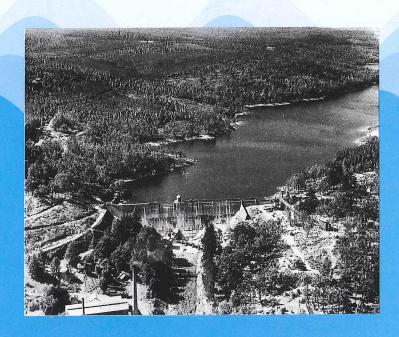


Historical Association of Wetlands and Rivers in the Perth-Bunbury Region



WATER RESOURCE TECHNICAL SERIES

WATER AND RIVERS COMMISSION REPORT WRT3 1996



Historical Association of Wetlands and Rivers in the Perth-Bunbury Region

Report to Water and Rivers Commission

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WATER RESOURCE TECHNICAL SERIES

WATER AND RIVERS COMMISSION REPORT WRT3 1996



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STREAMLINE ABSTRACT

This study and report documents the historical association of wetlands and rivers of the Perth - Bunbury Region to people of European origin. It covers their first exploration of the Region, early settlement and farming development, water supply developments for domestic use and irrigation, the development of the timber industry and land drainage. It draws up a list of important sites within each Local Government Area in the Region

The study contributes to a series of documents published for the purposes of water allocation planning in the Perth-Bunbury Region. Other publications focus on the following topics:

- Recreational Use of Waterbodies in the Perth Bunbury Region
- Report on an Investigation into the Aboriginal Significance of Wetlands and Rivers in the Perth Bunbury Region
- Environmental Significance of Wetlands and Rivers in the Perth Bunbury Region
- Scientific and educational Use of Wetlands and Rivers in the Perth Bunbury Region

Key Words

Water Resources Planning, Historical Association, European settlement, Wetlands and Rivers, Perth - Bunbury, Western Australia

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All respondents to the questionnaire we sent out (listed in the appendix)

All who provided feedback on the draft version of this report

Edith Cowan University

and to Peter Williams of the Water Authority of WA who managed this project.

FOREWORD

The Water and Rivers Commission's Policy and Planning Division is currently undertaking a series of studies aimed at developing a water resources allocation strategy for each of the six regions into which the State has been divided for the purpose. Allocation strategies are to be based on the Commission's aim of promoting a sustainable balance between environmental, economic and social values of the State's water resources. This report contributes directly to that aim.

This current study relates to the Perth-Bunbury Region of the South West, the first region to be covered. As part of the study consultants were engaged by the Commission to report on the historical association of wetlands and rivers within the Region.

This report by the consultants is being published by the Commission in order to inform the community, and to encourage wide debate on this component of the community's need for water, and on the allocation planning process as a whole. While this report has been prepared consistant with the Commission's resource management aims, many of the opinions expressed are those of the consultant and are not necessarily all endorsed by the Water and Rivers Commission.

The Commission would welcome comments on the report from any interested person or organisation. Comments should be addressed to the undersigned.

Jui Hae Ciffe
Tim McAuliffe

Director, Policy and Planning Division

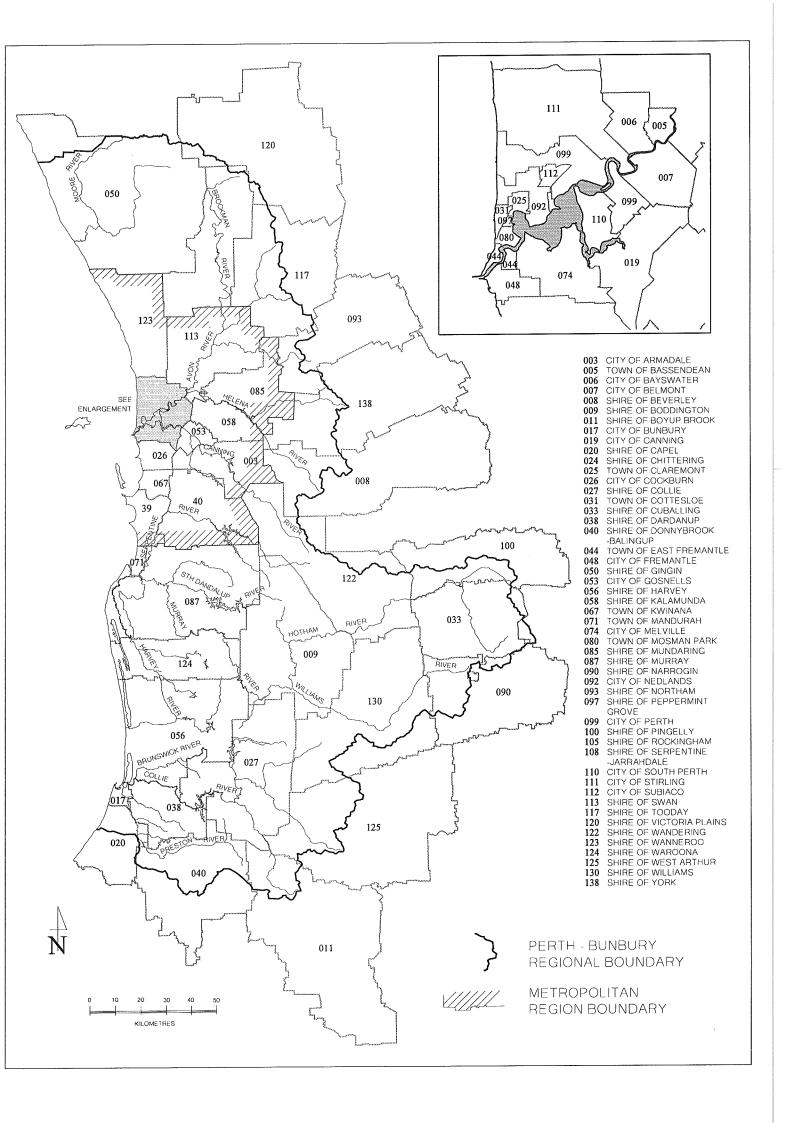
Water and Rivers Commission

November 1996

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1.0 INTRODUCTION

1.1 Background

The Water Authority of Western Australia (WAWA) in conjunction with the Western Australian Water Resources Council (WAWRC) initiated a series of studies in the late 1980's to facilitate the responsible planning and allocation of water resources in the Perth-Bunbury region (see Figure on opposite page). These studies covered recreational, cultural, scientific, ecological and social needs for water within the region. As a result of the studies a draft regional allocation plan was produced in 1991 (WAWRC 1991). The studies were published as a series of WAWRC publications (O'Connor et al. 1989; Feilmann Planning Consultants 1987; Olsen & Skitmore 1991; LeProvost, Semeniuk & Chalmer 1987). Unfortunately, circumstances prevented completion of the study investigating European historical associations with wetlands and rivers in the region. This study will finish this investigation and thereby complete the series of studies. This report was written by scientists rather than historians and so has consisted of a summary of historical work rather than new interpretations of primary sources.

1.2 Aims of the Study

Since settlement in the early 1980's Europeans¹ have had a profound effect on the region's environment. This has resulted in wetlands being drained, river flows altered, water bodies polluted and large demands placed on water resources for drinking, agricultural, and recreation purposes. Indeed, without European settlement none of these WAWRC studies would have been necessary as Aboriginal people had little impact on water resources. Although they did exploit the wetlands and rivers for food and water and may have burnt fringing vegetation to 'improve' growth, this can probably be viewed as sustainable use. European use of water resources has been largely exploitative and environmental degradation and water use are linked. At present, there are examples of where this link is being broken. This series of studies aims to provide information to be used in the strategic planning of water allocations within the Perth-Bunbury region. This study concentrates on the European settlers and things of historical significance to them that are directly or indirectly related to water. This will provide a guide to

where significant historical sites are located so that these can be considered in any future water developments.

1.2 Structure of the Report

This report is divided into the following sections:

- 1. Introduction which details general aspects of the history of the study region, from early exploration to first settlement and presents a timeline showing major events of relevance to water resources. The importance of many of the events to water resources and the environment is highlighted at the end of the section.
- 2. Methodology as any study of this nature is limited by the amount of time available in which to complete it, details are provided of how the study was undertaken and why material was included or excluded from the study. The aim is to show the limitations of the study and to illustrate the general approach taken by the authors.
- 3. Important Historical Areas the data collected for each local government or shire area. Country locations are also given a brief description and a short history. Council areas within Perth are kept together and no individual histories are provided as much of the detail is available in each data table or in Section 1. A bibliography is provided at the end of each section for further reading.
- 4. Recommendations a series of recommendations are made for water resource allocation based on the information collected in the study.
- References references cited in the text are listedAppendices

The term 'Europeans' has been used to broadly refer to all recent immigrants to Western Australia, from the original British Colonists, through to European and Asian immigrants.

1.3 Study Region

The Perth-Bunbury Region is comprised of the Preston, Collie, Harvey, Murray, Swan-Canning, and Moore River Drainage Basins, excluding the inland Avon River catchment. The region covers an area of approximately 50 000 km2, extending southwards from the northern boundary of the Gingin Shire to the Shires of Boyup Brook and Donnybrook. The region extends inland a varying distance to the hydrologic divide of the river catchments listed above. (see Figure opposite p1)

The Perth-Bunbury region comprises three main geographical regions, the Swan Coastal Plain, the Darling Range and the inland agricultural areas to the east of the Range known as the Darling Plateau.

The study area encompasses 50 local government boundary areas although some localities may only partially fall within the study area due to differences between catchment and government boundary divisions. As a result some shires are also covered by other reports (see Horwitz & Wardell-Johnson 1995). The rivers of the region have also been covered in WAWRC (1992) and Olsen and Skitmore (1991).

1.4 Early Exploration

The Dutch were the first Europeans to discover Western Australia (WA) in 1616 and over subsequent years mapped the coast and lost many ships to reefs. The Dutch found that the land contained little in terms of accessible supplies and the Aboriginal people were seen as Ôfierce savages' (Appleyard & Manford 1979). As a result they made no attempt to claim the land. Between the 1700's and early 1800's both French and British explorers mapped the WA coastline, although it was a British explorer (George Vancouver) who found the best natural harbour on the coast which he named King George Sound (in present day Albany). This provided a valuable base for more detailed explorations of the coast. Rivalry between British and French interests allowed Captain James Stirling to persuade Governor Darling of the New South Wales Colony to allow him to explore the Swan River with the intention of determining its suitability as a site for a new colony. His reports led to the eventual establishment of a British colony on the Swan River in 1829.

1.5 General History of Early Settlement

The early settlement of Perth and other cities/towns within the region has been well documented by historians (eg. Appleyard & Manford 1979; Stannage 1981; Ewers 1971; Barker & Laurie 1992; Richards 1978). Typically in these accounts the settlers use and needs in relation to water has been secondary to the political and social intrigues of the times. The publication of ÔWater: The abiding challenge' by Morony (1980) has remedied this situation for Perth. The book provides a comprehensive history of water supply, drainage and sewage in Perth. No similar histories have been written for the other cities/towns within the study area.

Captain Stirling visited the Swan River in March, 1827 and spent 9 days exploring (Markey 1977). He concluded that the area was supplied with a wealth of fresh water sources, including wetlands, streams, springs and accessible groundwater. He also concluded that the climate was moderate. At the beginning of autumn he was fortunate to find the area with ample water supplies. On his return in 1829, he located the Swan River Colony (later renamed Perth) on the northern banks of the Swan River, just east of Mount Eliza. Why he choose this particular site has been cause for much speculation (see Markey 1977 and Seddon & Ravine 1986). The colony was surrounded to the north by ten wetlands which at times of high rainfall joined and flowed through Claise Brook to the Swan River. In the colony's first summer, it became apparent that the wetlands were an unreliable source of water and many settlers resorted to using groundwater extracted from shallow wells. The same situation occurred in Fremantle where the two inland wetlands also proved unreliable as a water resource and were quickly filled in and built over. Once the wetlands lost their importance for a water supply they turned from assets to liabilities restricting further growth of the city and posing drainage problems.

1.6 A Timeline of Water Related Events in the History of the Region

The following is a summary of major historic events that are related to water in Region, although most of the information concerns Perth (based on information from Ewers 1971; Jarvis 1979; Markey 1977; Morony 1980; Parker 1983; Seddon & Ravine 1986; Tauman 1978; WAWA 1994; WAWRC 1992). More specific details can be found in the shire histories and data tables.

The earl	у у	ears - 1829 to 1839	The colony struggles 1840 -1879				
1829 1829-64	-	F 8	1842	-	Perth's first jetties are built at William and Mill St into the Swan River.		
		obtained at a price, from the well of Mr Bateman. Water is transferred in	1843	-	Canning Bridge and a bridge over the Causeway are built.		
1000.05		barrels by boat	1845	-	Sandalwood is exported.		
1829-85	-	Swan River used as the principal means of transport for both goods and passengers between Perth and Fremantle.	1848-54	-	Lake Kingsford is deepened by removing sediment in summer when it is dry. The sediment is used to raise the height of the surrounding land, of		
	-	Fremantle Trust encourages the draining and infilling of all wetlands around Fremantle.			which a condition of sale is that it is raised by 0.6 m above the winter level of the lake. This aims to reduce		
1829-90	-				flooding of the area.		
		shallow wells, wealthier people may also have a water storage tank, otherwise water from the drains and lakes is used.	1848	-	A drain is constructed from Lake Kingsford to Claise Brook to control peak water levels in the lake. Lakes Irwin and Sutherland are drained into		
1831	-	The construction of Burswood Canal allows boat passage from Fremantle,	10.50		Lake Kingsford. One aim is to improve the quantity of water available to wells.		
1832	-	past Heirisson Island to Guildford. Henry Reverley constructs the first of	1850	-	Bridges had been built over the Serpentine River, Collie River (at Australind) and Vasse River.		
		the colony's reservoirs by excavating an area of land between Mill St and William Street in Perth. The reservoir is to be used to power a mill.	1850's	-	Mounts Bay is partially infilled with rubble through quarrying of the limestone cliffs of Mount Eliza.		
1833	-	Agricultural output is so poor, that the colony nearly starves before supplies arrive by ship.	1854	-	The lake drains of 1848 are upgraded, but numerous difficulties are encountered.		
	-	First drains in the Colony are built	1855	-	Small scale dredging of Perth water.		
		down middle of Perth's major streets to control flooding (also used for household scraps and sewage).	1862	-	Disastrous floods affect Perth and settlements along the Avon River.		
		A rival mill, built by Samuel Kingsford		-	Main Perth drain collapses.		
		(on Mill St) is given perpetual rights to four of the lakes as water sources, which marked the end for Reverley's	1862-82	-	Mason and Bird Timber Company use barges on the Swan River to transport timber from Swan to Nicholson Bridge.		
		Mill. It is also hoped that this venture	1864	-	Lake Kingsford is drained.		
		would reduce the chances of flooding, but it didn't.	1866	-	Water powered timber mill is built on Canning River.		
1834	-	Wool is first exported, and is an agricultural success.	1867	-	A small jetty from Mr Bateman's well is built to allow ships to collect their		
1836	-	Jarrah is first exported to England.			own water.		
1837	-	Whaling operations commence in Cockburn Sound.	1868	-	Fremantle Bridge is built. Appointment of ÔInspector of		
1839	-	A dam is constructed across the Swan River ie. first Causeway.			Nuisances' by both Fremantle and Perth Councils.		

