique ecological values including two endangered ecological communities. These include freshwater wetlands (albeit highly degraded and modified) and a scattered remnant population of the former River-flat Eucalypt Forest (Alluvial Woodland). Both communities are listed in Part 3, Schedule 1 of the *Threatened Species Conservation Act 1995* and described in the Final Determination of the NSW Scientific Committee as follows:

- Freshwater Wetlands (FW) on coastal floodplains of the NSW North Coast, Sydney Basin and South East Corner bioregions; and
- River-flat Eucalypt Forest (RFEF) on coastal floodplains of the NSW North Coast, Sydney Basin and South East Corner bioregions.

#### Freshwater wetlands

This ecological community is typically associated with periodic or semipermanent inundation by freshwater and occurs on silts, muds or humic loams in depressions, flats, drainage lines, back swamps and lagoons on the coastal floodplain. Freshwater wetlands are dominated by herbaceous plants consisting of sedgelands, reedlands and herbfields with few woody species. This community typically forms mosaics with other floodplain communities such as River-flat Eucalypt Forest. The structure and composition of the community varies both spatially and temporally according to the water regime.

The freshwater wetland in the western paddock (adjoining Richmond town centre) has a long history of disturbance. It is highly degraded, impacted and alienated by transportation links (road and railway), polluted run-off from surrounding urban development and infrastructure, altered drainage/ culverts and piping, dumping and land filling, nutrient enrichment and exotic weed invasion. The land is currently subject to future road works and much of it remains in a derelict state. The wetland is surrounded by mown exotic grasses. Nevertheless, this wetland still provides vital native habitat and opportunities for ecological reconstruction.

The wetland retains a limited suite of persistent native species including Broad-leaved Cumbungi (*Typha orientalis*), Knotty Club-rush (*Isolepis nodosa*), Common Rush (*Juncus usitatus*), Tall Sedge (*Carex appressa*), Lesser Joyweed (*Alternanthera denticulata*) and Scurvy Weed (*Commelina cyanea*). Sweet-scented Pittosporum (*Pittosporum undulatum*) has recolonised drier parts. The number of native species present is likely to be larger. Refer to *Appendix II – Schedule of Existing Native Plant Species*.

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This freshwater wetland should be restored providing opportunities for passive recreation and environmental education (ie. implementation of an appropriate weed management strategy/ restoration planting, construction of a shared boardwalk/ bikepath linking to the existing network and installation of interpretive signage).



PHOTO 11: Western paddock/ natural wetland is highly degraded – opportunities for ecological restoration (03.09.2008).

#### River-flat Eucalypt Forest (Alluvial Woodland)

Alluvial Woodland is now grouped under the broader definition of *River-flat Eucalypt Forest (RFEF)* on coastal floodplains of the NSW North Coast, Sydney Basin and South East Corner bioregions in accordance with the Final Determination of the NSW Scientific Committee (17.12.2004). The remnant native trees occurring in Ham Common are components of the former Riverflat Eucalypt Forest (Alluvial Woodland). Although NPWS (DECC) mapping (1998) identifies a remnant fragmented canopy of Shale Plains Woodland (Cumberland Plain Woodland) in Ham Common, this community description is not consistent with the soil type and floristic composition in this location.

The remnant native trees within Ham Common are likely to be regrowth from early broad-scale clearing. These mature woodland trees have been retained under various park management regimes. It appears that there has been considerable changes to soil profiles, local drainage patterns, moisture levels and nutrient uptake over a long period of time. The trees now occur within a cultural landscape of mown lawns (exotic turf grasses) and mixed plantations of generic native and ornamental exotic species.

The community retained within the reserve has been reduced to a few isolated individual old growth specimens and scattered groups of Broad-leaved Apples (Angophora subvelutina X A. floribunda) and White Feather Honeymyrtle (Melaleuca decora). Many of the Broad-leaved Apples display intermediate

characteristics of *Angophora subvelutina* and *A. floribunda*. Some old growth specimens, particularly the White Feather Honeymyrtles, have achieved a remarkable size and scale. The massive old growth specimen White Feather Honeymyrtle (*Melaleuca decora*), located near the café and main picnic area, would be over 150 years old and possibly 200 years+ in age. Old growth trees have been carefully integrated within the new regional playground providing valuable shade and amenity value. All of these old growth trees provide an exceptional floral display in spring and early summer. They create a distinctive sense of place for the reserve. It is vital that these trees are protected and given opportunities for renewal and regeneration.

The largest groups of remnant woodland trees occur along the southern boundary (mainly within the adjoining railway corridor) and adjacent to the central bitumen car parking area. Notably, these linear stands retain some understorev and groundcover components (including Acacia longifolia, Hardenbergia violacea and Glycine sp.). They offer significant opportunities for natural recruitment and renewal within the reserve under appropriate conservation management practices. The trees also provide a valuable seed source for nursery propagation.



PHOTO 12: White Feather Honeymyrtle (Melaleuca decora) (15.09.2008).

New generic native and exotic plantations have been inter-mixed with groups of Broad-leaved Apples, reducing the visual integrity and significance of natural stands and blurring management boundaries. Local native trees such as Swamp Oak (Casuarina glauca), Prickly-leaved Paperbark (Melaleuca styphelioides) and Melaleuca linariifolia are likely to have been planted.

These remnant native trees, especially the Broad-leaved Apples (Angophora subvelutina X A. floribunda), are under serious threat from various impacts including lawn mowing and edging practices, ongoing nutrient enrichment, compaction of roots, insect attack and disease. Many of these trees are now in serious decline, displaying extensive crown die-back, dead branches, adventitious and epicormic growth. The declining rainfall pattern and prolonged drought appears to have further exacerbated these problems. In addition, mowing and edging extend to bases of all trees and these impacts

need urgent attention. There are no opportunities for ecological renewal and recruitment under the existing management regime. Furthermore, the loss of these trees would greatly diminish important values associated with the reserve – its natural heritage values, landscape character, habitat and biodiversity values, genetic integrity and aesthetics.



PHOTO 13: Massive old growth specimen (*Melaleuca decora*) near café – significant natural heritage values (15.09.2008).



PHOTO 14: Remnant woodland on adjoining railway corridor – park mowing regime restricts natural regeneration. An integrated conservation strategy is needed urgently (15.09.2008).

#### 3.5.4 FUTURE MANAGEMENT OF REMNANT POPULATION

It is important to ensure the protection and conservation management of the remnant native population of old growth trees. The current mowing/ edging regime needs to be revised to better protect the trees and to minimize stress from physical damage and compaction. The under canopy areas should be clearly delineated as separate management zones using protective fencing and signage (public education). These changes will promote opportunities for

natural regeneration, including native understorey species, which may still be present in the soil seed bank. Exotic weeds will need to be managed under an integrated conservation strategy to enhance ecological resilience and long term durability. Initially, natural regeneration should be targeted as the priority action. Dependent upon the outcomes of this strategy, further restoration planting using appropriate species, may be an option over the longer term.

River-flat Eucalypt Forest has no particular tree species occurring frequently across all sample sites. The only remaining canopy and sub-canopy trees on Ham Common are Broad-leaved Apples (Angophora subvelutina X A. floribunda) and White Feather Honeymyrtle (Melaleuca decora). Other typical species may have included Forest Red Gum (Eucalyptus tereticornis) and Cabbage Gum (Eucalyptus amplifolia subsp. amplifolia). There is no current evidence however to support a mixed canopy. Other similar sites on the floodplain should be investigated to establish an appropriate palette.



PHOTO 15: Many remnant Broad-leaved Apples (*Angophora subvelutina X A. floribunda*) are in serious decline – displaying extensive crown die-back, dead wood and epicormic growth. It is important to ensure their long term survival and ecological sustainability through conservation strategies (15.09.2008).

The small tree and shrub stratum has been cleared but may have included species such as Acacia parramattensis, Melaleuca styphelioides, Melaleuca linarifolia, Tristaniopsis laurina, Callistemon salignus, Hymenanthera dentata, Ozothamnus diosmifolium, Trema aspera, Backhousia myrtifolia and Bursaria spinosa. The ground stratum may have included Microlaena stipoides var. stipoides, Lomandra longifolia, Pteridium esculentum, Pratia purpurascens, Desmodium varians, Entolasia marginata and E. stricta, Oplismenus aemulus, Themeda australis, Austrostipa ramosissima, Einadia hastata and E. trigonis, Cayratia clematidea, Adiantum aethiopicum, Doodia aspera and vines such as Eustrephus latifolius, Geitonoplesium cymosum and Clematis aristata.

#### 3.5.5 WEED MANAGEMENT

Ham Common is primarily a cultural landscape of mown lawns and plantations of trees and shrubs (refer to 3.3.2 Establishing a 'sense of place'). These ornamental species have been used to embellish the cultural landscape setting. Generally, the parkland is a well-maintained show-piece in keeping with its regional status and high profile on this busy road. The level of maintenance however tends to be reduced away from the central visitor facilities and nodal activity points. The skate park (near Clarendon) and wetland area (near Richmond) display a much lower level of maintenance input. Weed species are generally controlled except for some clumps of Creeping Bamboo (*Phyllostachys aurea*) and Giant Reed (*Arundo donax*). The latter species is currently being maintained as an ornamental clump with mature seed heads and this program should be reviewed.

Weeds tend to be fast-growing colonizing species with highly aggressive reproductive strategies. The level of weed invasion has a close correlation with past clearing of native vegetation, soil disturbance and the current management regime (ie. highly disturbed/ modified areas with minimal maintenance tend to have high levels of weeds). Exotic weeds, particularly in natural areas, create significant management problems for local councils as they draw scarce resources away from other areas of management.