		· ·	•
1869	The colonies first dredge is acquired.Perth drains are upgraded.	1880-81	- An artesian bore is sunk in the Perth railways yards, this is used to
1870 - 72	- First artesian bores are dug around Gosnells and upper Canning Bridge.		supplement Perth's water supplies in 1891.
	 Private railways are established from Darling Scarp to Canning River, Rockingham and Busselton by timber companies. 	1881	- Fremantle to Guildford railway is completed. This effectively put an end to use of the Swan River as a means of transport. The line and Perth station, which is built on a drained wetland
1871	 A channel is dredged from the Narrows to William St Jetty. 		proved to be an effective barrier to development further north for many
1872 & 1873	 Severe flooding occurs in many parts of the region. 		years. Ferries link Perth to South Perth until they are replaced with the New
1875	- Wells dug by prisoners under Fremantle Goal provide a large supply		Causeway and Narrows Bridge. A rail bridge is built at Fremantle.
	of freshwater, this was pumped by prisoners into a reservoir. A main pipe was laid down High Street from the	1881-89	- The Guildford rail line is extended to Clackline with branches to Toodyay, Northam and to Beverley.
	Goal reservoir to the new jetty in the harbour and pipes directed to the Railway Station, Public Officers headquarters, the Land and Water	1883	 Construction of Barrack Square by reclamation, first of a series of infill projects in Mounts Bay.
	Police stations and Round House goal.		- Flooding occurs again in Perth.
1876	- Fremantle Council fails to introduce regulations for the adoption of a dryearth sewage system, despite demands from the public.	1884	- Government sets up Sanitation Commission which reports that sewers were unsuitable for both Perth and Fremantle, cesspits should be abolished and the dry-earth system should be
1877	The Perth drains are upgraded again.Attorney-General produces suggested by-laws for the disposal of nightsoil,		 introduced. Governor Broome approves construction of three public taps down
	these are not taken up in full by either		High St in Fremantle.
1878	Council, although Fremantle Council does ban dumping of nightsoil into rivers or the sea within it's municipality. - Normal practice is for nightsoil to be	1885-93	- Gold discovered in the interior, this is followed by a gold rush. The population of Perth increases at record rates, there is a lot of building as wealth pours into the city.
	used on market gardens.	1887	- About 20 wealthy members of the
	- Perth City Council backs out of introducing a dry-earth system but resolves to encourage citizens to use it.		community, paid for connections to the Fremantle Harbour main.
1879	- Landfill of Perth Water to form the		- Fremantle introduces sewage by-laws.
1017	Esplanade.		- Government rail line from Bunbury to
1879-80	- Private contractors employed by the Councils to remove nightsoil.		Boyanup completed, but was so poorly laid as to be unusable.
	- A Government rail line is built between Northampton and Geraldton.		

1868-69

- More serious flooding occurs in Perth.

The goldrush years 1880-1889

- 1888 Members of the west ward of Fremantle are allowed to be connected to the Harbour Main, but not north and south wards.
 - A dam was constructed at Clackline to allow trains to fill up with water at a reasonable cost. This illustrates the need for regular water supplies for the rail network, especially as the line was extended towards Kalgoorlie.
- 1889 The wells, the main and reservoir in the Fremantle goal are upgraded.
 - A rail line linking Beverley and Albany is completed and run by a private company in a land-grant deal.

Water supply and sewage systems 1890- 1909

- 1890 Work starts on Victoria Reservoir, materials for which are transported up the river and by rail to the site.
- 1890's Legislation is introduced covering regulations for sanitary arrangements, detection and abatement of Ôpublic nuisances'.
 - A serious outbreak of typhoid is the trigger for the construction of a sewage system.
 - Fremantle's Board of Health, starts to Ôclean' up the town by closing cesspits and contaminated wells.
 - Few of the State's roads are sealed with bitumen, most are just gravel or sand.
 - Another land-grant scheme results in the construction of a rail line from Perth to Geraldton (joining the existing line at Walkaway).
 - The scarcity of water in the goldfields became a major concern for the government and plans are devised by C.Y. O'Connor to pipe water to Coolgardie from a dam in Perth.
- 1891 Victoria Reservoir completed, providing Perth with it's first water from the Darling Scarp.

- Establishment of a piped water system, run by the privately owned City of Perth Water Works Co. There are numerous complaints about pricing and the service offered by the company. The company builds a storage reservoir on Mt Eliza.
- 1892 ÔMunicipal Water Supply Preservation Bill 1892' was passed to protect the catchment of the reservoirs.
 - All wards in Fremantle are reticulated for drinking water.
- 1893 A double pan system is introduced into Perth.
 - Government railway from Perth to Bunbury completed and later extended to Collie.
- Perth City Council introduces its own night soil collection service.
- 1896 Fremantle Council introduces a covered pan system for sewage disposal.
 - The Government passed the ÔPerth Waterworks Purchase Bill' and bought the Water Works Co and let control pass back to the Council. The Council had been trying to get control of the company soon after its formation, as the Victoria reservoir had been allowed to become polluted. The Company becomes the Waterworks Board.
 - Fremantle strengthens it's sewage bylaws.
 - Fremantle Council contracts out nightsoil collection and leases its sewerage farm to Laudehr and Gillespie.
- 1896-98 Perth Council introduces a series of bylaws aimed at improving sanitation and drainage.
 - Under C.Y. O'Connor's direction, the bar across the mouth of the Swan River was removed by explosives, thus changing the nature of the estuary forever. This allowed the construction of Fremantle's Inner Harbour, which saw it replace Albany as the principal port in the state. The bar was made of

1897

Calcarenite and not sand as Stirling had originally predicted. Previous attempts to remove the bar occurred in 1849 and 1869 without success.

- A channel is dredged between Barrack St jetty and both Mends and Coode St jetties.
- ÔBathwater' carts were used to supply Fremantle's Canvas Town (a shanty town established during the gold rush).
- Peak of typhoid epidemic in Perth.
- Perth experiences the ÔGreat Water Famine' and the Board responds by laying larger mains from Victoria reservoir, sinking another artesian bore at the Railway yards and by carting water to badly affected areas.
- 1897-The drains of the city were upgraded 1904 resulting in raw refuse being discharged into the Swan River.
- 1898 Fremantle Council demolishes Canvas Town.
 - The Board is forced to resign and its members are replaced in response to allegations corruption and mismanagement. The new Board extends the mains into Subjaco. Leederville, Victoria Park, North Perth and Mt Lawley. They introduce an aeration process to purify the water, and increase the storage capacity of Victoria reservoir.
 - A temporary bridge was built next to the old Fremantle traffic bridge which had become to unstable for traffic use
- 1898 The Perth City Council had many problems with a sewage disposal site in Bayswater. As a result waste was pumped to a site further away, where the pans were steam cleaned and the waste was filtered and settled before being used to grow crops for council horses.
- 1899 The Fremantle Water Supply Bill passed control of Fremantle's water supply from the Government to an independent Board. The Board sank more bores near the Goal, built a new

reservoir at Swanbourne St and started treating the water with lime to remove iron salts.

- A private member's bill was introduced into parliament which allowed Peppermint Grove, Cottesloe and Cottesloe Beach to be supplied by the private Osborne Water Supply Company.
- The ÔMetropolitan Waterworks Bill' gave the Waterworks Board more power to collect revenue.
- Laudehr and Gillespie introduce the two-pan system to Fremantle and extend the sewage farm.
- 1900 'Land Drainage Act' was passed in the Government assumed which responsibility for the drainage of rural land.
- 1900's Comprehensive drainage scheme started around Harvey.
 - Harvey River de-snagged and straightened.
 - Waroona and Harvey main drains were built.
- 1900-30 Large areas of land brought into agricultural production, this lead to salinization of many streams, rivers and wetlands on the Darling Plateau.
- 1902 Coolgardie pipeline is finished. pumping tests take place, and amid constant criticism C.Y. O'Connor commits suicide. Eight months later water arrives in Coolgardie.
- 1903 The Osborne Water Supply Company is bought by the Government. Bores are sunk at Butler's Swamp (Lake Claremont) and more domestic reticulation is installed
 - The 'Metropolitan Water and Sewerage Bill' combined for the first time water supply and sewerage under the same authority.
 - Hugh Oldham is asked to devise a bacterial system to deal with sewage.
 - Mundaring Dam is completed.

- 1904
- The responsibilities of the Waterworks Board are invested in the Public Works Department by the 'Metropolitan Waterworks Act Amendment Bill'.
- After a successful demonstration of septic tanks and bacterial filters at the Midland Junction Railway Workshop, the system is installed by some private citizens.
- Area fringing Geographe Bay west of Capel is drained by a network of channels.
- 1907
- Construction of Perth's sewerage main begins.
- Drainage schemes built at Vasse and Wonnerup.
- 1908 Old Fremantle Traffic bridge is upgraded and supports a new tramway to the northern parts of the city.
- 1909
- The Government proclaims the Ô1904 Water and Sewerage Act' and appoints a Metropolitan Board of Water Supply and Sewerage, after political manoeuvring the Board was disbanded and absorbed into the Minister for Works Department. This was an important step as for the first time there was a state controlled integrated approach to drainage, sewerage and water supply in the metropolitan area.

The war and postwar years 1910-1929

- 1910-11 Another storage reservoir is constructed at Mt Eliza.
- 1911 The water to col neede
- The availability of galvanised iron water tanks allows many householders to collect water off roof tops. This is needed as many areas still have limited access to reticulated water, water is also variable in quality and high in price.
 - A pipehead dam is constructed across Bickley Brook.
 - Below ground cesspits are abolished by the Health Act.
- 1912-67
- The use of septic tanks for residential housing becomes increasingly common as subdivisions are opened up at a

- faster rate than sewers can be provided.
- 1912
- A new Department of Water Supply, Sewerage and Drainage is established by the incoming Labour Government.
- Claise Brook and Burswood Island sewerage treatment plants are completed, which utilised bacteria, percolating filters and large septic tanks.
- Fremantle's sewerage system is commissioned, with a main sewer draining into 3 septic tanks near Robb's jetty, the effluent is pumped out into the sea.
- For the first time, shipping and the railways in Fremantle are supplied with water from Victoria Reservoir.
- An experiment to increase runoff into Mundaring Weir by thinning trees in the catchment results in increased salinity in streams entering the dam.
- 1912-13
- Large infill sewer program and construction of stormwater drains.
- 1913
- Sewerage pump houses built on the Perth foreshore.
- 1913-14
- The metropolitan area is regazetted and now includes Armadale (supplied by a pipehead dam on Narrogin Brook), Guildford and Midland.
- 1914
- Perth, Fremantle and Claremont are consolidated together with common account systems, ratings and pricings for water.
- More filter beds are built at Claise Brook.
- Mt Hawthorn reservoir is completed.
- Fremantle's domestic water is augmented by Hill's water.
- Claremont also starts to use Hill's water.
- 1916
- Water is taken from Mundaring Dam to supply Perth.
- 1918-20
- Another 3 filter beds are completed at Claise Brook and a new settling pond is built at Burswood Island.

1920	- Fewer than 30% of Perth houses are connected to the sewers.	1929-31 - Smiths Lake drain is upgraded to reduce flooding at Lake Claremont.
	- Water restrictions are introduced for the summer.	The Great Depression 1930 -1939
1920's	- Service reservoirs are constructed at Melville Park, Swanbourne Terrace, Fremantle, Richmond Hill, Mt Eliza and Mt Hawthorn.	 1930's - During the Depression, expenditure on water and sewerage works were the largest items in the State's capital expenditure account. The goldfields pipeline is overhauled
	- Algal blooms become a problem during summer in the Swan River, the sewerage plants at Claise Brook and Burswood Island are blamed although various experts are produced to find other causes. To combat the problem, the algae is harvested during 1922-23.	and extended to service other country areas. - Dams are constructed at Harvey, Waroona and Collie (Wellington). - Sewering continues into Mt Lawley, Claremont, Peppermint Grove and Mosman Park.
1921 1921-32	 A reservoir is constructed on Bickley Brook. Loss of Point Fraser and some of Mounts Bay by reclamation to allow 	 Harvey River diversion drain is built entirely by hand to change the outlet of the river from Harvey estuary to the ocean near Myalup.
1923	 construction of Langley Park. Pipehead dam constructed on the upper Canning at Araluen. Legislation is enacted which provides 	1933 - Construction of Canning Dam begins to provide employment during the Depression and to provide a valuable water resource for the city.
	for the Public Health Department to administer the design and installation of septic systems.	- The mosquitofish (Gambusia holbrooki (sic affinis) is introduced into Western Australia by an amateur fish breeder, it has since spread throughout the region.
1925	 Wungong Brook Pipehead dam is completed, this is eventually removed following the construction of a major storage reservoir on the site in 1979. 	It is believed responsible for the elimination of native fish in certain areas. 1935-39 - Subiaco WWTP is expanded and a
1926	- Fremantle is connected to the Hill's water main.	sludge digestion system is introduced. 1936 - Burswood Island and Claise Brook
	Fremantle rail bridge collapses and is repaired.Severe flooding occurs along the Avon	Sewerage plants are closed, and wastewater is diverted to Subiaco WWTP.
	River. River training takes place to reduce flooding risk.	- Swanbourne WWTP is built to service Claremont and Cottesloe with an ocean
	- Collie floods up to 2.5 m deep in places.	outfall (same as used by Subiaco WWTP).
1927	- A wastewater treatment plant (WWTP) is built at Subiaco.	1937 - Riverside drive is extended to the Causeway by reclamation.
1928	- The Government commits to ocean rather than river disposal of sewage effluent.	 Filling of Millers Pool (Mill Point). Completion of Smiths Lake and Bayswater drains.
1929	- Churchman's Brook Reservoir is completed.	 New Fremantle Traffic Bridge (Stirling Highway) is built on the site of the temporary bridge.

temporary bridge.

The second war and postwar years 1940 -1959

1940 -	Canning Dam	is	finished
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 A pipe is laid between Canning and Mundaring weir to allow Mundaring to be augmented by Canning water

1955

- A tank on Mt Flora is used to connect North Beach to the water supply system.
 - A tank is built at Doubleview to improve supply water to the area.
- 1945 The suburbs, Inglewood, Bassendean and Graylands are sewered.
- Work on the New Causeway is started.
 - Old Fremantle Traffic Bridge is demolished.
- South Perth, Claremont, Bassendean, Inglewood, Subiaco, Victoria Park and North Perth are finally completely sewered.
 - A service reservoir is built at Mount Yokine.
 - Severe water restrictions are introduced following the collapse of the Canning contour channel near Araluen.
 - Kent St weir is built.
 - 's A diversion weir is constructed on Kangaroo Gully to divert water into Canning Dam.
 - More reservoirs are built at Mount Yokine.
 - More bores are dug to augment Hill's water supply.
 - Upgrade of the Mundaring reservoir to Greenmount service reservoir pipeline to improve water supply to Midland.
 - Construction of high-level tanks, pumping stations and feeder mains at Scarborough, Roleystone, Yokine, North Beach and Melville.
 - A main is constructed from Fremantle to Kwinana, with a storage tank at Mt Brown to supply the industry starting at Kwinana.
 - Another traffic bridge is planned for Fremantle.

- Mechanisation allows rapid clearing of native vegetation, this continues strongly into the 1960's, the result is salinization of rivers, streams and wetlands.
- Publication ÔPlan of for the Metropolitan Region -Perth and Fremantle'. The plan is quickly adopted and Perth develops along four corridors which leave semi-rural to rural areas over the Groundwater Mounds. This plan fundamentally alters the design for the city making it ideal for cars but poor for public transport users.
- Large infilling of Mounts Bay occurs for the construction of the Narrows Bridge.
- Thomson's Lake reservoir is completed to improve supply to industry and Medina.
- Severe flooding occurs along the Avon River.
- 1955-60 Drainage work is undertaken in Bayswater, Bentley, Victoria Park and Belmont.
- 1957 A pipehead dam is constructed at Serpentine River, which also includes an automatic chlorinator
- 1958-70 Extensive river training of the Avon River takes place between Brookton and west of Toodyay.
- 1959 Narrows Bridge is opened.
- 1960 A longer ocean outfall is built for Subiaco WWTP.

The boom years 1960 to 1979

- 1960's Mass immigration and a booming economy result in rapid redevelopment of much of Perth, with the loss of many historic buildings.
 - Large numbers of service reservoirs, summit tanks and water towers are built to cope with the rapidly increasing population. There are now 18 sewage treatment plants to deal with the large quantity of waste being produced.

1961	 Some Perth wetlands are used as sites for sanitary landfill (eg. Lake Monger and Bibra Lake). The Serpentine Dam is completed. 		only 6% of the domestic water used came from artesian sources, 34% came from shallow groundwater - Construction of neighbourhood
1961 - 1962	- Completion of the upgrade of Subiaco WWTP to secondary treatment using an activated sludge process, and a new longer ocean outfall is constructed.		 WWTP's in new suburbs to cope with the rapid expansion of the city. The mid-seventies saw a rise in public education with regards to water conservation techniques, overall
1963	- A scheme to provide sewerage to properties south of the river is announced and a primary treatment plant is built at Woodman Point.		individual consumption decreases as one in five customers sink private bores. - Severe eutrophication occurs of the
	 OMetropolitan Water Supply, Sewerage and Drainage Amendment Act' was passed and control of the old department passed to the Metropolitan Water Board. 	1971	Peel-Harvey estuary. - Water restrictions are introduced for the summer. - North Dandalup pipehead dam is
	- Catchment clearing is believed responsible for the Collie River flooding Collie.	1972	completed.Bunbury (north) WWTP is upgraded.Gordon Road (Mandurah) WWTP is
	- First stage of the Bunbury sewerage scheme is commissioned, with secondary treatment and ocean discharge at Bunbury (north).	1973	 commissioned using land infiltration to dispose of the effluent. Metropolitan Water Board disconnects services for failure to pay rates.
1964	- Collie is flooded again.		- South Dandalup Dam is completed.
1965	- Fremantle septic tanks (Robb's Jetty) are abandoned as their role is taken over by Woodman Point WWTP. Treated wastewater is discharged by outfall to Cockburn Sound.		- An amendment to the Water Supply, Sewerage and Drainage Act gives the Metropolitan Water Board the power to protect and regulate areas in the interests of conservation and protection
1965- 1968	 Collie River is widened and cleared to reduce the risk of flooding. 		of the aquifers First stage of Beenyup WWTP is
1966- 1967	- Testing of the Gnangara Mound leads to the development of new borefields to extract groundwater.		completed to serve the northern suburbs, it includes secondary treatment. Land infiltration is used to
1967	 Mounts Bay is filled for the Mitchell Freeway interchange. 	1976	deal with treated wastewater Water restrictions are introduced
	Fluoridation of water begins.Government Policy dictates that all new subdivisions must be sewered.	1977	during summer. - Treated wastewater from Beenyup WWTP is discharged into the ocean at Ocean Reef.
1968	 Fremantle's inner harbour is extended upstream. 	1978	 Introduction of a pay-for-use system for domestic water.
1969	 Opening of Point Peron WWTP and ocean outfall. 		- Halls Head (Mandurah) WWTP is commissioned, using land infiltration
1970's	- Up to 1970, only untreated artesian water was used to augment the Hill's supply of domestic water. By 1979,	1979	for effluent disposal. - Wungong storage dam is completed.

- The major WWTP's at this time are Subiaco, Woodman Point, Beenyup, Swanbourne (all with ocean outfalls) and Westfield. The following small plants also are being used Canningvale, Kwinana, Point Peron, Forrestfield. Kelmscott, Kewdale, Kalamunda Hospital, Two Rocks, Yanchep and Wanneroo. In this year the following plants are closed, Gosnells, Eden Hill, Maddington and Carousel.
- Second WWTP is commissioned at Bunbury (south), with land infiltration.
- Eaton WWTP is commissioned, with land infiltration.
- Gordon Road WWTP is upgraded.

Unprecedented growth 1980-1995

- 1980's The Water Authority of WA sponsors research into wetland and stream ecology.
- 1981 Government Sewage Policy aims to eliminate the backlog of sewerage
- 1983 Australind WWTP is commissioned. with land infiltration.
 - New primary WWTP is opened at Woodman Point.
- 1984 Woodman Point WWTP effluent is now directed down to Point Peron for discharge to reduce pollution of Cockburn Sound.
 - Hundreds of birds die on Forrestdale Lake, which are believed to have eaten Abate granules used to control nuisance midges.
 - Severe algal blooms are observed on the south branch of the Collie River.
 - The Metropolitan Water Board becomes the Water Authority of Western Australia.
 - Halls Head WWTP is upgraded.
 - Subiaco WWTP is upgraded and Swanbourne WWTP is abandoned with waste being diverted to Subiaco WWTP.

- Government Sewage Policy commences to eliminate the backlog of sewerage work.
- 1986 Gordon Road WWTP is upgraded.
- 1987 Bunbury (south) WWTP is upgraded.
- 1989 Severe algal blooms observed on the south branch of the Collie River.
- 1990's Construction of residential canal developments in the Peel Harvey estuary (Mandurah).
 - The Water Authority commissions the ÔPerth Coastal Waters Study', to assess the likely effects of any increase in the discharge of treated wastewater effluent to the sea.
 - A second ocean outlet is built for Beenyup WWTP at Ocean Reef.
 - Gordon Road WWTP is upgraded.
- The free water allowance is reduced and then removed.
 - Dawesville cut is constructed to allow better flushing of the Peel-Harvey estuary to improve water quality.
 - Government announces a large infill sewerage program, designed to reduce reliance on domestic septic systems which are believed to be contaminating the groundwater.
 - Severe encroachment onto the Jandakot Mound by housing. Construction of a series of drains to control flooding in the new estates links a series of wetlands together and increases water depth and reduces water quality in the majority of them.
 - Water restrictions are introduced for the summer.
 - Toxic algal blooms are recorded on the Canning River.
 - An extensive power cut results in a small amount of sewage overflowing into the Swan River from pump stations (as per design), resulting in public outcry.
 - Publication of ÔWetlands of the Swan Coastal Plain, Volume 1, Their nature and management' by Dr Shirley Balla,

1993

1994

1992

1985

brings together a series of research projects sponsored by the Water Authority of WA and the Environmental Protection Agency.

- 'Wastewater 2040 Discussion Paper' is produced by the Water Authority to examine options for dealing with sewage in the future.
- WWTP's are The following with ocean outfalls operation; Woodman Point (primary treatment, discharged through Point Peron), Beenyup and Subiaco, and using land infiltration - Wundowie, Northam, Kalamunda Hospital (Private), Health Department Septage and Industrial Wastes Plant, Kwinana, Port Kennedy, Gordon Road, Yunderup, Pinjarra, Halls Head, Eaton, Australind, and Bunbury (north and south). The following temporary WWTP's are also being used - Two Rocks, Yanchep, Bullsbrook and The Vines Resort. New plants are proposed at Alkimos, East Rockingham and Caddadup.
- 1995 The Water Authority of WA is undergoing a process of division into the Water and Rivers Commission and The Water Authority. Corporatization of the supply division promises substantial changes to the future of water supply in the state.
 - Upgrading of treatment facilities at Beenyup WWTP to keep up with demand.
 - Relining of Coolgardie pipeline takes place to extend life by 50 years.

1.7 Demands for Water

Despite Captain Stirling's rosy descriptions of the availability of water, the early settlers quickly found that the provision of water was an impediment to growth and expansion inland. Initially settlers and explorers may have gained insight into the location of sites of good water from Aboriginal people. The rapid decline in relations between Aboriginal people and settlers, especially through the attitudes of the first generation of locally born settlers, is likely to have limited this cooperation (Reece & Stannage 1984). Settlers obtained drinking water mainly from groundwater wells, as the lakes and springs proved to be often dry during summer. Accompanying the problems of finding water was disposal of sewage, which initially ended up in cesspits contaminating many of the wells. The provision of drinking water and sewage didn't become widely available until the early 1910's. Corruption, intransigent local councils and a faltering economy until the 1880's goldrush are probably responsible for this (see Morony, 1980). The gold was located in an area where water was difficult to find and this became an impediment to the development of this resource. This lead to one of the world's great civil engineering projects, the goldfields water pipeline which piped water from Perth (Mundaring Dam) to Coolgardie (eventually to Kalgoorlie).

Contamination of the shallow groundwater supplies, resulted in a shift to using water from reservoirs on the Darling Scarp. Apart from problems at Victoria Reservoir, the State has been fortunate that dam construction preceded urban expansion and early legislation has lead to the protection of the catchments of these reservoirs. The limited opportunities for construction of further dams, the corridor plan (which indirectly protected groundwater mounds) improvements in sewerage disposal have lead to a return to using groundwater for domestic supply. Rapid urban expansion in the late 1980's onto the Jandakot groundwater mound has again threaten this resource. The construction of reservoirs has had a profound impact on the environment, with areas permanently flooded and the natural flow of streams and river altered downstream of the dams.

Progress in dealing with wastewater was also slow with a gradual move from cesspits, to collection of nightsoil, to septic tanks and finally to sewers transporting the waste to a treatment plant. The construction of sewers has often lagged behind urban expansion and many suburbs are not sewered and use septic tanks. Potential problems identified with the use of septic tanks has encouraged a shift towards underground sewers.

Transport initially very difficult with the cost of moving supplies from Fremantle to York being more than nine times more expensive than shipping them from England (Markey 1977). This was because overland transport was so difficult, the use of the river and sea transport was used where possible as this was much more economical. As the Swan River was very shallow and blocked by a bar at it's mouth this limited shipping considerably. Dredging allowed boats to move up the river and near the turn of the century the bar was removed. By this time, however the construction of railway lines and reasonable roads had lead to the demise of river transport.

The steam trains used on the rail lines required regular water points. The expansion of the rail network into the goldfields meant that numerous storage reservoirs had to be created to supply the trains. The same situation can be found on all the other major train routes (including private timber company lines). Along with the tracks a variety of bridges had to be built, where standing, these are now of historical interest. Roads also required supply stops where water could be obtained. Roads had a profound effect on the landscape; increasing the amount of surface runoff, resulting in wetland loss (many road reserves follow wetland chains), and the construction of bridges.

The timber industry used the Canning River for transporting logs downstream towards Perth. The industry is also responsible for the early pollution experienced in Victoria Reservoir, as workers were living on private land within the catchment and were contaminating streams entering the reservoir. Clearing in catchments as timber is removed increases runoff into rivers and streams. This and the extensive clearing that occurred for agriculture purposes has resulted in increased salinity within many rivers, streams, and dams (eg. Wellington Dam which was in danger of becoming too saline for even agricultural uses).

2.0 METHODOLOGY

2.1 Overview

The data collected in this study could be collected through a variety of approaches. The approach used was believed to be the most cost-effective for the time available. The details of this approach are presented below.

2.1.1 Sources Of Information

Historical information is available from documentary archival records including diaries, maps, Government and Council records, which are generally available at the Battye Library of Western Australia. This represents a primary source of data, which is best pieced together by historians. Published histories have often been prepared without specific reference to water and as such, sites or events relevant to this study may not have been recorded. The scope of this report makes it impossible for the authors to review every local history publication available, although publications have been used when information from other sources was lacking. Histories and Water Authority publications were used extensively for construction of the time line. It was not possible to check all dates against primary sources and so discrepancies may occasionally arise.

Another important source of information is local community groups such as historical associations and individuals with an historical interest or association with an area. These individuals and groups are a valuable source of relevant information and were used extensively in this study.

In addition, there are three historical agencies within the state that list places of historical and cultural heritage and legislative controls are then afforded to the said sites.

2.1.2 Contacts

Initial contact was made with the local governing body for each locality by telephone in order to obtain information on:

- 1. Local History Groups.
- 2. Other local interest groups, (Ribbons of Blue, Preservation Groups).
- 3. Information held by the local governing body, (ie, pamphlets, touring routes).
- 4. Publications produced by the local governing body.

- Names of people with long family associations with an area or a special interest in historical aspects of an area.
- 6. Tourist Information Centres.
 Contact was made with the three agencies that list sites of historical importance within the state:
- 1. The Heritage Council of Western Australia
- 2. The National Trust of Australia (WA)
- 3. The Australian Heritage Commission (Canberra)

2.2 Information Acquisition

2.2.1 Type Of Information Requested

Contact, by telephone was made with the people and organisations suggested by the local governing body. This provided an opportunity to explain the research being undertaken and to ask for assistance in completing a questionnaire (a copy of which is provided in the Appendix) relating the history of water use.

Seventy three questionnaires were posted to individuals and organisations after a telephone contact and a further twenty six sent to Land Conservation District Committee groups through the Department of Agriculture. The questionnaire was divided into several categories and responses are listed in the report with a category number relating to the type of activity undertaken relating to a respondents reply.

The categories are listed as:

- 1. First European exploration
- Historic settlement sites including farming, mining, and industry.
- 3. Water supply development: Domestic
- 4. Water supply development: Irrigation
- Land drainage, reclamation or alteration of waterways and wetlands.
- 6. Reservation of waterways and surrounding lands including recreational reserves and other reserves.
- 7. Anecdotal records of water quality, floods, and droughts.
- 8. Timber industry development and utilisation of waterways for transport etc.
- 9. Historical utilisation of aquatic flora and fauna

2.2.2 State Agencies

Contact was made with the three agencies that list sites of historical importance within the state and each agency was given a code within the report to simplify listings:

- 1. The Heritage Council Of Western Australia HCWA
- 2. The National Trust Of Australia (WA) NTWA
- The Australian Heritage Commission (Canberra) AHC

A database of listings was obtained from each agency and relevant sites listed within the report. As some localities had numerous listings, only those that could be directly associated with water were listed, according to the following criteria:

- In the case of more than five listings for any one locality then listings outside townships were included, usually homesteads which were near water as a matter of course.
- Those within the township were included if an association with water could be determined, such as on a river bank.
- 3. For those localities that had less than five listings, all were included as a matter of course.

Landscape and reserve listings have also been included as historic associations were not always easy to determine and it was considered in this report that if an area was listed by an agency then its importance as part of our cultural heritage should be noted as per the criteria below:

- A listing may not necessarily indicate historic associations but by the very fact that an area is listed as having cultural and heritage value it has to be assumed that it is of significance to the community.
- Some landscape listings are specifically noted as having historic values however all three agencies do not supply the same detail within the supplied databases.
- 3. Listed reserves often contain important water bodies of significance to the local community and there was not enough information supplied by the agency to determine which were these so it was deemed more appropriate to include them than not to.
- 4. Without boundary maps of the areas it is difficult to determine whether known historical sites fall within the boundary of an area.

In addition the Heritage Council of Western Australia in conjunction with local authorities produced a series of Heritage Trails which mapped and documented sites of historical importance for the 1988 Bicentennial and these provided a good reference guide to the more well known sites within each locality.

2.2.3 Mapping

A map of the Shire was sent out with each questionnaire. Where respondents marked localities on the maps, these were collated on a master map with a code for each locality (see Appendix 1). Where a respondent has supplied details of a location but not marked places on a map, then a description of the location has been included in the database. All places within the database where possible are supplied with location details. Where possible all sites considered to be of importance have been included on the maps. Dams, rivers and wetlands are not given a location code, but are shown on the maps. Areas of land, such as reserves, are not shown on the maps.

2.2.4 Compiling The Information

A database of all responses to the questionnaires was compiled indicating the sources of information and map references within each local government boundary. Although some shires contain only a portion of the study region, it was more practical to collect information on the overall area as most historical texts and groups operate within the local government boundary areas. Statistical and historical information was then used to create a short historical summary of each locality within the country region while the time line covers Perth city.