The freshwater wetlands (western paddock) are particularly impacted by a broad range of weeds. The major woody weeds include Weeping Willow (Salix babylonica) and possibly Crack Willow (Salix fragilis) or a similar hybrid, Camphor Laurel (Cinnamomum camphora), Large-leaved and Small-leaved Privets (Ligustrum lucidum and L. sinense), Wild Olive (Olea europaea subsp. africana), Box Elder (Acer negundo), Green Cestrum (Cestrum parqui) and Blackberry (Rubus fruticosus agg. spp). Other colonising exotics and naturalised garden escapes include Plane Tree (Platanus X hybrida), Pepper Tree (Schinus areira), Jacaranda (Jacaranda mimosifolia), Mulberry (Morus alba), Cottonwood Poplar (Populus deltoides) and Canary Island Date Palm (Phoenix canariensis). Moth Vine (Araujia sericiflora) and Madeira Vine (Anredera cordifolia) are the major vine weed species. Persistent perennials include Paddy's Lucerne (Sida rhombifolia), Paspalum (Paspalum dilatatum) Fennel (Foeniculum vulgare) and Kikuyu Grass (Pennisetum clandestinum).

Some of these weed species have been declared as noxious under the *Noxious Weeds Act 1993* for the control area of Hawkesbury River County Council (refer to *Table 3: Noxious Weed Species – Ham Common*). All declared noxious weed species are to be managed in accordance with the legal requirements for each category. All treatments should be carefully targeted to avoid harm to standing native plants and natural regeneration. Indiscriminate broad-scale chemical applications should be avoided. For a full list of noxious weed declarations for Hawkesbury River County Council (HRCC) refer to: <a href="http://www.dpi.nsw.gov.au/agriculture/noxweed/noxious-app">http://www.dpi.nsw.gov.au/agriculture/noxweed/noxious-app</a>

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TABLE 3: Noxious Weed Species - Ham Common

Weed Description	Class	Legal Requirements
Green Cestrum (Cestrum parqui) Blackberry (Rubus fruticosus agg. spp.) Privet (Broad-leaf) (Ligustrum lucidum) Privet (Narrow-leaf) (Ligustrum sinensis)	3 4 4 4	continuously suppressed control growth & spread control growth & spread control growth & spread
Willows (Salix nigra/ S. fragilis agg. spp.)	5	notifiable weed

The proposed weed management/ wetland restoration strategy aims to:

- develop local community (volunteer) involvement;
- seek funding assistance/ grants; and
- supplement program with contract bush regenerators.

This plan of management supports the establishment of a community-based volunteer group to assist in the rehabilitation of the reserve's freshwater wetland in Richmond. This approach would help to establish a greater sense of community ownership and broader use of this area as well as improving management, monitoring and regulation of waste dumping, littering and antisocial behaviour. A Bushcare program would fit within this volunteer structure. It would need to be coordinated through Council staff. Volunteers are provided with direction and technical advice including training, tools, signage for work sites, rubbish removal, newsletters and use of a community nursery to propagate local native plants. The program is an integral part of managing Hawkesbury City's bushland.

NSW government youth training initiatives and natural heritage grant funding provide further opportunities. Funds should be allocated for contract bush regenerators to develop the program and provide further expertise in weed management and rehabilitation strategies.

The strategy should be structured in accordance with specific site conditions, level of disturbance and weed invasion, relative resilience and integrity of the reserve's ecological communities. It is envisaged that the program of work would initially focus on targeted weed species (including noxious species) using a combination of bush regeneration and restoration strategies. This program should be integrated with proposed improvements to passive recreational infrastructure (ie. boardwalk linkages/ signage and facilities). For areas requiring restoration and enhancement it is important that genetic integrity is maintained with the use of only locally-sourced indigenous species.

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#### 3.6 RECREATION, ACCESS & SOCIAL VALUES

#### 3.6.1 OVERVIEW

Ham Common is a valuable community and regional asset offering a range of passive and active recreational, social and educational opportunities. There are also significant constraints on its land capability and future uses which need to be considered. Inappropriate types of development and uses pose potential threats to existing values. *Sustainability*, a key principle of Hawkesbury City Council's Management Plan, can only be achieved through a balanced and sensitive approach to resource management. Accordingly, future development and management of this community land must ensure careful integration of economic, social and environmental factors.

Recreational values are closely linked with environmental quality and the opportunities provided by the setting. For a detailed description of recreational facilities, improvements and their condition, see *Table 1: Land Description – Existing Facilities & Improvements*. Community consultation highlighted these recreational values, future opportunities and the key issues. These are summarized for discussion as follows:

#### 3.6.2 VISITORS CENTRE, CAFÉ & BICENTENNIAL PARK

Following the initial development phase by local community services (Apex Club), the Hawkesbury Visitors Centre, Café and Bicentennial Park were opened in 1988. These facilities created a regional visitor focus within the reserve and provided opportunities for development of other passive recreational facilities (eg. car parking areas and picnic shelters). The Visitors Centre offers a range of tourism information covering the Hawkesbury Valley and beyond. The café has an outdoor dining area with easy ramped access.

The Hawkesbury Visitors Centre and café are in need of refurbishment and upgrading. The future development of the visitor precinct and enhancement of tourist facilities as a major 'visitor attractor' has been the subject of various government reports and funding applications. In 2006 the Botanists Way/ World Heritage Area (Stage 1) signage panels for the Hawkesbury and Blue Mountains regions were installed as an important visitor initiative (see 3.6.7 Botanists Way Signage).

#### 3.6.3 TENNIS COMPLEX

The Hawkesbury Districts Tennis Centre (Richmond Tennis Complex), located at the western end of the reserve, is a major recreational facility. It is has fourteen all-weather synthetic surface tennis courts, night lighting for all courts, a clubhouse, picnic shelters and easy off-street car parking with 72 car

spaces. The picnic shelters, picnic tables/ seating, outdoor lighting and litter bins are generally well-maintained and in good condition. Some seating however has been vandalised and is in need of repairs.

#### 3.6.4 PUBLIC ACCESS

#### **Shared Pedestrian Pathway/ Cycleway**

A shared concrete pedestrian pathway/ cycleway provides recreational opportunities for the local community and regional visitors. It extends along the entire length of the reserve from the Racecourse Road intersection (Clarendon) to Richmond town centre. It is set back within the reserve and runs parallel with Windsor Road linking all recreational facilities, car parking areas and points of interest. This shared pedestrian pathway/ cycleway is interrupted in only one location – the central car parking/ bus turning area (refer to following discussion in *Car Parking Areas*).

This plan of management proposes upgrading the shared pedestrian pathway/ cycleway to incorporate exercise stations located at strategic locations (refer to 3.6.11 Proposed Exercise Stations). Opportunities exist for dispersal of these activities away from areas of concentrated use (eg. Visitors Centre & Bicentennial Park).

#### **Car Parking Areas**

Vehicular access to off-street (reserve) parking along Windsor Road is provided at a series of strategic points. These car parking areas service specific facilities and points of interest. The major car parking areas include:

- 1. Hawkesbury Districts Tennis Centre (Richmond western end);
- 2. Hawkesbury Visitors Centre/ café and main picnic area;
- 3. central car parking/ bus turning area (rectangular un-delineated);

A small car parking area is located at:

4. skate park (Clarendon)

The condition of car parking areas varies across the reserve. Car parking areas servicing the Hawkesbury Districts Tennis Centre (72 car spaces) and Hawkesbury Visitors Centre (37 car spaces) are constructed in sealed bitumen with line marking for car spaces. Slow-points have been constructed to reduce speed. A row of Mature Plane Trees (*Platanus X hybrida*) and other ornamental trees line the visitor centre car parking area providing valuable shade and amenity. Vehicular entry/ exit points are provided (one way traffic flow). The visitor centre, café, main picnic area/ shelters, Botanists Way display, regional playground and public amenities are easily accessible from this car park.



PHOTO 16: Hawkesbury Visitors Centre, Café & Bicentennial Park (opened in 1988) – main visitor precinct (15.09.2008).



PHOTO 17: Hawkesbury Districts Tennis Centre is a major tennis complex – 14 all-weather courts and range of facilities (15.09.2008).



PHOTO 18: Car parking area adjacent to Hawkesbury Visitors Centre, café & main picnic area (15.09.2008).

Participants at the public workshop identified the need to provide parking and a turning area for tourist buses and vehicles towing caravans. The main visitor car parking area currently has no provision for parking larger vehicles and tour buses. These visitors tend to either park illegally causing safety concerns and congestion or drive in and out again without stopping.

The central rectangular car parking/ bus turning area was installed as a supplementary (overflow) parking area during the 1988 Bicentennial celebrations. Tour buses and over-sized vehicles use this area for turning. This car park is an expansive area, visually obtrusive and a 'heat-island' in summer. The finish is in rough asphalt and car spaces have not been delineated. The car parking area is not directly linked to any park facilities or amenities. It effectively divides the reserve and impacts upon visitor enjoyment and safety, particularly those people using the shared pedestrian pathway/ cycleway.

Heavy vehicles, including large trucks and buses are able to exit Windsor Road via a broad asphalt entry/ exit point at speed (80kmh) creating a potential hazard for park users. Vehicles currently have right-of-way. Pedestrians and cyclists are advised to stop and give-way to vehicles entering the car parking area. Dense shrubs further obstruct sight distances and exacerbate the problem. This plan of management proposes a re-design of the car parking area, improved pedestrian/ cycleway linkages and landscaping to address these issues.

The skate park (Clarendon – eastern end) currently has a small unsealed car parking area accessed via Racecourse Road (near the Windsor Road intersection). This car parking area and skate park facility need to be upgraded and integrated within the reserve as a key youth facility (refer to 3.6.13 Skate Park).



PHOTO 19: Expansive central car parking/ bus turning area impacts upon safe flow of pedestrians/ cyclists in reserve (15.09.2008).

#### 3.6.5 PASSIVE RECREATIONAL FACILITIES

#### Provision of facilities and rationalization

At various stages, dependent upon funding, facilities have been added to the reserve. This process however has encouraged a typically ad hoc approach to selection and installation of facilities, often 'filling up' open spaces with a wide range of types and varying quality of outdoor furniture and finishes (ie. picnic shelters/ shade structures, picnic tables/ seating, gas BBQ facilities, litter bins, signage, monuments, paving and landscaping).