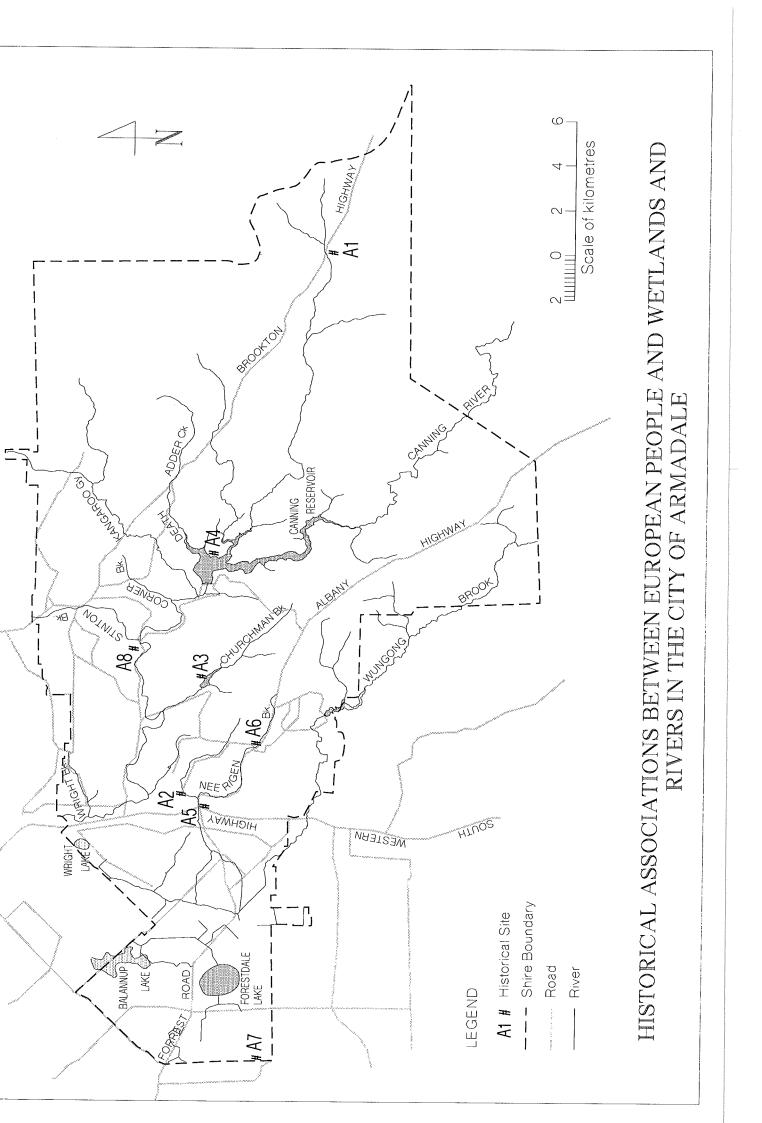
Once the data had been compiled, a draft version was sent to the Town Clerk of each Shire for comment. Approximately 50% of the Shires responded with a range of suggested changes, which were incorporated into the final report.

3.0 IMPORTANT HISTORICAL AREAS

3.1 Metropolitan Locations

3.1.1 Armadale

Land	Historic Site and/or water use	Date	Map ref	Source of information
use	Continue Discount Wheel and for timber will (Dyskin shows)	1866	Al	Mrs Margaret Bettenay
2	Canning River Water Wheel used for timber mill, (Buckingham).	1850	A1 A2	Hon Curator
2	Paradise Water Mill on Neerigen Brook, Armadale.	1830	A2	History House Museum
2	Water Wheel at Bowden's Orchard, Waterwheel Rd Bedfordale.	1910	A6	ARMADALE 6112 Ph: 397 5926
3	Earlier diversion channel at Stocker Rd Rolystone.	1866		
3	Churchman Brook Reservoir.	1929	A3	
3	Canning Dam.	1940	A4	
3	Armadale Town Water Supply, (windmill and tank).	1898		
3	Armadale Water Board.	1911		
2	Lakes Yangebup & Forrestdale- Chinese market gardens.	1900		
3	Neerigen Brook diversion.	1912	A5	
2	Orchards at Karragullen, Wongong, Bedfordale, Canningdale and Canning Mills.			
8	Buckingham Mill.	1866	A 1	
2	Lake Forrestdale used for boating and swimming.	1900-	AI	
2	Lake Porrestuate used for boating and swittining.	10		
2	Two Fords over Canning River at Kelmscott & Rolystone for	1830		
-	early coach route to Albany.	1050		
6	Declaration of Canning Reservoir Dam. Reduces flow of	1915		S. O'Brien
"	Canning River adversely affecting wildlife and gradually silting	1713		Local History Librarian,
	up the many popular local swimming spots by the 1940's.			Gosnells Library, 2240
	ap the many popular local swimming spots by the 1940 s.			Albany Hwy GOSNELLS
				6110
				Ph: 398 1210
	Port Jackson Fig, AHC database no 017406, Armadale.			AHC
	Wirra Willa Gardens, 3258 Albany Hwy Armadale.			AHC
	Moreton Bay Fig, 405 Railway Ave Armadale.			AHC
	Forrestdale Lake and adjacent wetlands. 475 ha, System 6 area			NTWA, AHC
	M95, located 23 km south of Perth & 15 km inland, south of			
	Forrest Rd. Seasonal wetland with only small areas of			
	intervening uplands			
	Gibbs Rd Wetland system, 1 km west of Forrestdale.		A7	AHC
	Araluen Park, Croyden Rd Rolystone. Natural bushland &		A8	NTWA, AHC
	historic associations			,
	Brookton Hwy 1 km strip, 8000 ha, 10 km east of Kelmscott.			AHC
	Dale Management Priority Area, 6272 ha, 30 km south east of			AHC
	Kelmscott.			
	Russell Management Priority Area, 5702 ha, 45 km south east of			АНС
	Kelmscott.			



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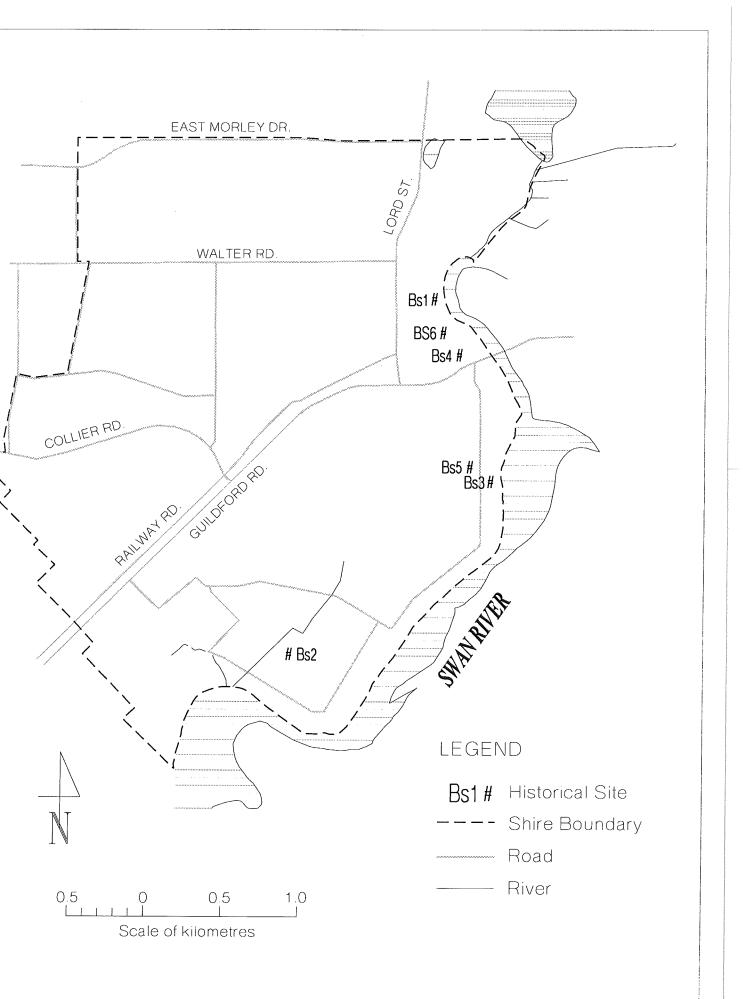
Shoesmith, M. (1973) The History Of The Armadale Township, The First Century 1829-1929. Teacher College Thesis.

3.1.2 Bassendean

Land	Historic Site and/or water use	Date	Map	Source of information
use			ref	
1	Captain Stirling and party travelled upstream, legend	1827	Bs1	Gregory Peterson
	suggests that they found good water at Success Hill,		ĺ	Chairman
	possibly wrong.			Bassendean
2	Farms along Swan River.			Preservation Group Inc
8	Use of river for transport- Fremantle to Guildford.	1829 -		PO Box 75
5	Wetlands drained for housing.	1940 -		BASSENDEAN 6054
7	Drains from industrial areas to Swan River- heavily	1920 -	Bs2	Ph: h 279 7713
	polluted, consult DEP records.			w 316 5196
2	Daylesford House, Daylesford Rd.	1890's	Bs3	NTWA, AHC
2	Earlsferry House, Nurstead Ave.	1890's	Bs4	NTWA, HCWA, AHC
2	Pensioner Guard Cottage, Surrey St.	1853	Bs5	NTWA, HCWA, AHC
6	Sandy Beach Reserve, West Rd Bassendean.			HCWA (1988bb)
2	Riverside Vineyard, Bassendean Estate, West Rd	1940's		
	Bassendean.			
2	Pensioner Guard Cottage, 1 Surrey St Bassendean.	1864	Bs5	
2	Lockridge Hotel, cnr Anzac Tce & River St	1896	Bs6	
1	Bassendean.			
1	Success Hill Reserve, Seventh Ave Bassendean.		Bs1	
	Place of freshwater spring found by Stirling on early			
	exploration.			

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HISTORICAL ASSOCIATIONS BETWEEN EUROPEAN PEOPLE AND WETLANDS AND RIVERS IN THE TOWN OF BASSENDEAN

3.1.3 Bayswater

Land	Historic site and/or water use	Date	Map ref	Source of information
use 2	Lot 289 Sanderson St (now 15 Sudlow St) 1.5 acre farmlet (subdivided),	1900's	Bal	Mr Eric. E . Fairs
	dairy and poultry farms	19003	Dai	15 Sudlow St
3	Put down bore, no scheme	1950	Ba2	EMBLETON 6062
5	Swamps all filled	1990's	Ba3	Ph: 271 7405
3	- Golf Course, most drains covered	19908	Das	FII. 271 7403
7	- Galleria, industry, housing on other swamp areas Bore water 80 grains of salt /1000 gallon (faintly acid)			
7	1			
7	Sulphate of iron (after exposure to air) in tank			
8	Household use of timber			Mrs Grace
2	Chinese Market Gardens	1000		
	- Ah Chow & Ong Hing	1898		Hardie Bayswater
	- Ah Chin, Murray St	1903		Historical Society
	- Ah Chow, Slade St	1903		PO Box 76
	- Ah Moy, Stone St	1903		BAYSWATER 6053
	- Ah Suey, Moore St	1903		Ph: 271 6871
	- On Hop, Guildford Rd	1903		
	- Sing War, Moore St	1904		
	- Suey Fong, off Grafton Rd	1904		
	- Wing Fat, Stone St	1904		
	- Chew Hing Thos, King William St	1905		
	- Clavering St	1929		
	- Coode St right from Railway	1929		
	- King Song Wah & Co, Francis & Paterson Sts	1929		
	- Ah Gee, Hayward St	1929		
	- Suey Wah, Hayward St	1929		
	- Ah Quong, King St off Beechboro Rd	1929		
	- Essex St	1929		
	- Stone St	1929		
	- Sen Lee, Stone St	1929		
2	Magnolia Tree, Beechboro Rd.			NTWA
2	Olive Tree, Slade St.			NTWA
2	Halliday House, King William St.	1880's	Ba4	NTWA, AHC
2	Ellis House, 17 Neville St Bayswater		Ba5	AHC
6	Claughton Reserve, Katanning St Bayswater.	1830		HCWA (1988bb)
1	Leake St Lookout, Leake St Bayswater. It was near this point in 1827		Ba6	
	that Stirling's party were followed by a group of Aborigines as they			
	sailed upriver. 'as we made no attempt to approach them, the warriors			
	followed us along the bank, the women and children retiring out of site.			
	The woods now resounded with their shouts, to which replied our bugle			
	with equal loudness and with more than equal melody. At this point			
	appearances wore a threatening aspect, for the natives seemed much			
	enraged, and I judged from their violent gestures and the great noise they			:
	made, that we should shortly have a shower of spears. The river here			
	was only 60 yards across, and as they had the advantage of a bank 20 ft			1
	high, our situation put us much within reach of annoyance'			
6	Bayswater Bird Sanctuary, King William St.			
1				
2	Olive Tree, Slade St.		<u> </u>	<u> </u>

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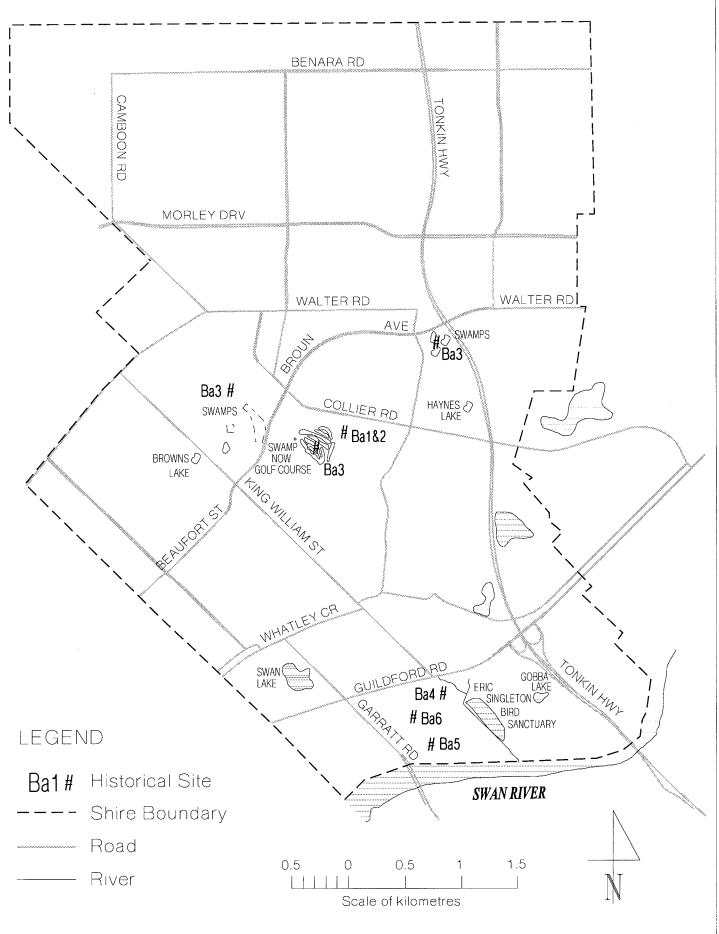
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3.1.4 Belmont