Whilst it is important to upgrade ageing passive recreational infrastructure care needs to be taken in integrating these facilities to enhance the overall landscape character and setting. Some ageing infrastructure such as tables/ seating, bench seating, litter bins, bollards, fencing and landscape features should be removed. Opportunities exist for further rationalization of facilities including combined picnic shelters with tables/ seating and gas BBQs.

#### **Accessibility**

The needs of people with disabilities and parents with young children also need to be addressed. Although many visitors will drive or walk to the reserve, accessibility may involve the use of strollers, prams, walking frames and/ or wheelchairs. The reserve's main picnic area, with its level car parking area, all-weather picnic shelters and public amenities, is a popular destination for elderly people and groups of people with disabilities. It is important to maintain safe, easy access to existing facilities and amenities.

#### Mounded water feature

Embellishments such as the mounded water feature, fountain and associated landscaping near the main picnic area raise issues over the cost of continuing maintenance, refurbishment or removal. The water feature was constructed in the mid-1980s and included a small pond, reticulated water system/ pump and audio devices which are no longer functional. The water feature is an ageing curiosity with various paving/ flagging detail typical of this period. The raised garden beds have been recently renovated with new planting.

Participants at the public workshop suggested various options including refurbishment using a solar pump, possible removal or adaptive re-use possibly as an elevated viewing area opposite the RAAF Base Richmond. Sustainability, water conservation issues and allocation of valuable resources need to be considered. It remains doubtful whether the cost of constructing a new 'folly' (ie. lookout/ observation deck) in order to utilize the low mounded area can be justified when excellent views of the RAAF Base are already available throughout the reserve.

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#### 3.6.6 MONUMENTS

Concerns have been raised over ongoing requests for additional monuments/ memorials and similar embellishment of the reserve. Whilst the location is significant in terms of its cultural heritage values, these installations have the potential to create an undesirable level of clutter within the reserve's open spaces and further additions should be restricted.

#### 3.6.7 BOTANISTS WAY SIGNAGE PANELS

In 2006 federal funding was made available for installation of Stage 1 – Botanists Way/ World Heritage Area signage panels for the Hawkesbury and Blue Mountains regions. The Botanists Way signage is an important visitor initiative which highlights the Hawkesbury Valley as the gateway to the region's World Heritage Area, particularly its Indigenous and cultural heritage and botanic diversity. This display offers broadly accessible graphic and detailed information for visitors to plan their journey.

#### 3.6.8 PROPOSED GEORGE CALEY ARBORETUM

Implementation of Stage 2 – George Caley Arboretum is subject to further federal government funding. The arboretum is proposed as a complimentary element (supporting the Botanists Way display) focusing on the native plants of the Hawkesbury Valley and Blue Mountains World Heritage Area.

#### 3.6.9 REGIONAL CHILDREN'S PLAYGROUND

The new regional children's playground is a high quality and popular facility with local families. It provides an integrated play experience targeting the 0-5 year (pre-school) age group. A range of play equipment, soft fall areas, picnic shelters/ seating and shade trees are provided within a fenced area. The playground is directly linked to the shared pedestrian pathway/ bikepath, main car parking area, public amenities and other park facilities.

The children's concrete plane, an interactive sculpture is well integrated in the playground. The plane is an important heritage item reinforcing the close associations with the RAAF Base Richmond (adjacent). It is believed that a Council worker may have designed and built the original structure in the 1960s. A story-book plaque with acknowledgement of the sculptor, date and brief history should be added.

The playground has a generally high level of maintenance and presentation however soft landscaped areas need attention and possible rationalization, particularly with respect to plant selection and protection in high traffic areas.

#### 3.6.10 REGULATORY, ADVISORY & DIRECTIONAL SIGNAGE

The number of different types of regulatory, advisory and directional signs around entry points and car parking areas creates a confusing array of information and visual pollution in the main visitor precinct. These signs are

highly intrusive and have a negative visual impact upon the passive recreational setting. Reserve signage needs to be reviewed. It should aim to present a more consistent integrated approach.

#### 3.6.11 PROPOSED EXERCISE STATIONS

A large number of people use the reserve for exercise and fitness purposes including walking, jogging, cycling and walking the dog. The community workshop identified the recreational need for developing a series of exercise stations. The flat, linear nature of the reserve lends itself to this purpose. This fitness equipment should be installed along the shared pedestrian pathway/ cycleway (off-set out of the flow) and integrated at strategic points to enhance the visitor experience. The proposed exercise stations provide opportunities for dispersal of concentrated visitor loadings and enhancement of sections of parkland with limited nodal activities and facilities.

#### 3.6.12 PROPOSED LIGHTING

The community workshop identified the need for improved security and ambient lighting along the shared pedestrian/ cycleway, particularly within major nodal areas with recreational facilities.

Any future upgrading of the skate park facility should also consider the use of sports field type lighting with banks of metal halide fixtures on large vandal-resistant poles. This would create a high level of visual surveillance and security in this location, better opportunities for passing police surveillance and may help to reduce the level of vandalism and anti-social behaviour.

#### 3.6.13 PROPOSED UPGRADING OF SKATE PARK FACILITY

Participants at the public workshop described the skate park and surrounds as looking very poor and in a state of neglect. Concerns were raised over the lack of community ownership and control and the message being delivered to visitors. The space is not considered to be 'family-friendly'. This skate park, located at the eastern end of Ham Common near Clarendon Station (Racecourse Road), is effectively the gateway to Richmond along Windsor Road. The location is used for community banners and events information.

The facility is relatively small and offers only a limited range of opportunities and skill level. It suffers from isolation and alienation from other park activities and recreational facilities. The surrounding dense mass planting (eg. Swamp Oaks) tends to hide and further isolate the area from public view. The ramps/jumps and platforms have a large amount of graffiti. Signage, bins, bollards and fencing have been vandalized. The adjoining car parking area has not been sealed like other car parks in the reserve. There are lots of potholes. It has an unkempt appearance and vehicular barriers have been vandalized allowing uncontrolled vehicular movement into the reserve.

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PHOTO 20: New picnic shelter near playground. Opportunities exist for further upgrading including gas BBQs (15.09.2008).



PHOTO 21: The enclosed children's playground offers a range of play equipment, soft fall areas and tables/ seating (15.09.2008).



PHOTO 22: The skate park facility needs better integration with other facilities and an improved range of opportunities (15.09.2008).

The workshop was mainly concerned with the lack of maintenance and repairs, late-night use/ anti-social behaviour, extensive graffiti to structures and signage, build-up of unsightly rubbish, large amounts of broken glass and potential for accidents. These issues however need further discussion within a broader community forum, particularly involving local schools and youth. Local youth did not attend the workshop.

Negative attitudes towards youth and their needs for recreational spaces tend to foster negative youth behaviour. The problems are exacerbated in places which are allowed to become marginalized or isolated from other community activities. These user groups have a need for places to meet and to practice and improve skill levels in a range of activities. This plan of management supports broader opportunities for youth including the following:

- user groups and youth workers involvement in re-design of skate park facility and ongoing maintenance;
- seeking government grant assistance for upgrading facility;
- upgrading/ or extension of facility (incl. areas for specialized skill levels and multi-use areas);
- improved public interface to roadway/ higher visibility;
- regular (weekly) maintenance by Council;
- · security lighting/ cameras; and
- improved regulatory control/ policing and reporting of unauthorised activities;
- opportunities to enhance this important 'gateway point' for visitors.

#### 3.6.14 EVENTS MANAGEMENT

The reserve also offers opportunities for promotion of special community events (eg. art and sculpture/ artist's displays, music, food and market days) which could be set up along the shared pedestrian pathway/ bikepath.

#### 3.6.15 WEDDINGS AND BOOKINGS

Bookings for weddings may offer a potential source of funding for future park upgrades. The proposal for the George Caley Arboretum (Stage 2) could provide an outstanding landscape setting which would be suitable for weddings and other functions. The cost of ongoing garden maintenance would need to be considered.

#### 3.6.16 COMPANION ANIMAL ISSUES

Walking dogs in the reserve is one of the more popular local pastimes. Dogs need to be kept on leash at all times. The installation of dog waste bins (including possible sponsored supply of dog faeces bags) should be considered.

#### 3.7 MANAGING RECREATIONAL VALUES

While upgrading facilities would be desirable as part of a broader program of maintenance and replacement, it is important to ensure that existing identified values are retained and protected. The upgrading of recreational facilities may increase potential negative impacts such as greater visitor numbers, increased traffic volumes, parking and congestion issues, perceived crowding in picnic areas and dissatisfaction with the overall experience.

The potential also exists for increased natural resource impacts through increased visitor loadings (eg. need for additional picnic shelters and BBQs, more car parking areas and paved areas, less open space, loss of old growth trees, etc.). Over time these creeping or incremental changes may gradually lead to natural resource degradation, loss of cultural and scenic values and reduce experiential qualities for park visitors. An understanding of this process has important implications for future management.

It is essential that all environmental and social impacts are managed on a sustainable basis. This section of the plan of management has defined Ham Common's key values and established objective limits on the types and amounts of change that are either desirable or acceptable. Accordingly, visitor and site management strategies should focus on the following objectives:-

- maintain and promote long term sustainability of the parkland as a limited and finite resource;
- promote dispersal of visitor loadings within the most durable locations and protect sensitive ecological areas;
- protect and manage the reserve's natural, Indigenous and cultural heritage values;
- promote opportunities for further investigation of Indigenous heritage and involvement of traditional custodians;
- provide enhanced protection and restoration of sensitive ecological areas (ie. endangered ecological communities) and remnant old growth trees;
- continue to enhance visitor experience and opportunities for education and interpretation of the region's heritage values;
- promote safe, easy access to the parkland and its recreational facilities and address traffic management issues;
- continue to enhance and upgrade existing recreational facilities and linkages having regard for public safety and security;
- promote opportunities and broader integration of youth facilities.

In establishing limits of desirable or acceptable change, this plan of management provides a framework for the reserve's future management.

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#### 3.8 VISION STATEMENT

The following statement provides a vision for Ham Common which forms the basis for the following management strategies:-

"To ensure appropriate protection, sustainable management and enhancement of the reserve's natural and cultural setting, its rich heritage, environmental and recreational values in accordance with the objectives of community land management for the benefit of the broader community and for future generations".

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#### 4.0 MANAGEMENT STRATEGIES

#### 4.1 OBJECTIVES

This section of the plan of management addresses the following objectives:

- to establish core objectives for each of the community land categories;
- □ to develop an action plan for implementation of core objectives and management strategies (ie. desired outcomes);
- □ to develop performance targets to assess and monitor strategies;
- □ to assign directions and priorities (spanning the next 5-years);
- □ to address future leases and licences; and
- u to develop a master plan for implementation of the strategic plan.

#### 4.2 COMMUNITY LAND - CORE OBJECTIVES

In accordance with the *Local Government Act 1993*, each category and subcategory are provided with a set of core objectives. Refer to *Table 4:* Schedule of Core Objectives.

#### 4.3 ACTION PLAN

The following Action Plan (refer to *Table 5: Action Plan – Sheets 1-7*) is divided into four separate sections based on desired outcomes and core objectives for this community land (see column 1). Each section includes the following:

- performance targets or management objectives (column 2);
- item or reference number (column 3);
- means of achievement or management actions (column 4);
- means of assessment of the actions (column 5);
- priority ranking for each management action (column 6).

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#### Desired Outcomes (column 1)

The sections are divided into the following headings in accordance with the desired outcomes and core objectives as shown:-

### 1. Community land management – development, land uses, activities, leases, licences and other estate

To establish an appropriate management framework and guidelines for assessing development, land uses, activities, leases, licences and other estate in compliance with requirements for community land categorised as natural area – wetland, park, sportsground and general community use.

#### 2. Indigenous and cultural heritage

To protect, manage and promote understanding and interpretation of Aboriginal and Non-Aboriginal cultural heritage values.

#### 3. Environment/ biodiversity

To protect, manage and enhance environmental quality, scenic character and biodiversity values.

#### 4. Recreation, facilities and access

To maintain and enhance existing sporting and community facilities and to improve public access, linkages and opportunities for passive recreation.

#### Performance targets (column 2)

The desired outcomes and core objectives (refer to 1.5 Community Land Categorisation and 4.2 Community land – Core objectives) have guided the development of performance targets in the Action Plan.

#### Management actions/ item no. (columns 3 and 4)

The performance targets or management objectives provide the framework for developing specific *management actions* or the *means of achievement*. Each action is assigned an item number based on the relevant section (eg. Sec. 1: A1 to A9, followed by Sec. 2: B1 to B4, etc.).

#### Performance measures (column 5)

The Action Plan establishes a system of checks and balances to assess actions in relation to performance (ie. *means of assessment*).

#### **Priorities**

Priorities for each management action are assigned according to relative importance – very high, high, medium and low. It is envisaged that actions will be addressed on a priority basis, by the Policy and Services Unit responsible, and in accordance with the means of assessment as follows:

VERY HIGH = 1 year

HIGH = 1-2 years

MEDIUM = 3-4 years

LOW = up to 5 years

#### 4.4 CAPITAL WORKS PROGRAM

Priorities and cost estimates are further developed in the 5-year capital works program (refer to *Table 6: Capital Works Program*). The Opinion of Probable Landscape Construction Costs is based on the Landscape Masterplan and is indicative only.

#### 4.5 LANDSCAPE MASTERPLAN

The Landscape Masterplan (refer to *Figure 4: Landscape Masterplan*) identifies key management actions to be implemented throughout the 5-year capital works program, subject to available funding.

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# TABLE 4 SCHEDULE OF CORE OBJECTIVES

### TABLE 5 ACTION PLAN

	Sec. of	(Management Actions)	(of the actions)	The State
Desired Outcome: To establish an appropriate ma Core Objectives: Management of community land	nanageme d categor	Desired Outcome: To establish an appropriate management framework and guidelines for assessing development, land uses, activities, leases, licences and other estate. Core Objectives: Management of community land categorised as natural area: wetland (36K), park (36G), sportsground (36F) and general community use (36I).	es, licences and other estate. nmunity use (36l).	
Guiding legislation: To ensure the reserve's planning and management	Ą	Implement actions identified in this Plan of Management in accordance with Local	Adoption of plan of management.	high
are in accordance with relevant legislation and policy.	47	Government Act 1993 and all other relevant legislation and policy.  Development proposale land uses anti-titles legace liganes and management provides	Level of implementation over 5-years.	caiocac
To ensure consistency with community land	ž	must be consistent with the following requirements:	address and adhere to development guidelines.	Silo Silo
categories and core objectives for natural area - wetland, park, sportsground & general community use.		<ul> <li>demonstrate consistency with community land core objectives</li> <li>protect and enhance natural/ cultural setting, scenic quality, biodiversity, Aboriginal,</li> </ul>	Measure trends over time.	
To protect the reserve's natural/ cultural setting		and cultural heritage values and promote environmental sustainability.		
and all identified values from inappropriate uses, activities and development.		<ul> <li>address nood planning, public safety and risk management issues;</li> <li>profect and restore remnant habitat/ old growth trees and bio-linkages;</li> </ul>		
		<ul> <li>promote balanced, sustainable management of recreational infrastructure;</li> </ul>		
		<ul> <li>continue to maintain and upgrade community, sporting and youth facilities;</li> </ul>		
TVA		<ul> <li>restrict inappropriate uses and activities, particularly high impact activities;</li> </ul>		
		<ul> <li>contribute to diversity and quality of recreational and community uses;</li> </ul>		
		<ul> <li>adequately provide for public access, equity and broad community use;</li> </ul>		
		<ul> <li>promote a safe environment for pedestrians and cyclists;</li> </ul>		
		<ul> <li>improve traffic management, circulation and parking;</li> </ul>		
To improve visitor education and interpretal		<ul> <li>facilitate programs in community education and interpretation of identified values;</li> </ul>		
To ensure that development proposals will	A3	Development proposals which may directly or indirectly threaten the natural/ cultural	as above	ongoing
		setting, scenic, heritage and/ or biodiversity values are not permissible.		
	A4	Proposed development, activities and uses must be consistent with threatened species	Number and % of proposed developments that	ongoing
threatened species and populations.		legislation - Threatened Species Conservation Act 1895 and Environment Protection and Biodiversity Conservation Act 1999.	address and adhere to development guidelines.	
To permit the use of the land for sustainable	A5	This Plan of Management expressly authorises the development of existing and	Proposed staged development/ capital works items	ongoing
development of appropriate recreational and		proposed community and recreational facilities [see Figure 4: Landscape Masterplan]	completed subject to available funding and priorities.	
community facilities.		subject to compliance with core objectives for the community land category and development guidelines [see items A2-A4 and D1-D18].		
Leases, licences and other estate:	A6	This Plan of Management expressly authorises the granting of leases, licences or other	Leases/ licences granted in accordance with Local	ongoing
To provide express authorisation for appropriate		estate over the community land for the purposes of providing goods, services	Government Act 1993 and this Plan of Management.	
leases, licences or other estate over community land.		and facilities, and the carrying out of activities, appropriate to current and future needs	Assess against Council policies, principles and permitted	
To ensure consistency with relevant legislation		within the local community and of the wider public in relation to any of the following:	uses consistent with community land categories and	
affecting the uses and activities on community land.		<ul> <li>public recreation, social and educational activities;</li> </ul>	core objectives.	
To permit the granting of leases, licences or other		<ul> <li>the physical, cultural, social and intellectual welfare or development of persons; and</li> </ul>		
estate which are consistent with community needs		<ul> <li>only if the purpose for which it is granted is consistent with the core objectives of</li> </ul>		
and the community land core objectives.		its categorisation.		

appropriate management framework and guidelines for assessing development, land uses, activities, leases, licences and other estate.  Any This Plan of Management expressly authorises the granting of a lease or licence over confirming late and or licences grants are confirmed and this Plan of Management expressly authorises the granting of a lease or licence over relevant legislation and this Plan or other confirming late and or licences are licences and or licences and or licences are licences are licences and or licences are licences are licences and or licences are licences and or licences are licences and or licences are lice	L ã.	agement fram ategorised as
Sgro	stural area: wetland (36K),	THE PROPERTY OF THE PROPERTY O
or if	in of Management expressly in nity land categorised as sport wing uses and activities subju- ment guidelines: wkesbury Districts Tennis Cer	This Plan of Management expressly authorises the granting of a lease or licence community land calegorised as sportsground (1) and general community use (2) the following uses and activities subject to compliance with core objectives and development guidelines:  (1) Hakkesbury Districts Tennis Centre (Richmond Tennis Complex); and
7 of th artes ocal (ocal or others adj	are now, quality and date and a community of the communit	AB In coordance with Prit. Div. 3 (2.117 of the Local Government (General) Regulation 2005, leases, licences and other estates granted for the following purposes are exempt from the provisions of s.47A of the Local Government Act 1993:  (1) the provision of pipes, condular or other connections under the surface of the ground for the connection of premises adjoining the community land to a facility of the council or other public utility provider that is situated on the community land;  (2) use and occupation of the community land for events such as:
it, or it, or it, or aphic land does	blic performance (i.e. a theatin sement of the public); applying of a musical instrumen- ging in a trade or business; og of any lawful game or spo- nering a commercial photogra- ca and private celebrations is on occupation of community only if the use or occupation only if the use or occupation on the reason of a one of a power and in the reason occupation of the reason occupation of community only if the use or occupation of the reason occupation occupat	<ul> <li>a public performance (le. a theatrical, musical or other entertainment for amusement of the public);</li> <li>the playing of a musical instrument, or singing for a fee or reward;</li> <li>engaging in a trade or business;</li> <li>playing of any lawful game or sport;</li> <li>delivering a public address;</li> <li>conducting a commercial photographic session;</li> <li>picnics and private celebrations such as weddings and family gatherings;</li> <li>filming.</li> <li>The use or occupation of community land for such short term or casual events listed is exempt only if the use or occupation does not involve the erection of any building or structure of a narmaneant nature.</li> </ul>
ovidi ovidi sew sew ated ated trwi	an of Management expressly a nity land for the purpose of private according water, and with land to an existing water, undir provider that is situ munity land must be consistent se and the development quide	The pan of Management expressly authorises the granting of essements over the community land for the purpose of providing pipes, conduit or other connections under the surface of the ground. This is limited to easements that connect land adjoining community land to an existing water, sewer, drainage or electrical facility of council or other public utility provider that is situated on community land rate granting of easements on community land must be consistent with community land categories, their core objectives and the development guidelines in this Plan of Management.