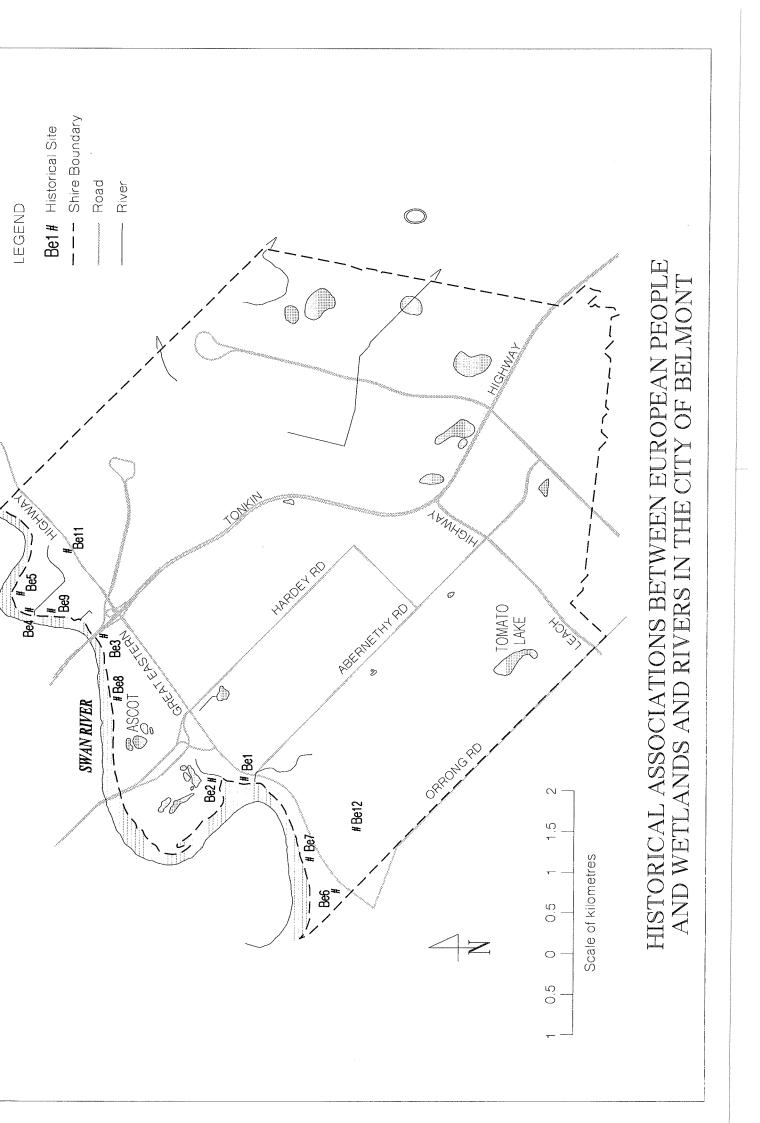
Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
1	First exploration of river by Captains Stirling & Frazer	1827		Mrs Ann Spalding
1	Commander Currie & Lt James explore upriver to survey for	1829		Secretary
	settlement			Belmont Historical
2	Drummond's Crossing, Early crossing place	to 1840's	Be9	Society Inc
				19 Ullapool Rd
2	Allocations to first settlers, small farms along riverbank	1829-30		APPLECROSS 6153
8	Potteries & brickworks. All goods poled down river by flat	1896-	Bel to	Ph: 364 4048
	bottom barges.	1920's	5	
2	Mainly pig, poultry, dairy farms & stables			
2	Horse landing for swimming racehorses		Be8	
3	Very high water table so people had their own wells			
3	Well to service travellers to the Avon Valley & Goldfields		Be6	
4	Irrigation from private bores			
5	Drainage a serious problem, South Belmont Drainage Board	1920's -		
	and Metropolitan Water Supply & Drainage Board took over	1959		
	entire district.			
7	Pollution from stable area & small industries			
7	Nutrients from gardens into the drainage system			
2	The Springs' (Cracknell Park), popular swimming area		Be7	
	Old Bristile Kilns, Grandstand St.	1910	Be10	NTWA,
	Nulsen Haven, Gt Eastern Hwy Redcliffe.	1904	Bel1	HCWA, AHC
	Rivervale Uniting Church, Gladstone Rd Rivervale.		Be12	AHC
	Perth Airport Bushland, 210 ha.			AHC

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HISTORICAL ASSOCIATIONS BETWEEN EUROPEAN PEOPLE AND WETLANDS AND RIVERS IN THE CITY OF BAYSWATER



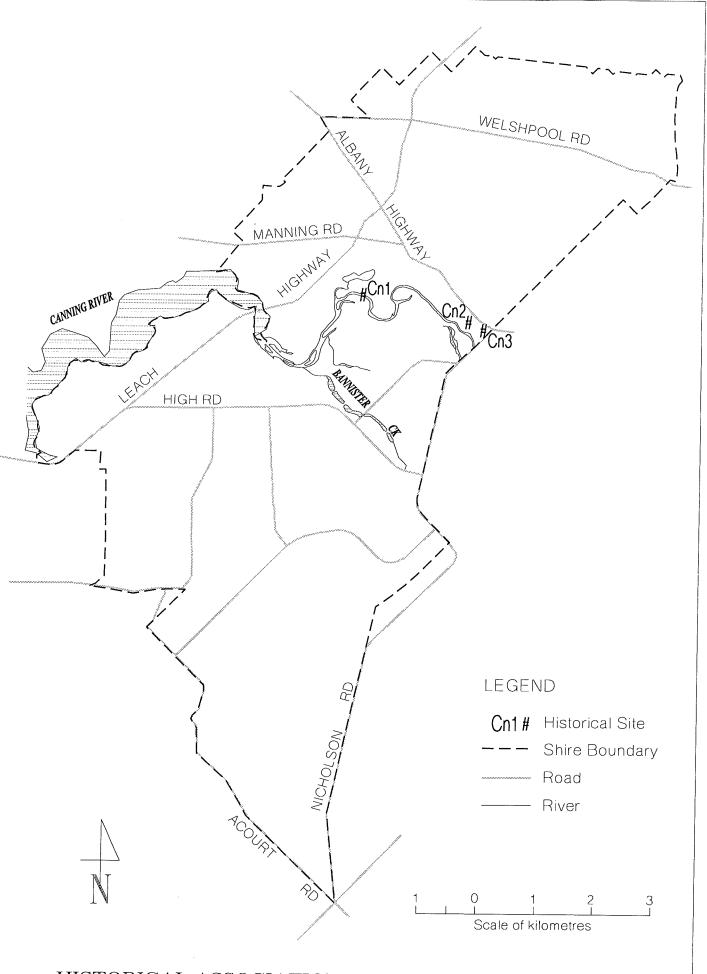
3.1.5 Canning

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
1	Captain Stirling explores the river.	1829		John Parker
				225 Hamilton St
2	Settlement occurs along the Canning.	1837-87		QUEENS PARK 6107
3	Ample freshwater supply from river and shallow wells.	1830		Ph: 451 8538
4	Canning Dam opened, water levels of river drop.	1940		
5	Bullcreek, Yagan Park drained.			
6	Water still drawn from river for irrigation.	1930's-		
		1995		
7	Poor water quality in sections due to salt encroachment.			
3	Kent St Weir built.	1950	Cn1	
8	Mason & Bird Timber Company utilise river. Barged timber	1862-82	Cn2	
	down river from Nicholson Bridge to Swan.			
2	First settlers drew water from river till opening of the Victoria			
3	Dam which supplied water to the Canning area.			
4	Market gardens along river banks using river for irrigation.			
7	Flooding in 1876, 1930.			
7	Tidal salt encroachment further upriver since the opening of			
	Canning Dam, hence the building of the Kent St Weir.			
9	Professional fishing in the area.	1920-30		
2	Woodloes Homestead, Woodloes St.	1871	Cn3	NTWA, AHC,
	Canning River Regional Park, 266ha, Ferndale.			AHC
2	Canning River Convict Fence.	1866		AHC
8	Masons Landing, Lot 1; 59 Marriamup St, Cannington.	1862-	Cn1	John Lauri
	Landing at Nicholson Rd Bridge.	1882		City of Canning
8	Landing Reserve no. 1455. Brickworks Landing. Canning River	1870+		Ph: 231 0690
8	Regional park, Bicentennial Adenia Reserve.	1887		
	Kent St Weir Park; renamed Wilson Park 1939 in Canning River			
6	Regional Park.	1930's	Cn3	
	Sikh Cemetary/Cremation Site. Canning River Regional Park.			
		1932		

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HISTORICAL ASSOCIATIONS BETWEEN EUROPEAN PEOPLE AND WETLANDS AND RIVERS IN THE CITY OF CANNING

3.1.6 Claremont

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
	Swan River area		Į	Anne-Marie Poole
1	Willem de Vlamingh and his Dutch crew sailed up the Swan	1697		c\- Caroline Crundall
	River			Claremont Museum
1	Captain James Stirling and crew explored the Swan River and	1827		66 Victoria Ave
	admired the soil and vegetation			CLAREMONT 6010
2	British settlers brought with them a variety of livestock,	1829	-	Ph: 386 3352
	equipment, seeds and plants.			
2	Colony stagnating. Agricultural failure, low returns from	1830		
	farming and grazing.			
2	Pensioner Guards established settlement along Pensioner's Row,	1850		
	(now Victoria Ave) and the convict period assisted the			
	development of the colony.			
2	Main agricultural activities of Pensioner Guard farmers-			
	-vegetable growing			
	-viticulture			
	-orchards			
	-some subsistence livestock raising			
	-limited crop growing			
7	Description by de Vlamingh, 'further on was a basin with	1697		
	brackish water, which we afterwards found was a river			
8	River commerce in goods between Fremantle and Perth.	1829		
8	Abundant timber and limestone on river.	1830		
8	Limestone conveyed by river to Perth for street and building	1860's		
	construction		ŀ	
9	Swan River teeming with fish, flathead, kingfish, tailor, snapper,	1697		
	and slapjack		1	
9	Crabs plentiful along Swan river shore, black swans, Brent-	1697		
	geese and divers spotted.		1	
	Claremont Baths area			
2	Claremont Baths opened at the river end of Chester Rd costing	1901	i	
	£750, demolished in 1972.		1	E CONTRACTOR CONTRACTO
2	Baths used for swimming carnivals, (local, state and national),			
	diving and lifesaving events			
5	Before the Baths were built, the beach from Claremont to			
	Osbourne was high and dry. The Baths must have altered water			
	movements since soon after their erection the water encroached			
	and the beaches disappeared			
7	The baths always contained bright water, free from seaweed and			
	with a clean sandy bottom			
9	The establishment of the Baths put an end to fishing and			
	crabbing from the beach as the beach area disappeared			
	Lake Claremont area, originally Butler's Swamp.			
2	John Butler was the first settler to utilise the swamp area.	1830		
2	Pensioner Guards allocated land which John Butler had been	1850's		
	using as an experimental farm			
2	Modest cottages erected by Pensioner Guards who would walk	1860's		
	from the bay foreshore to their swamp land to clear and cultivate			
	it and eventually trade surplus produce via the Swan River.			

3.1.6 Claremont (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
3	Domestic water not obtained from the swamp but from			
	underground wells/bores.			
9	Abundance of wild ducks to be found on Butler's Swamp.	1860		
	Claremont Jetty area.		Cl1	
2	Claremont Jetty built at the end of Jetty Rd.	1898		
	Jetty collapses 1987 and is rebuilt 1991.			
2	Passenger and cargo boats regularly used the jetty.	1898		
2	Jetty occasionally used to offload sheep that were driven up Bay			
	View Tce to the showgrounds			
9	Fishing and crabbing off jetty.	1898		
	Osbourne Hotel		Cl2	
2	Osbourne Hotel built by Mr James Grave.	1895		
2	The Osbourne Steps are built, descending the steep hillside to	1895		
	the river thus making swimming and boating accessible and			
	boatloads of daytrippers from Perth could land there to enjoy			
	the delights of the Osbourne Hotel.			
3	Claremont's original water supply came from an artesian well at			
	the site of the Osbourne Hotel			
3	The water tower at the Hotel supplied unlimited quantities of		Î	
	water and was capable of supplying the whole neighbourhood			
	for miles around.		1	
4	50 000 gallons of water were used every day on the expansive			
_	gardens of the Osbourne Hotel.			
7	The water was of purest quality and was raised from a depth of			
	150-200 ft out of a stratum of mixed limestone and sandstone.			
	Claremont water supply development			
3	Claremont had no clean water supply, water was simply fetched	1893		
F	from wells			
	Metropolitan Water Supply Act established.	1896		
	Installation of 18 miles of water supply reticulation.	1898-05	1	
	15 artesian bores were sunk in Fremantle, Perth and Claremont	1902-21		
_ 1	to augment supplies.			
3	The municipality rate payers had a system on demand from	1903-04		
	bores at Buttersway.	4040		
1	Metropolitan Water Supply, Sewerage and Drainage Act	1910		
	proclaimed which included Perth, Fremantle and Claremont			
	coming together under one administration	1010 10		
	Water Supply Dept began the major task of furnishing mains and drainage for all the Nedlands area. Septic tanks and out-	1912-13		
	door privies became popular and residents sunk their own wells for water.			
	The water supply at Claremont is so good that it runs the	1889		
	Publicans clean off the field'	1889		
	The Freshwater Bay School, now the museum, 66 Victoria Ave.	1952	Cl2	HOWA (10004)
1	Claremont Jetty	1853	C13 C11	HCWA (1988d)
	"The Mansions", Victoria Ave, Claremont.	1898		
	Bethesda Hospital, Victoria Ave.	1897	Cl4	
1	The Osborne Steps, Jetty and Hotel, Richardson Ave.	1880's 1895	Cl5 Cl2	
$\frac{2}{2}$	Claremont Baths, (demolished 1972).		CIZ	
	Clarentont Danis, (acmonstica 17/2).	1901		

3.1.6 Claremont (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Lake Claremont, farmland/gardens, watering point.	1850's		
2	Lake Claremont/Stirling Rd posts which marked the edges of the	1850's		
	original Stirling Rd alignment, visible from the path beside Lake			
	Claremont.			
2	Mason's Gardens, Riley Rd 1890's-1939. When the water table	1890		
	swamped the trees and plants Mason abandoned the gardens and			
	the property was sold to the Nedlands Road Board and used as a			
	tip until the 1960's.			
2	Watson's Orchard, Bernard St	1900's		
2	"Riverside", 51 Victoria Ave Claremont.	1890	C16	
2	Edith Cowan University, Claremont Campus, inc Grounds,		Cl7	NTWA, AHC, HCWA
	Goldsworthy Rd.			
2	"The Mansions", Victoria Ave, Claremont.	1897	Cl4	NTWA, AHC
2	"Riverside", 51 Victoria Ave Claremont.	1890	Cl6	NTWA
2	Claremont Museum, 66 Victoria Ave Claremont.	1853	C13	NTWA, AHC
2	Mews Boat Shed, 8 Victoria Ave Claremont.		Cl8	AHC
2	Swanbourne Hospital Conservation Area, Davies Rd Claremont.			AHC

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3.1.7 Cockburn

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Land grants and early farming settlements around the chain of			Extracts from: Cockburn -
	lakes from North Lake to Banganup Lake, Manning Lake,			The Making of a
	Lakes Henderson & Coogee			Community
7	Western chain of lakes were saline			Courtesy of;
7	Eastern chain of lakes were fresh.			Arlene Crane
				Secretary Historical
2	Pensioner Guard sites and village around Lake Coogee -	1880's		
İ	established vegetable gardens.			
2	Farming around lakes included market gardens & dairy.			Society of Cockburn
2	Davilak House and Estate built south of Davilak Lake.	1866	Cb1	27 Freeth Rd
	-planting of orchards, vineyard.		i	SPEARWOOD 6163
	-timber cutting from thick forest around swamps.			Ph: w 411 3444
	-farming of Devon cattle and Arab horses.			h 418 4090
	-65 ft deep well of fresh water.			
2	Joseph Meller mud brick home site, Hope Rd Jandakot.	1 88 0's		
8	Timber cutting for many years on William Gadds land north of	1887		
1	Leeming Rd.			
2	Azelia Ley Homestead inc garden settings and associated farm	1905	Cb2	NTWA, AHC, HCWA
	buildings, Manning Estate Spearwood			
2	Reformed Baptist Church, 15 Mell Rd Spearwood, near swamp.	1916	Cb3	NTWA, AHC

3.1.7 Cockburn (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Coogee Beach Group, 358-60 Cockburn Rd Coogee.			AHC
2	Woodman Point Quarantine Station Complex, Woodman Point.		Cb4	AHC
6	Reserve 7756, 44 ha, Jandakot.			AHC
6	Jandakot Airport Area, 400 ha, Jandakot.			AHC
6	Beeliar Wetlands, 2700 ha, Success.			AHC
6	Thomson Lake Reserve, 509 ha, Success.			AHC

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3.1.8 Cottesloe

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
	Early water use-			Miss Pat Adamson
3	Domestic			9A Andrews Pl
	-Rainwater tanks, wells and windmills, bores and later the			COTTESLOE 6011 Ph:
	Osborne supply extended to selected houses			384 5257
4	General			
	-Road maintenance, (road rollers), watering street trees, water			
	troughs for horses, stock and local pound, drinking water,			
	sanitary works, hydrants and recreational reserves			
3	Standpipe water supply, cnr of Napier St & Cottesloe Ave.			
3	Concrete tanks constructed on Congdon St.	1905-57	Ct1	
2	Cottesloe has several listings with the NTWA and AHC, none			
	of which are located near a water source, excluding the ocean,			
	which is not part of this study			

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James, R.M. (1992) Heritage Of Pines, A History Of Cottesloe. Town of Cottesloe.