Friority	very high richaeological eworks.	emented		
means or Assessment (of the actions)	ues. mmunity use (36)). Investigations undertaken and recommendations implemented for protection and management of archaeological sites and refics prior to commencement of any siteworks.	Research undertaken and recommendations implemented		Local Aboriginal and cultural heritage integrated with existing and proposed regional facilities. Interpretive signage developed and installed.
means or Acnievement (Management Actions)	ge and promote understanding and interpretation of Aboriginal and Non-Aboriginal cultural heritage values.  mmunity land categorised as natural area: wetland (36K), park (36G), sportsground (36F) and general community use (36), and B1 Investigations under traditional Aboriginal custodians, conduct investigations and research of potential Aboriginal and archaeological heritage within the reserve.  Archaeological sites and pelcs and potential archaeological deposits (PAD) are to be sites and relics p	properly protected and managed in accordance with relevant legislation.  Confine to research and expand upon the community sunderstanding of the reserve's local history (le. associations with early European settlement in the area, pioneering aviation history, development of the RAAF Base Richmond and service during wars.	Ensure that any additional educational and interpretive signage identifies the Aboriginal	and cultural heritage associated with this site. Integrate the Botanists Way signage panels and proposed George Caley Artboretum (e. regional facilities) with the site's local history (i.e. party aviation, monuments memorial relations and children's sclane).
nderstanding a egorised as nat	In consul research Archaeol			local hist
	tigation and B1 ss and relics spropriate	ation of the site's B2 associated with	educational/ B3 nd memorials. d understanding	BA BA
	Desired Outcome: To protect, manage a Core Objectives; Management of comming To promote further research, investigation and interpretation of archaeological sites and relics within the reserve and to ensure appropriate	protection and management.  To promote research and interpretation of the site's cultural heritage and social values associated with early aviation.	To enhance integration of existing educational/ interpretive signage, monuments and memorials, To improve visitor interpretiation and understanding of the local precinct and renoral heritane values	To protect visual quality and integrity of

PERSONAL PROPERTY.	NAME AND POST OF THE PARTY OF T	-			
	Desired Outcome: To protect, manage and enhand Core Objectives: Management of community land	ce enviro categori	Desired Outcome: To protect, manage and enhance environmental quality, scenic character and biodiversity values. Core Objectives: Management of community land categorised as natural area: wetland (38K), park (36G), sportsground (36F) and general community use (36f).	mmunity use (36I).	
	Weed management restoration [cont'd]:	જ	Continue to identify, monitor and restrict the impact of key threatening processes	No. of targeted/ funded programs and results.	very high
	lo address key threatening processes.		[le. exotic weed invasion, clearing/ mowing [around remnant old growth trees].	Measure trends over time.	ongoing
	To secure and consolidate habitat values,	8	Selectively target and control noxious and environmental weeds in conjunction with	Level of funding per annum linked to positive net gains.	high
	Do-linkages and burrers.  To address current issues affection the integrity.		staged restoration and enhancement strategies in the following priority larget areas:  1. remnant wetland livestern paddock near Richmond foun pantral; and	Areal % of Wetland under restoration [over 5 years].	ongoing
	resilience and durability of native vegetation.		<ol> <li>remnant native population find: stands of old growth trees!</li> </ol>		
	To target noxious and environmental aquatic	C2	Monitor and control noxious aquatic and semi-aquatic weeds in accordance with the	Noxious aquatic and semi-aquatic weeds	high
W	and semi-aquatic weed species in the wetland.		Noxious Weeds Act 1993. Eradicate Crack Willows (Salix nigra/ S. fragilis agg.spp.)	controlled in accordance with legislation.	ongoing
	To protect existing native wetland species.		within the wetland. Continue to monitor and target all open water aquatic weeds.	Measure trends over time.	)
K:			Avoid the use of non-selective spraying applications of herbicides [over-spray] and		
IIS			broad-scale removal/ slashing and mowing of wetland species.		
12	To clearly identify and provide protective	8	Clearly delineate management zones [ie. wetland and remnant stands of native woodland	Area under bush regeneration/ restoration per annum.	very high
AL	measures for fragile natural areas under bush		under regeneration/ restoration strategy], Install protective fencing and signage to identify	Measure trends over time.	ongoing
ne	regeneration/ restoration.		and protect fragile natural areas from inappropriate maintenance/ mowing regimes,		
ıcı			trampling and compaction. Establish opportunities for natural recruitment/ regeneration.		
n	To establish viable natural areas and to promote	ප	Use a minimal disturbance bush regeneration approach where positive net gains are	as above	very high
III2	long-term sustainability.		achievable [ie. relatively high level of resilience]. Monitor and review outcomes.	Measure trends over time.	ongoing
11			Ensure dependent and threatened species habitat is protected and enhanced.		
ıa	To secure genetic integrity as a key component	69	Establish restoration, enhancement and reinstatement strategies for areas which	Area under restoration/ enhancement strategy per annum.	very high
1111	of the restoration and enhancement strategy.		display a high level of soil disturbance, modification and/ or a low level of natural	Measure trends over time.	ongoing
10	To establish a representative level of species		regeneration. Use local native, provenance-sourced species in the program [ie. local		
114	and structural diversity.		genotypes]. Ensure that existing site soils are not amended and that soils or mulches		
ue			are not imported for use in these strategies, including translocation or use of ex situ- soil revelles and each banks		
00	To promote partnerships with state government	113	Seek grant funding for the weed management and restoration strategy from various State	Level of funding per annum linked to positive net gains.	very high
	agencies, industry and local land holders to		and Federal government sources [eg. Natural Heritage Fund, Hawkesbury Nepean	Measure trends over time.	ongoing
	secure sustainable environmental outcomes.		CMA, HRCC, Metropolitan Greenspace, etc].		,
	To ensure a high level of expertise in	C12	Establish a program using skilled contract labour [ie. qualified and experienced contract	Level of funding for contract bush regeneration per annum.	high
	implementing the strategy.		bush regenerators] to implement the wetland restoration strategy.	Annual/ quarterly progress reports.	ongoing
	To involve local volunteers in weed management	C13	Seek to establish a volunteer BushCare group as a key strategy of the program to	Numbers of volunteers/ groups actively involved in the	high
	and stewardship in restoring the wetland.		assist in weed management/ restoration, rubbish removal, monitoring unauthorised	environmental program. Measure trends over time.	ongoing
			activities and community education in appropriate visitor behaviour.		
	To provide appropriate assistance and support	C14	Provide assistance and support in grant applications by volunteer groups. Ensure that	Number of applications per annum. Measure success rate.	high
	for community volunteers.		volunteers are adequately supported and monitored [eg. leadership/ education, supply	Annual/ quarterly progress reports.	ongoing
			of materials, staging, removal of stockpiled weeds, etc].		

Performance Larget (Management objectives)	Item	Means of Achievement (Management Actions)	Means of Assessment (of the actions)	rnonty
Desired Outcome: To protect, manage and enh. Core Objectives: Management of community la	ince envi	Desired Outcome: To protect, manage and enhance environmental quality, scenic character and biodiversity values. Core Objectives: Management of community land categorised as natural area: wetland (36K), park (36G), sportsground (36F) and general community use (36I).	amunity use (361).	
Protect natural cultural setting: To protect and manage existing natural/cultural setting and to ensure that additional planting is consistent with restoration strategy.	C15	Ensure that future landscaping [incl. additional native planting] is consistent with weed management/restoration strategy [see items C3-C14]. Additional planting should reinforce the existing natural cultural setting and provide shade, enhanced visual quality, habitat and bio-linkages as well as supporting passive recreational opportunities. Reduce the denomence on namice rathie stracks [in use of non-local genotynes.]	Works implemented in accordance with this Plan. Number and species of trees! groundcovers planted and survive after 5 years.	ongoing
To maintain a quality landscape setting. To address security and public safety issues.	616	Provide a maintenance regime which affords a high level of passive surveillance and security for visitors and protects important sight-lines (e. near car parking areas, vehicular entry exit points, stated pedestriate fully level to increase, areasi, are activities and children's objectional. Under-crune or remove dense shrub diarting in these locations.	Works implemented in accordance with this Plan. Visitor safety and security issues addressed.	ongoing
To investigate options for restoring biodiversity within the reserve.	C17	Investigate options for restoration and management of open low-lying grassed swales lie. dry wetland areas] in section of reserve west of central parking area [see item D7].	Investigation completed and recommendations implemented subject to available funding.	medium
Public safety/ emergency services: To address flood planning, public safety and risk management.	C18	Ensure that flood planning, management and provision of public access and recreational infrastructure are consistent with relevant strategies and plans.	Planning and procedures implemented in accordance with relevant plans.	ongoing
Desired Outcome: To maintain and enhance ex Core Objectives: Management of community la	sting spo nd catego	To maintain and enhance existing sporting and community facilities and to improve public access, linkages and opportunities for passive recreation. anagement of community land categorised as natural area: wetland (36K), park (36G), sportsground (36F) and general community use (36I).	ities for passive recreation. nmunity use (361).	
Visitors Central Café & Bicentennial Park To upgrade existing visitor centre, café & associated lacilities and amenities. To address need for regional visitor facilities.	2	Continue to seek government grant funding for a future upgrade of this building and associated facilities as a regional visitor attractor, including building extension and refurbshment of tourist information area, calls foxek, outdoor countyard landscaping. Integrate these facilities with adjoining picnic area, are parking area, playground, public annealines, Belanist Way signage and proposed George Caley Arboretum.	Works implemented in accordance with this Plan of Management and subject to available funding.	hgh
Hawkesbury Districts Tennis Centre:  To maintain and upgrade tennis complex, clubhouse and passive recreational facilities.  To promote the tennis complex as a broadly asset consistile community asset.	03	Continue to maintain and upgrade tennis complex [incl. 14 No. all-weather synthetic surface courts, fighting to all courts, clubhouse, picnic shelters, picnic tables/ seating, benches and fittler bins). Ensure that all facilities and equipment are maintained in accordance with relevant building and safety standards. Maintain mown lawn areas and gardens around facilities.	Facilities maintained in accordance with regular monitoring procedures, building and safety standards. Maintenance in accordance with service standards.	high ongoing
Shared pedestrian pathway/ bikepath: To enhance regional opportunities for public access and connectivity. A cohonor multi-issa inhance and access	D3	Continue to maintain and upgrade existing shared concrete pedestrian pathway/ bikepath which extends along the entire length of the reserve. Ensure linkages are provided with upgarding of all recreational facilities. The following areas need to be addressed in order of priority:	Maintenance in accordance with service standards.	high ongoing
to a range of facilities within the reserve.  To improve visitor safety and to address		<ol> <li>Central car parking/ turning area: re-align pathway/ bikepath to avoid conflict point with vehicular traffic. Remove shrubs blocking sight lines [see item D7];</li> </ol>	Works implemented in accordance with this Plan of Management and subject to available funding.	very high
traffic management issues.  To provide conortunities for access to		(2) Proposed 'gateway' and skate park facility upgrade: connection and integration with proposed regional facility and upgraded car parking area.	as above	high
sensitive wetland areas and to enhance		(3) Proposed wetland boardwalk [following restoration of western paddock/ wetland]:	as above	medium

Priority		very high	ongoing	high	high	high	ongoing
Means of Assessment (of the actions)	nities for passive recreation. mmunity use (36),	Works implemented in accordance with this Plan of Management and subject to available funding.	Maintenance in accordance with service standards.	Investigation completed and recommendations implemented subject to available funding.	Works implemented in accordance with this Plan of Management and subject to available funding.	Works implemented in accordance with this Plan of Management and subject to available funding.	Maintenance in accordance with service standards.  Proposed staged development/ capital works items completed subject to appropriate funding.
Means of Achievement (Management Actions)	Desired Outcome: To maintain and enhance existing sporting and community facilities and to improve public access, linkages and opportunities for passive recreation. Core Objectives: Management of community land categorised as natural area: wetland (36K), park (36G), sportsground (36F) and general community use (36I).	Install a series of exercise stations along the shared pedestrian pathway/ bikepath [ie. durable and functional fifness equipment] located at strategic points between the tennis complex and central car parking/ turning area [ie. away from main picnic facilities/ visitor information].	Continue to maintiain existing sealed bitumen car parking areas [incl. line marking of bays car spaces, slow-point treatments, speed limits and traffic (lows).  (1) Hawkesbury Districts Tennis Centre (Richmond - western end); and (2) Hawkesbury Visitors Centre/ Cale, Botanists Way & main picin erea.	Investigate options to provide lay-by parking [short stay] for tour buses and cars towing caravans in main car parking area [Visitors Centre] to provide improved access to visitor information and public amenities.	Modify existing layout and reduce scale of central overflow car parking/ bus turning area installed during Bbeanlennia obebations.  reduce size of asphalt hardsland (ensure provision for large vehicle/ bus turning);  - narrow entry/ exit point and separate traffic flows to reduce speed;  - provide a finished bitumen seal to smaller car parking area;  - delineate car spaces (lim enantring), installer car parking area;  - delineate car spaces (lim enantring), installes (sw.point treatments/ speed limit, inner evehicular berires/ bollards and security lighting;  - provide longer stay lay-by parking for tour buses and or vehicles towing caravars;  - relocate shared pedestrian pathway/ bikepath away from vehicular entry/ exit point it, provide as allemate routel).  - remove dense shrub planting near car park entry exit point and establish clustered native tree planting within car parking bays and along pathway [see items C15-16];  - establish management zones for protection and recruitment of remnant native tree population along southern edge of car park [River-flat Eucalypt Forest-see item C8];  - investigate options for enhancement of adjoining open low-lying grassed swaless find, welland restoration and management options.	Upgrade existing unsealed car parking area adjacent to skate park facility:  - formalised entryl exit point off Racecourse Road, expansion for larger number of vehicles, seaded bitumen finish, marked car spaces, timber vehicular barriers/ bollards, security lighting and landscaping:  - intentiate car parking area with proposed regional skate park facility isee item D10).	Continue to maintain and enhance existing passive open spaces and facilities [incl. pichic shelters' lables and seating, BROs, public amenities, playground, bollands/ bollands/ barniers, car parking areas, litter bias, pathways, monuments, signage and landscaping]: - subject to uggrading of central car parking area [see them D7] install new picnic/ BBO shelter [incl. 2 X gas hot-plates] in western grassed area adjacent to pathway;
Item	ing sport categori	22	82	90	6	8	8
Performance Target (Management objectives)	Desired Outcome: To maintain and enhance existi Core Objectives: Management of community land	Proposed exercise stations: To enhance opportunities for exercise/ fitness. To promote dispersal of visitor loadings within the most durable locations.	Vehicular access & car parking areas: To maintain existing parking facilities. To provide a safe pedestrian environment. To manage traffic flows/ peak concentrations.	To improve visitor access and parking for larger vehicles.	To address temporary parking facilities and associated traffic management, public safety and visual quality.  To facilitate opportunities for dispersal to enhance opportunities for dispersal of visitor concentrations in reserve.  To address issues of sociation, allenation and anti-social behaviour. To enhance environmental values and promote natural recultiment. To investigate options for broader restoration and integration of wetlands.	To improve existing facilities and enhance recreational opportunities. To provide opportunities for dispensal of concentrated recreational loadings.	Passive recreational facilities: To mainlain and enhance existing passive recreational open space and facilities. To address public safety issues and to replace ageing, non-functional or damaged infrastructure.
	100			səi	recreation, access and facilit		

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Priority		ongoing	high	ongoing	ongoing	ongoing high		high							ongoing	medium		high		medium		ongoing		Bulobilo	medium
Means of Assessment (of the actions)	ities for passive recreation. nmunity use (361).	Maintenance in accordance with service standards.	as above	Disability access issues addressed.	Maintenance in accordance with relevant standards.	Measure trends over time. Proposed staged development capital works items completed suited to anonomiale funding.		Works implemented in accordance with this Plan of Management and subject to available funding.	•						Maintenance in accordance with service standards.	Proposed staged development/ capital works items	completed subject to appropriate funding.	Proposed staged development/ capital works items	completed subject to appropriate funding.	Review conducted and recommendations	implemented subject to appropriate funding.	Proposed staged development/ capital works items	completed subject to appropriate funding.	Measure frends over time.	Options reviewed and recommendations implemented.
Means of Achievement (Management Actions)	Desired Outcome. To maintain and enhance existing sporting and community facilities and to improve public access, linkages and opportunities for passive recreation. Core Objectives: Management of community land categorised as natural area: wetland (36K), park (36G), sportaground (36F) and general community use (36I).	<ul> <li>removel rationalize ageing recreational infrastructure, particularly items in disrepair and requiring costly returbishment/ maintenance;</li> </ul>	<ul> <li>remove existing mounded water feature/ rockery and reinstate open space;</li> <li>ensure all new facilities are well-infecrated with anoromizate linkanes.</li> </ul>	design of mer tradities needs to address disability access, including wheelchair access to picnic shelters and tables.	<ul> <li>continue regular maintenance inspections, monitoring and prompt repair of children's playoround, play equipment and swrithetic safety fall areas.</li> </ul>	restrict ad not pay expension to facilities features, particularly monuments [see item B4].  seek federal grant funding for George Caley Arboretum [stage 2] and ensure appropriate integration with other facilities, landscaping and restoration strategies.	Subject to youth forum outcomes, upgrade existing local skate park to a regional facility:	<ul> <li>co-ordinate workshop with youth workers/ local youth to discuss skate park options find: retaining status quo, upgrading or closure of facility);</li> </ul>	<ul> <li>seek government grant funding for upgrading facility.</li> <li>subject to commitment of resources, expand size and layout of facility to provide</li> </ul>	broader opportunities/ skill levels for skaters, BMX and scooter riders;	<ul> <li>integrate new car parking area and proposed 'gateway' signage/ landscaping adjacent to Baracourse Road intersaction.</li> </ul>	- remove existing dense planting [Swamp Oaks] surrounding facility and ageing/	damaged and vandalized infrastructure;	<ul> <li>Install security lighting/ cameras and improve regulatory control and policing to restrict unauthorised activities, vandalism and other anti-social behaviour;</li> </ul>	- improve level of maintenance.	Install additional park lighting, including security and ambient lighting, within major	nodal areas of recreational activity [eg. car parking areas, entry/ exit points and along the shared pedestrian pathway/ bikepath].	Install 'Ham Common' identification signage at key entry points off Windsor Road	[incl. eastern 'gateway' at Racecourse Road intersection, western paddock/ wetland and main car parking areas].	Review options to rationalize reserve signage and restrict proliferation of different	types of signs [incl. identification, directional, regulatory and interpretive signage].	Ensure that all visitor information and interpretive signage [incl. Botanists Way panels]	Is consistent, durable, vandal-resistant and include use of maps and sensory options.	maintain existing poincy trial codes are to be of reastliar all times in the reserve and compliance with other restrictions file, picnic areas/ children's playaround]. Review	options to install dog waste bins [incl. dog faeces bags].
Item	ng sporti categoris	D9 [confd]					D10									110		D12		D13		D14	440	2	sinter
Performance Target (Management objectives)	Desired Outcome: To maintain and enhance existi Core Objectives: Management of community land	Passive recreational facilities [cont'd]:  To maintain and enhance existing passive	recreational open space and facilities.  To address public safety issues and to replace	ageing, non-functional or damaged infrastructure.  To provide a consistently high standard of	maintenance throughout the reserve.  To address equity and access issues	and provide opportunities for all user groups.  To protect natural/ cultural setting and visual landscape character.	Proposed upgrade of skate park facility:	To co-ordinate youth forum to discuss future options for the skate park.	To seek grant funding assistance. To enhance unstructured recreational	opportunities for youth.	To improve public interface to roadway	To re-establish spatial connectivity.	To provide greater visibility and broader	Community ownership or this area.  To improve visual quality.	To address public safety issues.	Security lighting:	To improve park security and reduce level of vandalism and anti-social behaviour.	Signage & visitor information:	To improve visitor orientation and awareness of environmental and heritage values.	To rationalize reserve signage.	To improve visual quality.	To present a more consistent integrated	approach to reserve signage.	To address companion animal issues.	