3.1.9 Fremantle & East Fremantle

Land	Historic site and/or water use	Date	Мар	Source of information
use	Tribedite site und of water use	Date	ref	Source of information
3	Metropolitan Sewerage Plans for Fremantle, East Fremantle,	1907-50's	101	Local History Collection
İ	North Fremantle, marks location of wells	1707-303		Fremantle City Library
3	Fremantle Water Supply Maps, (show wells) MSW & DD Plan	22/2/13		PO Box 807
	no 2226	22/2/13		FREMANTLE 6160
5	Reclaiming of wetlands around the two bridge sites	1900's		Ph: 430 2239
6	Swan & Canning Rivers- Dept of Marine & Harbours 1987	1,000		111. 130 2237
2	Water supply to ships at Anglesea Pt from reservoir in	1872	F1	Ann Brake
	Fremantle Prison			Curator
3	First domestic water supply to Fremantle from reservoir in	1890's		Fremantle Prison
	Fremantle Prison			The Terrace
7	Increased brackishness of Fremantle water Ref: O'Brien	1899		FREMANTLE 6160
	Carroll's House, 15 Riverside Dve, East Fremantle.	1900's	Ef1	HCWA (1988f)
2	Seven Sisters Quarry platform, Rocky Bay.			HCWA (1988y)
2	"Knocknagow", 24 Preston Point Rd, East Fremantle.	1894	Ef2	NTWA, AHC
2	"Aldgate" 28 Preston Point Rd, East Fremantle.	1900	Ef3	NTWA, AHC
2	15 Riverside Rd, East Fremantle.	1900	Ef1	NTWA
2	West End Conservation Area, (large area within Fremantle			NTWA, AHC
	town).			
2	"Hillcrest" Salvation Army Home, Harvest Rd North	1890's	F2	NTWA, AHC
	Fremantle.			,
2	Turton House, Harvest Rd, North Fremantle.	1897	F3	NTWA, AHC
	House and Grounds, 91 Preston Point Rd East Fremantle.		Ef4	AHC
	Harvose Grounds and Front Fence, 1 Surbiton Rd East			AHC
i i	Fremantle.			
	Stirling Bridge, Stirling Hwy Fremantle.		F4	AHC
	Victoria Quay, Fremantle.		F5	AHC
6	Woodman Point Natural area, 154 ha, 9 km South Fremantle.			AHC
2	Glanville's Buildings, 5 Riverside Rd East Fremantle.	1902	F6	HCWA
2	Fremantle Prison, Terrace Rd Fremantle.	1851	F1	HCWA

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3.1.10 Gosnells

Land	Historic site and/or water use	Date	Map	Source of information
use	·		ref	
2	Market Gardens of H.S. Packer & G.C. Hersey	1906		Mr E.M. Packer
3	Dam on river near Nicholson Rd to keep salt back.	1908	Go1	31 Verna St
			1	GOSNELLS 6110
4	Oil driven water pumps provide first overhead irrigation of			Ph: 398 3900
	* two acres	1906		
	* seventy acres	1936		
4	Wineyard Water Bore		Go2	
2	Rupert St market gardens, 7 pumps, 5 domestic wells.	1900	Go3	
2	Murphy's Creek market gardens, 4 pumps, 5 domestic wells, 1900. 2 pumps in 1930.	1900	Go4	
5	Murphy's Creek enlarged to drain East Cannington by Road Board.			
7	Poison passed into river from chemical factory at Thornlie	1958		
7	Personal observation of water quality deterioration and fish	1955-95		
	deaths .			
2	Jabez White developed farm and established flour mill.	c1862	Go5	Mrs M. Lefevre
4	First artesian bore put down by H. Passmore and a team of	c1872	Go6	Lot 103 Hardinge Rd
	convicts near the bridge over the Canning River at Gosnells.			ORANGE GROVE 6109
5	Swamp area bounded by Tonkin Hwy, Kelvin Rd and Dale	1950's	Go7	Ph: 459 1969
	Place drained early 1950's.			
7	1958 aerial survey maps show wetlands within the City			
	boundary, most of which have since been filled in.			
7	Bore put down by Passmore capped around 1913 due to the			
	highly mineralised water flowing into the river to the detriment			
	of the citrus orchards.			
6	Declaration of Bickley Brook catchment area.	1912		S. O'Brien
				Local History Librarian,
				Gosnells Library, 2240
				Albany Hwy
				GOSNELLS 6110
				Ph: 398 1210
8	Mason & Bird Timber Tramway, Hardinge Rd, Carmel.	1872	1	HCWA (1988m)
	Remains of the old Boy Scout Camp. Hardinge Rd, Carmel.		Go8	
	Remains of the Boys Brigade Camp. Hardinge Rd Carmel.	1960's	Go8	
	Munday Brook Bridge and convict built roadway., Hardinge	1871	Go8	
	Rd, Carmel.			
	Devil's Pinch, Hardinge Rd Carmel.		Go8	
	Old Gardens, Hardinge Rd Carmel.	10.665	Go8	
	Kaolin Pits, Hardinge Rd Carmel.	1960's	Go8	
	Site Of Old Mill Town, Hardinge Rd Carmel	1883	Go8	
	Site Of Mason's Mill, Hardinge Rd Carmel.	1876	Go8	NEWLANIC
	Maddington Homestead, Lot 65 Olga Rd.	1836	Go9	NTWA, AHC
1	Kenwick Pioneer Cemetery, Albany Hwy Kenwick.		Go10	
l i	Brixton St & Associated Wetlands, 126 ha, Kenwick.			AHC
6	Ellis Brook Valley Reserve, Martin, AHC DB No 018105			АНС

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3.1.11 Kalamunda

Land	Historic site and/or water use	Date	Мар	Source of information
use			ref	
1	First exploration mid 19th century.	1860+		Kalamunda &
2	Little or no agriculture, timber followed by orchards and			Districts Historical
	strawberries.			Society
3	Rainwater tanks and wells until 1954 when scheme was	1954		KALAMUNDA 6076
	connected			
4	Orchards had own wells and/or reservoirs, some drew from			
	streams (this applies today)			
6	Refer to Roads Board/Shire Council			İ
8	Extensive timber industry 1860-1940	1860-40		
	Water for steam engines from streams			
3	Victoria Reservoir	1891		
3	Mundaring Weir	1903		
2	"Lesmurdie House" and orchard built by A.Sanderson.	1898		
2	Owen property - orchard/poultry Canning Rd Carmel.	1893		
2	"Heidelburg' orchard, Bickley by G. Palmateer.	1893		
2	"Ridge Hill Farm", Gooseberry Hill by J. Weire.	c. 1900		·
2	"Orangedale", Walliston by J. Wallis.	1883		Y
2	"Carmel College", Carmel.	1902		
2	Dawsons's Nursery/Garden Centre, Forrestfield.	1914		
3	Munday's Brook diversion channel and bypass to Victoria	c. 1896		
	Reservoir.			
8	"The Dell", site of Port & Honey's Timber Mill, Mundaring	c. 1900		
	Weir Rd.			
8	"Canning Mills" Site.	1889	<u> </u>	
2	Returned Soldiers Settlement Scheme, along Piesse Brook	1918		HCWA (1988c)
	from Pickering brook to where it is crossed by Mundaring			
	Weir Rd			
8	Mason Mill site, Masons Mill Rd, Carmel. Situated by Bickley	1860's-		
	Brook, used steam powered circular saw.	1882		
3	Victoria Reservoir at Mundays Brook opened, 30 Sept.	1891		S. O'Brien
				Local History Librarian,
7	Reports of pollution from Gibb's Forest Inn and the Mills	1892		Gosnells Library, 2240
	entering Mundays Brook, detection of typhoid in Brook			Albany Hwy GOSNELLS
				6110
			ļ	Ph: 398 1210
2	Stirk Cottage, Kalamunda Rd.	1881	Ka1	NTWA, AHC
2	Uniting Church, Railway Rd, Kalamunda.	1918	Ka2	NTWA, AHC
2	Kalamunda Agricultural Hall, Canning Rd, Kalamunda.	1896	Ka3	AHC
6	Gooseberry Hill National Park, 33 ha, 4 km NW Kalamunda.			AHC
6	Kalamunda National Park, 375 ha, 1 km NE Kalamunda.			AHC
6	Lesmurdie Falls National Park, 56 ha, 3 km SW Kalamunda.			AHC

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3.1.12 Kwinana

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Water used for farming and domestic use from Long Swamp.	1830-20	Kw1	Mr Leslie Greenham
				6 San Miguel Rd
2	Lugg's Dairy Farm, Wellard Rd.	1920's?	Kw2	HOPE VALLEY 6167
				Ph: 410 1365
2	Leda West, (Inc Sloanes Reserve), 60 ha immediately south of		Kw3	NTWA, AHC
	Kwinana Town on Wellard Rd, including Sloanes Cottage.			
2	Postan's Cottage, Lot 241, Hope Valley.	1860	Kw4	NTWA
2	Smirk's Cottage, Beacham Cr, Medina.	1905	Kw5	NTWA, AHC
2	Key cottage, Lot 49 Wellard Rd.	1841		NTWA
2	Greenkeeper's Cottage, Lot 8 Wellard Rd.	1890's	Kw6	NTWA, AHC
2	Sloanes Reserve or "Woodlands", part of farm off Wellard	1911		NTWA, AHC
	Rd.			,
6	Bollard Bulrush Swamp, 400 ha, 10 km south east of		Kw7	AHC
	Kwinana.			•
6	Modong Nature reserve, 154 ha, 8 km east of Medina.			AHC
6	Leda Area, 250 ha, 8 km east of Rockingham.			AHC
6	Wandi Nature Reserve, 30 ha, Wandi.			AHC

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3.1.13 Melville

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
1	Point Heathcote, freshwater springs.	1827	Me1	Anne Reid
1	Early land grants on river, Bicton - Bullcreek.	1830-		Research Secretary
2	Stock grazing on river flats, poultry farmers around Alfred		Me2	Melville Historical
	Cove south			Society
3	Wells prior to Road Board,(1901).			6 Hill Pl
	Water development continues with new suburbs, reservoir in	1950's-	Me3	ATTADALE 6156
	Melville.	1995		Ph: 330 2642
4	Blue Gum Lake used for market garden.	1920's?	Me4	
8	Piney Lake- Nursery for Sommerville plantation.	1926-27		
5	Some land drainage around Bullcreek.	·	Me5	
6	Beeliar Wetlands Park, (Blue Gum, Booragoon & Piney			
1 1	lakes).			

3.1.13 Melville (contd)

Lond	Historic site and/or water use	Date	Map	Source of information
Land	Historic suc and/or water use	Butt	ref	
use 6	Bullcreek/Yagan Park.		Me6	·
6	Myaree Marmion Reserve.		Me7	
7	Blue Gum Lake good for watering stock on way to Midland.			
8	Much felling of big timber around Blue Gum, Piney and	1910-20		
0	Booragoon Lakes.	*>10 =0		
1	Stirling found springs at Point Heathcote and planted a garden			
1	to test the soil.			
2	All early pioneers from Duffield at Bicton to Bateman at			
_	Bullcreek used the river for timber and produce transport and			
	as a means of travel.			
8	Shipbuilding yards were located on river, at least two Ferries			
į	began early this century.			
2	River area became a holiday destination with camping sites at			
	Point Walter and Applecross.			
5	Massive changes in foreshore due to infilling.			
5	Removal of foreshore vegetation.			
7	Fishing patterns have changed.			
9	Oyster Beds at Bicton.	1900-17	Me8	
1	Governor Stirling explored the area in 1827 and considered it	1827		HCWA (1988n)
	to be the best site for Perth			
2	Land grants to John Duffield and Alfred Waylen.	1830	•	
2	Point Dundas & Majestic Hotel.	1897		
2	Raffles Hotel.	1896	Me9	
2	Bateman's Landing & Homestead, Pulo Rd.	1886		
8	Attadale Jetty Site, end of Stock Rd, (buried by land		Me10	
	reclamation)	1000		
8	Brick Landing Site, Attadale Reserve, (buried by land	1900		
	reclamation).	1011		
8	German Jetty Site, Melville Beach Rd.	1911	N/a11	
8	Original Applecross Jetty site, Jeff Joseph Reserve.	1890's	Me11	
8	Coffee Pt Boatyard.	1890's	14.0	
2	Bicton Jetty Area, Rob Campbell Park.	1006	Me8	
2	Blackwall Reach	1896		
6	Point Walter reserve.	1907		
2	Alfred Cove.	1012	Mo12	NTWA, AHC
	Wireless Hill Museum Group & Park, 48 ha, Canning Hwy.	1912 1869	Me12 Me1	NTWA, HCWA
	Heathcote Hospital Precinct, Duncraig Rd Applecross.	1886	Me13	NTWA, AHC
	"Grasmere", 12 Pulo Rd Brentwood.	1000	IVIC13	AHC
	Alfred Cove/Pt Waylen area, 150 ha, AHC DB 017818.	1913	Me14	NTWA, AHC,HCWA
	Applecross Primary School, Kintail Rd.	1713	Me15	AHC
	Bateman House, Spinaway Cr Brentwood.		1,1013	AHC
	Blue Gum Swamp, 8 ha, Melville.	<u> </u>		11110

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3.1.14 Mosman Park

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
3	Buckland Hill Reservoir.	1925	Mo1	HCWA (1988y)
2	Minim Cove Spring (buried by tip activities).			
2	Town of Mosman Park Historic Buildings Policy (precinct)			NTWA
2	Buckland Hill, Chidley Point, Mosman Bay Area.			AHC
2	Leighton Battery, Stirling Hwy Mosman Park.			AHC
6	Mosman Bay, 5.12 ha, Mosman Park.			AHC