recreation, access and facilities

TABLE 6:

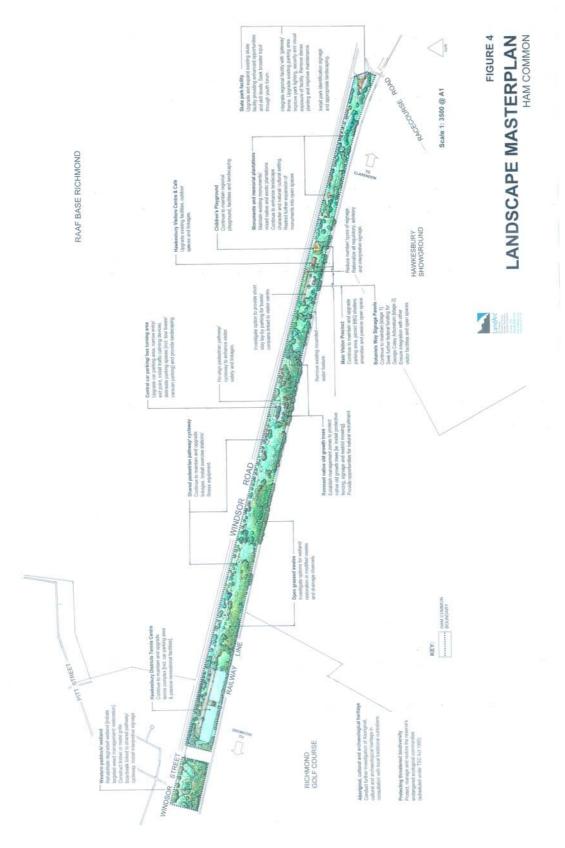
#### CAPITAL WORKS PROGRAM

ITEM	ACTION	CAPITAL COST (\$)	IMPLEMENTATIO
			2010 2011 2012
A1-A9	Community land management		
A1 A2-A4 A5 A6-A9	see following items for details no capital works component see following items for details no capital works component	see below not costed see below not costed	
B1-B4	Heritage		
B1 B2 B3 B4	conduct investigations/ consultation with Aboriginal custodians continue investigations/ consultation with representative groups develop and install signage/ consultation [Aboriginal and cultural heritage] consolidation of monuments and landscape features	not costed not costed \$10,000.00 see below	
C1-C18	Environment and biodiversity		
C1 C2 C3-C7 C8 C9-C14 C15-C16 C17 C18	continue implementation of stormwater strategy on catchment priorities basis liaise with stakeholders/ establish partnerships & modify management regimes implement integrated & targeted weed management/ restoration strategy delineate management zones/ temporary fencing and signage as above [see C3-C7] implement appropriate management/ maintenance strategies investigate options for restoration of wetlands in low-lying grassed swales cooperative planning/ liaison - flood planning/ management	not costed not costed \$60,000.00 \$30,000.00 see above not costed see above not costed	
D1-D15	Recreation, access and facilities	MANAGEM BASILINA	
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12-D14 D15	continue to seek federal funding for Visitor Centre/ precinct upgrade maintain/ upgrade tennis complex and passive recreational facilities maintain/ upgrade shared pedestrian pathway/ cycleway [items 1-3] install exercise stations/ fitness equipment maintain/ upgrade main car parking areas investigate/ construct [short stay] lay-by parking for buses/ caravans modify/ upgrade central car parking/ bus turning area upgrade car parking area adjacent to skate park maintain/ upgrade passive recreational facilities [incl. new picnic shelter/ BBQ] upgrade skate park facility/ gateway initiative install additional park lighting targeting nodal areas of activity install identification signage/ rationalize existing signage maintain companion animal policy/ investigate options	not costed not costed see below \$60,000.00 not costed \$25,000.00 \$220,000.00 \$45,000.00 \$150,000.00 \$80,000.00 \$30,000.00 not costed	
497	TOTALS	\$830,000.00	

Note: Opinion of probable landscape constructions costs is based on Fig 6: Landscape Masterplan. All figures shown are indicative only.

SUMMARY OF ANNUAL BUDGETS	CAPITAL COST (\$)
2009	\$87,000.00
2010	\$222,000.00
2011	\$242,000.00
2012	\$152,000.00
2013	\$127,000.00
TOTALS	\$830,000.00

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### **APPENDICES**

- I: Community Consultation presentation material and submissions
- II: Schedule of Existing Native Plant Species
- III: Schedule of Existing Ornamental and Weed Species

LANDARC PTY LIMITED APPENDICES

ISSUE B: 18 FEBRUARY 2009 HAWKESBURY CITY COUNCIL

# HAM COMMON, CLARENDON DRAFT PLAN OF MANAGEMENT

# Why do we need a plan of management?

Ham Common is community land owned by Hawkesbury City Council. A community land plan of management provides the framework for managing community land. A plan of management must be prepared in accordance with the *Local Government Act 1993*. Community consultation is an important part of this process.

Sustainability is a key principle guiding this process. The draft plan of management aims to contribute to an ecologically sustainable city and region and add to the quality of life in the Hawkesbury City local government area. Ham Common has a broad range of natural, cultural, social, commemorative and recreational values. It is important that the draft plan of management establishes how these values should be protected, managed and enhanced.

# What is the purpose of a community workshop?

The main purpose of the community workshop is to discuss the way the community values the reserve and to identify important issues affecting these values and opportunities for future sustainable management. The workshop aims to provide a transparent and equitable forum for all user groups, stakeholders and individuals.

To support any comments you wish to make please fill out the *Community Issues Questionnaire*. Please leave completed issues questionnaires at the desk when you leave or if you need more time these can be mailed to:

LandArc Pty Limited PO Box 304 Avalon NSW 2107

Please return questionnaires within ten (10) days.

If there are any specific issues you need to discuss following the community workshop, please contact the Director of LandArc, Noel Ruting during office hours on 9973 1330.

Community issues raised at the workshop will be addressed in the draft plan of management. Further comments on the draft will be invited during the public exhibition period.

## What are the expected outcomes for the draft plan of management?

The draft plan of management will establish a framework for managing the reserve in accordance with the *Local Government Act 1993* and other relevant legislation. The following will be addressed:-

establish the reserve's role in the Hawkesbury City Council LGA;
identify existing uses, improvements and condition of facilities and
buildings;
categorize the community land in accordance with relevant legislation;
identify and assess the reserve's values (ie. environmental, scenic,
recreational, cultural, social, commemorative, etc);
identify and assess key issues affecting the reserve's values;
establish future permitted uses, activities and development (including
intensity and scale);
develop appropriate management strategies and actions based on a
balanced, sustainable approach to resource management;
assign priorities for a strategic plan (5-years) and estimated capital
works expenditure; and
prepare a landscape master plan.

# When will the draft plan of management be exhibited?

The draft plan of management will go on public exhibition at Council's Administration Centre, Hawkesbury Central Library (in the Deerubbin Centre), Windsor and Council's web-site. It is envisaged that the draft plan of management will be completed by early December 2008.

The draft plan of management goes on public display for four weeks and a further two weeks are allowed for final written submissions (ie. a <u>total of 6</u> <u>weeks for submissions</u> from commencement of public exhibition to closure). The public exhibition dates will be advertised by Council.

...

### HAM COMMON

## Community Workshop Draft Plan of Management

6.30pm – Tuesday 7<sup>th</sup> October 2008 Tebbutt Room, Deerubbin Centre 300 George Street, Windsor

- 1. Welcome & introductions
- 2. Brief overview of plan of management process
- 3. Discussion
  - Planning & Context:
    - Hawkesbury City LGA/ regional context
    - location/ reserve boundaries
    - community land (legislative requirements)
    - historic background
  - Community land reserve's values:
    - rural and cultural setting
    - landscape character/ scenic qualities
    - environmental and biodiversity values
    - public access, recreational and social values
    - passive and active recreational facilities
    - categorization of community land
  - Management issues:
    - protection, management and rehabilitation of natural areas (endangered ecological communities)
    - existing user groups (passive and active/ local and regional)
    - public access and linkages/ opportunities
    - public safety/ risk management
    - visitor facilities
    - interpretation/ environmental education
    - recreational impacts (eg. vandalism, rubbish dumping, etc)
    - supply issues/ current and future demand
    - opportunities for future upgrading of facilities
    - planning issues and relevant legislation

### 4. Conclusion

- time-frame for draft plan of management
- public exhibition and plan adoption
- exploring issues papers



## **Community Issues**

### **Draft Plan of Management Ham Common, Clarendon**

A draft plan of management is being prepared for Ham Common. Community consultation is a vital part of the plan of management process. Please take a few minutes to fill out the following questionnaire.

May we	May we have some personal details. (please circle item)						
a. AGE	<20	20-35	36-50	50-65	>65		
b. SEX	Male	Fer	male				
Please p	orovide your re	esidential pe	ostcode.				
How ofte	en do you visit	the reserve	e? (please	tick box)			
Less than once a year							
1-3 times a year							
4-6 times a year							
Frequent visitor (please circle item below)							
<u> </u>	monthly	weekly	most c	lays			
Do you have a seasonal preference for visiting the reserve? (please circle items as applicable)							
	summer	winter	all yea	r round			
What do	you like most	about the	reserve?				
	a. AGE b. SEX Please p  How ofte	a. AGE  <20 b. SEX  Male  Please provide your re  Less than one 1-3 times a year of the second you wisit  Frequent visit monthly  Do you have a season (please circle items as a season you have a yo	a. AGE	a. AGE	a. AGE	a. AGE	

What do you believe are the three most important issues affecting the reserve? What actions would you suggest to address these issues? a) Please describe below the first issue you wish to raise. b) Please describe below the second issue. c) Please describe below the third issue. Thank you. Please return this survey to the desk before you leave or mail within 10 days to: **LandArc Pty Limited PO Box 304** 

6.

7 October 2008 LandArc Pty Limited

Avalon NSW 2107

### **APPENDIX II:**

# **Schedule of Existing Native Plant Species**

The separate parcel of land at the western end of Ham Common retains a small, remnant freshwater wetland albeit highly modified and degraded. This area still retains unique ecological values as a freshwater wetland and has state significance listed as an endangered ecological community (Part 3, Schedule 1) of the *Threatened Species Conservation (TSC) Act 1995*.

Ham Common also retains remnant native trees, including a small number of magnificent old growth specimens. These trees are components of the former Alluvial Woodland community (now described as River-flat Eucalypt Forest). River-flat Eucalypt Forest is listed as an endangered ecological community (Part 3, Schedule 1) under the *Threatened Species Conservation (TSC) Act 1995*.

Native plant species are listed in alphabetical order and based on a preliminary survey conducted by Noel Ruting (LandArc Pty Limited) in September 2008. and January – February 2008.

#### **KEY TO ECOLOGICAL COMMUNITIES:**

RFEF = River-flat Eucalypt Forest FW = Freshwater Wetlands

BOTANICAL NAME	COMMON NAME	LOCATION
TREES (8+ metres in height)		
Angophora subvelutina X		
A. floribunda	Broad-leaved Apple	RFEF
Eucalyptus tereticornis*	Forest Red Gum	RFEF
Casuarina glauca*	Swamp Oak	RFEF
Melaleuca decora	White Feather Honeymyrtle	RFEF
Melaleuca linariifolia*	Paperbark	RFEF
Melaleuca styphelioides*	Prickly-leaved Paperbark	RFEF
Melia azedarach var. australasica	* White Cedar	RFEF
SMALL TREES/ LARGE SHRUBS	S (up to 7 metres in height)	
Acacia longifolia	Sydney Golden Wattle	RFEF
Acacia parramattensis	Green Wattle	RFEF
Leptospermum polygalifolium*	Lemon-scented Tea-tree	RFEF
Leptospermum trinervium*	Paperbark Tea-tree	RFEF
Pittosporum undulatum	Sweet-scented Pittosporum	RFEF
CDOUNDCOVEDS (in al. CDASS	ES SERVES FORRS & FERNS	0 EDIDLIVEC
GROUNDCOVERS (incl. GRASS Alternanthera denticulata	•	WF/ RFEF
	Lesser Joyweed	FW/ RFEF
Carex appressa	Tall Sedge	FVV/ KFEF

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BOTANICAL NAME	COMMON NAME	LOCATION
[continued]		
GROUNDCOVERS (incl. GRAS	SSES, SEDGES, FORBS & FERN	S) & EPIPHYTES
Commelina cyanea	Scurvy Weed	WF/ RFEF
Dichelachne sp.	Plume Grass	RFEF
Hydrocotyle peduncularis		WF/ RFEF
Isolepis nodosa	Knotty Club-rush	FW/ RFEF
Lomandra longifolia*	Spiny-headed Mat-rush	RFEF
CLIMBERS & TWINERS		
Glycine sp.	Love Creeper	RFEF
Hardenbergia violacea	Purple Twining-pea	RFEF
SHALLOW-WATER/ SEMI-AQ	UATICS & AQUATICS	
Juncus usitatus	Common Rush	FW/ RFEF
Typha orientalis	Broad-leaved Cumbungi	FW

Local native species (RFEF) believed to be planted (restoration work).

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### **APPENDIX III:**

### Schedule of **Existing Ornamental and Weed Species**

#### KEY:

The following cultivated exotic plants and weed species were identified during site investigations. The species are scheduled in alphabetical order.

#### 1. **NOXIOUS WEED SPECIES (WEED CLASS)**

Species declared noxious within the Hawkesbury River County Council area under the Noxious Weeds Act 1993 are shown with a Weed Class as applicable:

- N1 The plant must be eradicated from the land and must be kept free of the plant.
- N2 The plant must be eradicated from the land and must be kept free of the plant.
- N3 The plant must be fully and continuously suppressed and destroyed.
- N4 The growth and spread of the plant must be controlled according to the measures specified in a management plan published by the local control authority.
- N5 Compliance with requirements in the Noxious Weeds Act 1993 for a notifiable weed.

#### 2. **ENVIRONMENTAL WEED SPECIES**

E The plant has been declared as an environmental weed species (ie. invasive) within the Sydney West - Blue Mountains Region.

#### **CULTIVATED/ ORNAMENTAL SPECIES & GARDEN ESCAPES** 3.

- С Cultivated/ ornamental species (non-invasive)
- C\* Cultivated/ naturalised species including Australian natives (ie. not local genotype or unknown provenance) or exotic garden escapes which are either known to be invasive or potentially invasive.

BOTANICAL NAME	COMMON NAME	CLASS	
TREES (8+ metres in height)	)		
Acer negundo	Box Elder	E	
Agathis robusta	Queensland Kauri Pine	С	
Angophora costata	Smooth-barked Apple	С	
Araucaria heterophylla	Norfolk Island Pine	С	
Allocasuarina sp.	She-oak	С	
Bauhinia purpurea	Purple Flowering Bauhinia	С	
Brachychiton acerifolius	Illawarra Flame Tree	С	
Callistemon spp.	Bottlebrush	С	
Celtis occidentalis	Hackberry	N3	
Cinnamomum camphora	Camphor Laurel	E	
Corymbia citriodora	Lemon-scented Gum	С	
Corymbia maculata	Spotted Gum	С	
Cupressus spp.	Cypress	С	
Eucalyptus elata	River Peppermint	С	
Eucalyptus nicholii	Narrow-leaved Peppermint	С	
Eucalyptus robusta	Swamp Mahogany	С	
andArc Pty Limited		A3-1	

Sydney Blue Gum Wallangarra White Gum Red Flowering Ironbark Eucalyptus spp. Silky Oak Jacaranda Canary Island Date Palm Monterey Pine Plane Tree	000000000000000000000000000000000000000
Wallangarra White Gum Red Flowering Ironbark Eucalyptus spp. Silky Oak Jacaranda Canary Island Date Palm Monterey Pine	C C C C C* C*
Wallangarra White Gum Red Flowering Ironbark Eucalyptus spp. Silky Oak Jacaranda Canary Island Date Palm Monterey Pine	C C C C C* C*
Wallangarra White Gum Red Flowering Ironbark Eucalyptus spp. Silky Oak Jacaranda Canary Island Date Palm Monterey Pine	C C C* C*
Red Flowering Ironbark Eucalyptus spp. Silky Oak Jacaranda Canary Island Date Palm Monterey Pine	C C C* C*
Silky Oak Jacaranda Canary Island Date Palm Monterey Pine	C C* C*
Jacaranda Canary Island Date Palm Monterey Pine	C* C*
Canary Island Date Palm Monterey Pine	C*
Monterey Pine	
•	C
Plane Tree	
	C*
Cottonwood Poplar	C*
Ornamental Cherry & Plum	С
Weeping Willow	C*
Crack Willow	N5
Pepper Tree	C*
Turpentine	С
Chinese Elm	С
English Elm	С
E SHRUBS (up to 7 metres in height)	
Cootamundra Wattle	Е
Giant Red	Ē
Green Cestrum	_ N3
	C
Cotoneaster	N3
Crepe Myrtle	С
	N4
Small-leaved Privet	N4
Magnolia	С
	С
	C*
African Olive	Е
Rhizomatous Bamboo	Ε
Pyracantha	C*
Blackberry	N4
Cassia	Е
Paddy's Lucerne	Е
	Е
Jerusalum Cherry	E
ES. SEDGES. FERNS & FORBS)	
	С
	-
	_
	-
	Е
	C
	-
	C*
	-
	Cottonwood Poplar Ornamental Cherry & Plum Weeping Willow Crack Willow Pepper Tree Turpentine Chinese Elm English Elm  E SHRUBS (up to 7 metres in height) Cootamundra Wattle Giant Red Green Cestrum New Zealand Cabbage Tree Cotoneaster Crepe Myrtle Large-leaved Privet Small-leaved Privet Magnolia Bracelet Honey-myrtle Mulberry African Olive Rhizomatous Bamboo Pyracantha Blackberry Cassia Paddy's Lucerne Wild Tobacco Tree

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Appendix III: Schedule of Cultivated Exotic Plants and Weed Species

Paspalum urvillei	Tall Paspalum	-
Pennisetum clandestinum	Kikuyu Grass	-
Poa annua	Winter Grass	-
Senecio madagascariensis	Fireweed	-
Sonchus oleraceus	Common Sowthistle	-
Sporobolus indica	Parramatta Grass	-
Tagetes minuta	Stinking Roger	E
Taraxacum officinale	Dandelion	-
Trifolium repens	White Clover	-
CLIMBERS & TWINERS		
Anredera cordifolia	Madeira Vine	E
Araujia sericiflora		
(syn. A. hortorum)	NA - 41- N/:	_
(Syn. A. Hortorum)	Moth Vine	E
		E
SHALLOW-WATER/ SEMI-AQUA	FICS & AQUATICS	E
	TICS & AQUATICS  Mullumbimby Couch	-
SHALLOW-WATER/ SEMI-AQUA	FICS & AQUATICS	- -

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