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3.1.15 Mundaring

Land	Historic site and/or water use	Date	Мар	Source of information
use			ref	
3	Chidlow's Well. cnr Thomas & Old Northam Rd.	1830's	Mu1	HCWA (1988v)
8	Wooroloo Steam Sawmill, Wooroloo.	1890's		
8	Lacey's Enterprise Steam Sawmill, Sawyers Valley.	1880's		
3	Mahogany Creek, watering place & barracks.	1839		
3	Mundaring Weir	1903		
3	Nyaania Creek diversion for railway.	1883		
2	Jane Brook Bridge, John Forrest National Park. (original	1925	Mu2	HCWA (1988a,j,k)
	bridge site of 1895)			
2	National Park Station site, John Forrest National Park.	1936		
2	Main Camp Site, on Jane Brook during construction of the	1894		
	Mahogany Creek deviation			
2	Deep Creek Bridge now buried under an embankment.	1890's		
3	Bilgoman Well at tea-tree swamp site.	1846		
2	Weir Hotel, Mundaring weir,	1900's	Mu3	
3	No 1 Pumping Station- O'Connor Museum.		Mu4	
3	Chauncey's Spring, Fagan St, Sawyers Valley.	1873		
6	Blackboy Hill Commemoration Site, 5514m ² , Innamincka Rd,			NTWA, AHC
	Greenmount. Historic - First World War Army Units formed			
	here.			
3	O'Connor Museum, Mundaring Weir Rd Mundaring.	1902	Mu4	NTWA, AHC, HCWA
2	Old Weir Hall, Mundaring Weir Rd Mundaring.	1906		NTWA, AHC
2	"Holmesdale", Darlington Rd Darlington.	1890	Mu5	NTWA
2	"Belle View" Farm, Pascoe St Bellevue.	1887	Mu6	NTWA
2	Former Smiths House, Harold St Glen Forest.	1880's	Mu7	NTWA, AHC
2	"Springside" former McGlew Homestead, Springside Cr, Glen	1844	Mu8	NTWA
	Forest			
2	Clayton Farm, Clayton Rd Helena Valley.	1878	Mu9	NTWA, AHC
	Traveller's Inn Ruins, Gt Eastern Hwy / Gt Southern Hwy,	1848	Mu10	NTWA, AHC
	The Lakes.			·
2	Mahogany Inn, Gt Eastern Hwy, The Lakes.	1839	Mu10	NTWA, AHC
2	Tudor Park Stud, Flynn Rd Chidlow.			AHC

3.1.15 Mundaring (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Hall, McGlew Rd Glen Forrest.			AHC
2	Katherine's Place, 11 Old York Rd Greenmount.		Mu11	AHC
6	Beechina Reserve, 59 ha, 4 km east of Chidlow.			AHC
6	Greenmount National Park, 56 ha, Greenmount.			AHC
6	Wooroloo Woodlands, 250 ha, 12 km west of Wooroloo.			AHC
2	Eastern Railway - Three Bridges in John Forest National			HCWA
	Park.			
2	Eastern Railway Tunnel near Curve Rd Swan View.	1895		HCWA

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3.1.16 Nedland

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
6	Shenton Park bushland, Stubbs Tce, 20 ha, historical			NTWA
	associations.			
2	Gallop House, Birdwood Pde Dalkeith.	1877	Ne1	NTWA, AHC, HCWA
2	Sunset Hospital and Grounds, Birdwood Pde Dalkeith.	1904	Ne2	NTWA
	Historical - early Army Depot, then poorhouse, then old men's			
	home then hospital.			
2	Swanbourne Hospital Conservation Area, Davies Rd, Mt	1900's		NTWA, HCWA
	Claremont			
2	Nedlands Marina, Former Baths, Swan River foreshore.	1901	Ne3	NTWA
2	Gardens of UWA, Nedlands.		E	AHC
6	Norfolk Island Pine, AHC DB No 015823, Karrakatta.			AHC
2	"Hot Pools" - Nedlands Foreshore, near Tawarri.			Jim Elliot
				City of Nedlands
1				Ph: 386 6900

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3.1.17 Peppermint Grove

Land	Historic site and/or water use	Date	Map	Source of information
use	·		ref	
1	Vlamingh's party landed at Cottesloe Beach and walked cross to the river, probably at the foot of Keane St, calling the water body Black Swan Lake, to be changed when they discovered the mouth of the Swan.	1697		Barbara Evans & Margaret Evans 60 The Esplanade PEPPERMINT GROVE
2	Swan location 84 granted to John Butler in 1832 for a farm and granted a licence for an Inn.			Ph: 384 2927
2	Later there is limestone quarrying in the area.			
3	Water supply originally from Swanbourne.			,
3	Many private bores. originally windmill driven, now electric.			,
7	Of recent years many bores have gone salty due to water table changes.			
3	In earlier days a spring located at foot of Keane St?			
6	Lover's Walk - Cliff below Esplanade from Zigzag to Leake St.	1895?		
7	In the years 1915-1918, water in the bay was very much fresher in winter.			
8	Private woodcutters were active here in last century.			·
9	Commercial and hobby fishermen used this area intensively before subdivision			
7	Freshwater was always available on the beach (of the river) by			
. /	digging a small hole as the kangaroos and brumbies did.			
3	A spring was also located in the river at the Karrakatta Bank off			
	Claremont.			
3	Shire well in Manners Hill Park, cnr Bay View Terrace and Johnson St, water obtained at 10 ft			
3	An underground stream flowed from shire well site down to the lane into Keane St, opp Bay View Tce			
3	Well and windmill on Butler's property at Keane St opp Bay View Tce with water at 20 ft.			
3	Vegetable gardens in this vicinity, definitely where Irvine St is now and just beyond View St to the west, before the subdivision of the 1890's.	1890'S		
2	Cave near Scotch College boatshed.			
2	"The Cliffe", Bindaring Pde Peppermint Grove.	1894	Pg1	NTWA, AHC
2	Cottesloe Primary School, Stirling Hwy.	1897	Pg2	NTWA, AHC, HCWA
2	Old Cottesloe Police Station, Stirling Hwy.	1908	Pg3	NTWA, AHC
2	Coppin's Store, 502 Stirling Hwy.	1,00	- 67	AHC
2	Manners Hill Park Pavilion, Keane St.		Pg4	AHC
6	Keanes Point Reserve, 2 ha, Peppermint Grove.		* 5	AHC
2	Royal Freshwater Bay Yacht Club, Peppermint Grove	1892	Pg5	HCWA (1988d)
2	Manners-Hill Park, Keane St.	<u> </u>	L	<u> </u>

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3.1.18 Perth (Vincent, Shepparton, Cambridge, Perth)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	St George's College Campus Gardens, 0.5 ha, in grounds of UWA. Historical - association with Sir Winthrop Hackett and Sir J Talbot-Hobbs.			NTWA
2	Stirling Gardens, (Government Gardens), 0.9 ha, St George's Tce. Historical - The first horticultural development of the colony.			NTWA
3	Low Level Sewage Pumping Stations, Swan River Foreshore, (buildings)			NTWA
3	Pump No 1, Causeway/Riverside Dve.	1914		NTWA
3	Pump No 2, Langley Park near Hill St.	1914		NTWA
3	Pump No 3, Mounts Bay Rd/Mill St.	1913		NTWA
2	Former Stable Block, Swan Brewery Complex, Mounts Bay	15.10	P1	NTWA, AHC
_	Rd.		^ ^	
2	Old Swan Brewery Precinct, Mounts Bay Rd.		P1	HCWA
3	Governor Kennedy's Fountain, Mounts Bay Rd.	1861		NTWA
2	WA Rowing Club Boatshed, on Swan River near Barrack St.	1905		NTWA, AHC, HCWA
2	St George's College, UWA, Mounts Bay Rd Crawley.	1930		NTWA
2	Old Zoology Building, UWA, Mounts Bay Rd Crawley.	1923	P2	NTWA
2	Plane Trees, Mounts Bay Rd.	1920	1 -	AHC
6	Kings Park and Botanic Garden, Kings Park Rd.			AHC
6	Bold Park and Adjacent Bushland, 450 ha, City Beach.			AHC
6	Matilda Bay Reserve, AHC DB No 010761, Perth.			AHC
2	East Perth Power Station, Summers St.		P3	HCWA
2	Queen's Gardens, cnr Hay and Plain Sts. These gardens were	1899		HCWA (1988t)
	originally the East Perth Clayfields Reserve and in 1899 the			,
	council landscaped and transformed the claypits into lily			
	ponds.			
1	Claise Brook. The camp site of Willem de Vlamingh and his party in 1687	1687		
1	The Brook was named by Stirling in 1827 after the surgeon on board 'H.M.S Success', F.R. Clause	1827		
7	Claise Brook's fresh waters once flowed from a wide lagoon			
	known as Tea Tree Lake which was connected to a chain of			
	lakes which connected to Lake Monger, the Hyde Park lakes			
	being the only significant ones remaining.			
5	WACA Ground and Gloucester Park, Waterloo Cr. This area	1880's		
	was originally a large swamp surrounded by saltbush			
5	Wellington square, originally one of Perth's swamps it was	1830's		
	drained and established as a public reserve in the 1830's.			
5	Langley Park, was created by land reclamation in response to	1921-35		
	the need for public open space near the city.			
2	Lake Monger and surrounding reserve. Used recreationally by			Ms S. Linehan
	early settlers for boating and swimming and also for waterbird			Town of Cambridge Ph:
	hunting.			347 6055

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Moore, G.F. (1978) Diary Of Ten Years Of An Early Settler In Western Australia. UWA Press, Western Australia

3.1.19 Rockingham

Land	Historic site and/or water use	Date	Map	Source of information
use		100-	ref	D 1 1
1	Settlement on Garden Island	1829		Rockingham
2	Settlement in East Rockingham area mainly around freshwater	1850's		Historical Society (Inc)
	swamps.			PO Box 504
2	Farming at East Rockingham.	1850's		ROCKINGHAM 6158
2	Peel Estate Group Settlement Scheme.	1920's		Ph: 592 3455
3	Wells sunk by the early settlers			
5	Drains dug in the Peel Estate and Serpentine River area.	1920's		
6	Lakes Cooloongup, Walyungup and Richmond are all			
	gazetted public open space.			
8	The timber industry of the Jarrahdale-Rockingham area is well			
	documented in the book, "The Sea & The Forest".			
9	See book, "Flora & Fauna of the Rockingham Foreshore			
	Island & Cape Peron."			
3	Stirling's Well, Garden Island			Rockingham & Districts
				Tourist Authority
1	William de Vlamingh expedition along coast.	1696		HCWA (1988s, w)
2	French expedition under the command of Nicholas Baudin	1800's		
	names Cape Peron, Garden Island & Carnac Island			
2	Ship 'Rockingham' runs aground.	1830		
2	Peel attempts to establish settlement.	1830		
2	Rockingham town gazetted.	1847		
2	Districts first families settle in East Rockingham area along a	1850's		
	fertile strip of swampy country several miles from the coast.			
2	Mead Home, Mead Rd. Site originally chosen due to	1895	R1	
1	proximity to swamp.			
	Lucy Saw Home originally known as 'Lakeside'.	1920		
E	Lake Cooloongup, favoured picnic spot.	1920's		
	Duck shooting at Lake Cooloongup.	1920's		
2	"Day Cottage", Day Rd East Rockingham.	1885	R2	NTWA, AHC
	Chesterfield Inn, Rockingham Rd East Rockingham.	1856	R3	NTWA
2	"Bell Cottage", Mandurah Rd Baldivis.	1880's	R4	NTWA, AHC
2	Cape Peron Battery Complex, Point Peron Rd Rockingham.		R5	AHC
6	Beenyup Swamp, 15 km south east of Rockingham.			AHC
- 1	Folly Pool, 50 ha, 15 km south east of Rockingham.			AHC
	Lake Richmond area, 80 ha, Rockingham.			AHC
	Lakes Cooloongup & Walyungup & Surrounds, 2700 ha, 6			AHC
	km south east of Rockingham.			
	Maramanup Pool, 50 ha, 18 km south east of Rockingham.			AHC
6	wiai amanup rooi, 30 na, 16 km south east of Kockingham.		<u> </u>	IMIC

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3.1.20 South Perth

Peninsula set aside as a suburban extension of Perth by Stirling. Artesian Bore at Zoological Gardens, (frequented as mineral baths 1930's-1950's) Old Mill, on river at Mill Pt Close. 1835 Sp2	Land	Historic site and/or water use	Date	Map	Source of information
Artesian Bore at Zoological Gardens, (frequented as mineral baths 1930's-1950's) Old Mill, on river at Mill Pt Close. Miller's Pool at Old Mill site now reclaimed land. Site of Haddon Hall, South Perth Esplanade Mends St Jetty, (original built). Como Beach & jetty, popular holiday resort. Site of Manning Homestead & Dairy, South Perth foreshore. Racecourse & Polo Ground, South Perth foreshore. Racecourse & Polo Ground, South Perth foreshore. Pishing Point Belches, Canning Bridge, camping near the Old Mill. Horse Ferry, Mill Pt Rd to Mt Eliza. Occasional private steam ferries to Perth. Proposed commercial fishery. Vineyard, Charles Tondut. Ferry service from Mends St, 'Duchess'. Clotharf Boys Home and jetty, previously a landing area for timber and produce trades. Dairy, piggery and poultry farming as well as cropping at Boys Home. Piggeries established on South Perth foreshore (prohibited by law 1924). Boat houses on foreshore. Major flooding of Mill Pt area. Depression camps at Canning Bridge. Algal bloom at Como Beach makes swimming unpleasant. 1840's 1852 Sp2 South Perth Heritage House 111 Mill Pt Rd SOUTH PERTH 6151 Ph: 474 1870 Sp5 Sp4 Heritage House 111 Mill Pt Rd SOUTH PERTH 6151 Ph: 474 1870 Sp5 Sp5 Sp6 Sp7 Sp7 Sp7 Heritage House 111 Mill Pt Rd SOUTH PERTH 6151 Ph: 474 1870 Sp5 Sp6 Sp7 Sp7 Heritage House 111 Mill Pt Rd SOUTH PERTH 6151 Ph: 474 1870 Sp5 Sp6 Sp7 Sp7 Heritage House 111 Mill Pt Rd SOUTH PERTH 6151 Ph: 474 1870 Sp5 Sp7 Sp7 Heritage House 111 Mill Pt Rd SOUTH PERTH 6151 Ph: 474 1870 Sp6 Sp7 Sp7 Heritage House 111 Mill Pt Rd SOUTH PERTH 6151 Ph: 474 1870 Sp7 Sp7 Heritage House 111 Mill Pt Rd SOUTH PERTH 6151 Ph: 474 1870				ref	
baths 1930's-1950's) 2 Old Mill, on river at Mill Pt Close. Miller's Pool at Old Mill site now reclaimed land. Site of Haddon Hall, South Perth Esplanade Mends St Jetty, (original built). Como Beach & jetty, popular holiday resort. Site of Manning Homestead & Dairy, South Perth foreshore. Racecourse & Polo Ground, South Perth foreshore. Code St Jetty. Chinese market gardens, Sir James Mitchell Park. Fishing Point Belches, Canning Bridge, camping near the Old Mill. Horse Ferry, Mill Pt Rd to Mt Eliza. Occasional private steam ferries to Perth. Proposed commercial fishery. Vineyard, Charles Tondut. Ferry service from Mends St, Duchess'. Clontarf Boys Home and jetty, previously a landing area for timber and produce trades. Dairy, piggery and poultry farming as well as cropping at Boys Home. Clottarf. Boat houses on foreshore. Piggeries established on South Perth foreshore (prohibited by law 1924). Boat houses on foreshore. Piggeries established on South Perth foreshore (prohibited by law 1924). Boat houses on foreshore. Major flooding of Mill Pt area. Depression camps at Canning Bridge. Algal bloom at Como Beach makes swimming unpleasant. 1835 Sp2 Sp2 South Perth Heritage House 111 Mill Pt Rd SOUTH PERTH 6151 Ph: 474 1870 Sp5 Sp5 Sp5 Sp5 Sp6 Sp7 Sp7 Sp7 Sp7 Sp7 Sp7 Sp7		· · · · · · · · · · · · · · · · · · ·			HCWA (1988x)
2 Old Mill, on river at Mill Pt Close. 1835 1938 2 2 Miller's Pool at Old Mill site now reclaimed land. 1938 1897 1894 2 2 2 2 2 2 2 2 2	2	, · · ·	1898	Sp1	
Miller's Pool at Old Mill site now reclaimed land. Site of Haddon Hall, South Perth Esplanade Mends St Jetty, (original built). Como Beach & jetty, popular holiday resort. Site of Manning Homestead & Dairy, South Perth foreshore. Racecourse & Polo Ground, South Perth foreshore. Site of Manning Homestead & Dairy, South Perth foreshore. Coode St Jetty. Code St Jetty. Chinese market gardens, Sir James Mitchell Park. Spanning Point Belches, Canning Bridge, camping near the Old Mill. Horse Ferry, Mill Pt Rd to Mt Eliza. Horse Ferry, Mill Pt Rd to Mt Eliza. Cocasional private steam ferries to Perth. Proposed commercial fishery. Vineyard, Charles Tondut. Ferry service from Mends St, 'Duchess'. Clontarf Boys Home and jetty, previously a landing area for timber and produce trades. Dairy, piggery and poultry farming as well as cropping at Boys Home. Piggeries established on South Perth foreshore (prohibited by law 1924). Boat houses on foreshore. Freshwater found at Clontarf. Mosquito problems at Millers Pool and along river edges led to a proposal for infilling wetland areas. Major flooding of Mill Pt area. Depression camps at Canning Bridge. Algal bloom at Como Beach makes swimming unpleasant.		· · · · · · · · · · · · · · · · · · ·			
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7 Algal bloom at Como Beach makes swimming unpleasant. 1940's	2	, · · · · · · · · · · · · · · · · · · ·	1930's		
1 50's			50's		

3.1.20 South Perth (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Narrows Bridge.	1959		
2	Canning Bridge, original built 1849.	1938		
2	Mt Henry Peninsula Quarry.	pre		
		1900's		
1	Aquinas Bay swimming area.	1930's		
1	Willem de Vlamingh believed to have landed on the	1700's	Sp2	
	Peninsula.			
2	Pensioner Guard sites allocated but not taken up.	1850	Sp7	
5	Filling in of Melville & Perth waters foreshore.	1930's-	Sp6	
		1960's	Sp3	
7	Reports of algal smells on Melville water side of river.	1940's	Sp6	
2	Neil McDougall Farm Complex, Clydesdale St Como.	1920	Sp8	NTWA, AHC
2	The Old Mill (Shenton's Mill), Mill Point Rd South Perth.	1837	Sp2	NTWA, HCWA
2	Post Office, Mends St South Perth.		Sp9	NTWA
2	Cygnet Theatre, Preston St Como.	1938	Sp1	NTWA, AHC, HCWA
			0	, ,
6	Canning River Wetlands (Mount Henry to Clontarf), 40 ha,			AHC
	Manning.			
6	Milyu Nature Reserve (M60), 94 ha, 1 km west of South			AHC
	Perth.			
6	Reserve 33803, AHC DB No 010663, South Perth.			AHC

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3.1.21 Stirling

Land use	Historic site and/or water use	Date	Map ref	Source of information
use	Historical use of Star Swamp area.			HCWA (1988z)
1	- Star swamp on Surveyor Cowle's map.	1869		
2	- Settled by pastoralists.	1860's		
2	- Drovers watering point.	1860's-		
2	Diovers watering person	1900's		
2	- Camel quarantine station.	1890's		
2	- Orchards, remaining olive tree, Hope St.	1870-		
2	Oremands, remaining onve tree, respective	1910's		
2	- Stock route along east side of swamp.	1850's	St1	
	1	1915		
2	4	1919		
2	- Marl quarry	1940's		
2	- Light horse division used swamp & well on Hope St.	1874	St1	Lynda Arnold North
1	Stock route from Carnarvon and Greenough.	1930's	St1	Suburban
2	Okely farm, Carine dairy.	1930 8	St3	Historical Society
3	Mt Flora MWSS & DD, North Beach domestic supply.	1942	1	c/- 26 Whitworth Ave
8	Lime Kilns fired with timber from land cleared around Lake		St4	GIRRAWHEEN 6064
	Gwelup.			-
	Wells			Ph: 342 5091
3	- Stone well, Hope St, North Beach		St5	
3	- Sorrento St, North Beach		St6	
3	- Malcolm St, North Beach		St7	
3	- Near North Beach jetty		St8	
3	- Terrace St, near Mary St., Waterman		St9	
	- Elliot Rd, Trigg		St10	
	- West Coast Highway, near Mettam's Pool		St11	
	- West Coast Highway, near Hammersley Home	ĺ	St12	
	- North Beach Rd, near Cain St, North Beach		St13	
3	Whaling water supply, Beach Rd., Waterman		St14	
2	Area by St Anne's, Mt Lawley was & still is freshwater,	1829-		Frank Greenslade
2	wetlands used as garden by early settlers, (see Chauncy map	1850		(President)
	1844).			
3	Early wells on Maylands Peninsula used domestically by early	1830-		Maylands Historical
5	settlers- some still exist, refer detail to Hardey family.	1900		Society
5	Gibney park, Maylands was wetlands and used as Chinese	1850-		PO Box 6
3	gardens, since drained & filled.	1930		MAYLANDS 6051
_	Freshwater areas nominated by Stirling and shown on early	1550	St15	Ph: 271 4284
2			500	
_	maps as 'garden', thought to be Chinese		St16	
3	Freshwater Springs.	1020		
2	Tranby House, Johnson Rd Maylands.	1839	St17	11C W A (170000)
2	Kelvin St Lookout, cnr Swan View Tce & Kelvin St			
	Maylands.		+-	NICENTAL ATTO
6	Star Swamp Bushland Reserve, 96 ha, bordered by Hope St,		St1	NTWA, AHC
	North Beach Rd, Marmion Ave and Beach Rd.			
6	Trigg Dune Reserve, 118 ha.			NTWA, AHC
6	Inglewood Triangle, 3 ha, bounded by Eighth Ave, Walter Rd			NTWA
	and Hamer St			

3.1.21 Stirling (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
6	Dianella Bushland, 26 ha, between Morley Dve and Yirrigan			NTWA
	Dve.		İ	
2	Tranby House, Hardy Rd cnr Johnson Rd Maylands.	1836	St17	NTWA, AHC, HCWA
2	Maylands Brick Works, Swan Bank Rd Maylands.	1927		NTWA, AHC
2	Wiinschl Residence and Grounds, 39-41 Peninsula Rd,			AHC
	Maylands.			
6	Lake Karrinyup Country Club, North Beach Rd Karrinyup.			AHC
2	Marine Research Laboratories, West Coast Hwy.			AHC
6	Swan River Foreshore, Maylands, AHC DB No 017879.			AHC
2	Herdsman Lake Settlers Cottage, 99 Pearson St Churchlands.			HCWA
6	Herdsman Lake, 300 ha, 6 km west of Perth.		St18	AHC

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3.1.22 Subiaco

Land	Historic site and/or water use	Date	Мар	Source of information
use			ref	
2	Benedictine monks purchase land around Lakes Monger and	1840's		HCWA (1988aa)
	Herdsman.			
2	Farming on monks land included orchards, vineyards, olive	1850's		
	groves and gardens.			
2	European family settlement (not including Crawley).	1886		
2	Shenton Park lake-		Sul	
	- owned and used by James Dyson for stock watering place	1870's		
	including camels.			
_	- popular recreational area and playing fields (cricket).	1897		
2	Lake & gardens at Sir Charles Gardiner hospital was part of	1890's		
	dairy & orchard belonging to Frederick's			
6	Matilda Bay, public recreational area.	1909	Su2	
6	Pelican Pt, bird sanctuary.		Su3	
2	Qantas Catalina Memorial, site of World War 2 base.	1939-45	Su4	
6	J.H. Abrahams Reserve.	1980	Su5	
2	Nedlands Baths and Jetty and Nedlands Park Hotel.	1909	Su6	
2	St Thomas More College, Mounts Bay Rd.	1958	Su7	
2	"Crawley House", Hackett Dve Crawley. Former Shenton	1880	Su8	NTWA, AHC
	House in UWA Campus			·
2	Subiaco Declared Conservation Area bounded by Hamersley			NTWA
	Rd, the right of way west of Rupert St, the right of way south			
	of Heytesbury Rd and Townsend Rd			

3.1.22 Subiaco (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
6	Pelican Point M62, 50 ha, 1.5 km south west of Nedlands.			AHC
2	St Georges College Gardens, Mounts Bay Rd Crawley.			AHC
2	St Georges College, Stirling Hwy Crawley.		Su9	AHC

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Van De Straaten, M. (1959) <u>A History Of Subiaco From First Settlement To Depression.</u> Van De Straaten, Western Australia.

3.1.23 Swan

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
1	Stirling exploration party sail up Swan River.	1827		HCWA (1988cc)
6	Fishmarket Reserve, Swan St.			
2	Woodbridge', home of Charles Harper.	1883-85	Sw1	
2	St Mary's Church, Yule Ave.	1868	Sw2	
2	Houghton Homestead, Dale Rd.	1863	Sw3	
2	All Saints Church, Henry St, also site of upper most camp of	1839-40	Sw4	
	Stirling's exploration party	1827		
2	Town Wharf, Meadow St.			
3	Government wells-			Mrs Thelma King
3	- Muchea Store, Brand Hwy.			571 Chittering Rd
3	- Turner Rd.			SOUTH CHITTERING 6084
2	Early grazing and small food crops.	1829 -		Mrs M.J. Hammersley
2	Fruit growing became important.	1870 -		Swan Guildford
3	Guildford town, mostly wells, very few springs.	,		Historical Society
3	Artesian bores put down.	1895		Meadow St
3	Coolgardie scheme reticulates town.	1905		GUILDFORD 6055
4	Plentiful springs on west bank, black soil swamps used for	1885		Ph: 274 1060
	summer crops, no irrigation until 1885.			
5	Only drains usage was to carry artesian water for irrigation.			
6	Swan River used for transport.		ļ	
6	Small water courses part of properties.			
7	Quality of water from bores was very constant until			
	excessive draw from mid 70's began to affect quality.			
9	Swan river fishery used from 1829 onwards. Early settlers			
	used shellfish and water birds.			
1	Gidgegannup exploration, Bland, Agett & Trimmer.			Noela Sheperd
2	Timber getters.	1903+		Halcyon Hill
2	Farming - citrus orchards.	1930+		Lot 4 Roland Rd
3	12 Mile spring, cnr Roland/Toodyay Rds.		Sw5	GIDGEGANNUP 6083
3	Gidge Springs, cnr Rene/Spring Rds.		Sw6	Ph: 295 4202

3.1.23 Swan

Land	Historic site and/or water use	Date	Map	Source of information
use	·		ref	
3	Cookes Brook, near Lilydale/ Toodyay Rd.		Sw7	
3	Baylup Springs, near Utah/Toodyay Rd		Sw8	
6	Water reserves around 12 Mile Spring.			
7	12 Mile Spring was 'yuk'.			
7	Noble falls was always salty except in winter.			
Character	(Anecdotal records result of oral interview conducted by			
	Noela Sheperd with Alan Anderson, resident 1930-80).			
8	Dykes mill, Susanah Brook.	1903		
8	Dalgarup Mill, 12 Mile Spring.	1903		
8	Smiths mill, Wooroloo Brook, used water from Baylup.	1942-		
		1950?		
2	Belhus Estate Conservation Area, West Swan Rd including:-			NTWA, AHC
2	- Ellen Brook Bridge	1860	Sw9	NTWA
3	- Mill Race and Dam and the valley in which they lie.	1830		NTWA
2	"Oakover" Vineyards, gardens and river meadows, Dale Rd.	1843	Sw3	NTWA, AHC
	Historical - Vineyards date back to 1843 and there are fine			
	olive and oak trees.	-		
2	"Oakover House" Group, Lot 13 Dale Rd Middle Swan.	1860	Sw3	NTWA, AHC
2	"Swanleigh" Grounds inc Jane Brook, Yule Ave Middle		Sw2	NTWA, AHC
	Swan.			
2	Chaplain's House, Swanleigh, Yule Ave Middle Swan.	1850's	Sw2	NTWA
2	St Mary's Church and Graveyard, Yule Ave Middle Swan.	1869	Sw2	NTWA, AHC
2	Swanleigh Youth Hostel, Yule Ave Middle Swan.	1874	Sw2	NTWA
6	Swan Valley Landscape Conservation Area, 105 km ² ,			NTWA, AHC
	comprising The Swan River, the surrounding alluvial lands,			
	the Swan Valley Vineyard area, the Darling Scarp and			
	foothills.			
2	Ellen Brook Estate, (Northern part), 980 ha, Lexia, Maralla			NTWA
	and Millhouse Rds.			
2	Guildford Historic Townsite comprising the Guildford	1829	Sw10	NTWA, AHC
	Townsite between the Swan & Helena River delta.			
2	Meadow St Conservation Area including:			NTWA
2	- Barker's Bridge.			NTWA
2	- Banks of Swan River including Landing Space.			NTWA
2	- "Garden Hill" Seminary and Grounds.		Sw10	NTWA
2	- Vista to Helena River.			NTWA
2	Meadow St/Stirling St Square Landscape Space, visual			NTWA
	length of Meadow St from Swan River to Helena River			
	Stirling Square and its visual connection to the Swan River			
	via Kings Meadow			
2	Primary School, Helena St Guildford.	1865		NTWA, AHC
2	Turner's House, 16 Helena St Guildford.	1910	E .	NTWA
2	Jeck's Cottage, Helena St Guildford.	1850		NTWA
2	"Stathalbyne" Residence, 63 Helena St Guildford.		1	NTWA
2	"Fairholme", 39 Market St Guildford.	1910	1	NTWA, AHC, HCWA
2	Old Fairholme, Market St Guildford.	1870	1	NTWA, AHC, HCWA
2	Welbourne House, 43 Market St Guildford.	1840	Sw10	NTWA, AHC, HCWA

3.1.23 Swan (contd)

Land	Historic site and/or water use	Date	Map ref	Source of information
use 2	"Garden Hill" including grounds and trees now St Charles	10001-	G 10	NITWA ALTO
	Seminary, Meadow St Guildford.	1890's	Sw10	NTWA, AHC
2	Former "Bebo Moro", 224 Swan St in grounds of St Vincent's	1843	Sw10	NTWA
_	Hospital, Guildford	1043	SWIU	NIWA
2	Guildford Grammar School Chapel, 11 Terrace Rd Guildford.	1914	Sw10	NTWA
2	Former Padbury Store, 116 Terrace Rd Guildford.	1870	Sw10	NTWA
2	Cottage, rear 116 Terrace Rd Guildford.	1885	Sw10	NTWA
2	"St Winnols", Lot 28 Caversham Ave Caversham.	1898	Sw11	NTWA
2	"Mandalay", Former Sandalford Farm, Middle Swan Rd	1870's	Sw12	NTWA, AHC
	Caversham.		312	111 111, 1111
2	Former Houghton Homestead, Lot 103/7741 Dale Rd Middle	1863	Sw3	NTWA, AHC, HCWA
	Swan.			,
2	Houghton Winery, Lot 15 Dale Rd Middle Swan.	1859	Sw3	NTWA, AHC
2	Midland Junction Town Centre Conservation Area bounded	1890-		NTWA, AHC
	by Gt Eastern Hwy to the south, Spring Park Rd to the west,	1910		
	Gt Northern Hwy to the north-east and Helena St to the east.			
2	"Woodbridge", Third Ave Midland.	1885	Sw1	NTWA, AHC
2	"Millendon" House, Olive Rd cnr Memorial Ave, Midland.	1834	Sw13	NTWA, AHC
2	All Saints Church and Graveyard, Henry St Henley Brook.	1840	Sw4	NTWA AHC
2	Strelley Farm Buildings, Dale Rd Middle Swan.		Sw3	AHC
6	Bullsbrook Reserve, 120 ha, 5 km north east of Bullsbrook.			AHC
6	Pearce Aerodrome, 450 ha, 0.2 km north east of Bullsbrook.			AHC
6	Bushmead Rifle Range Area, 120 ha, Helena Valley.			AHC
6	Talbot Rd Reserve A2395, 2300 ha, Swan.			AHC
6	Ellen Brook Nature Reserve, 67 ha, 2 km north northeast of			AHC
6	Upper Swan.			
6 6	Twin swamps Reserve, 155 ha, 5 km north of Upper Swan.			AHC
· ·	Walyunga National Park, 1790 ha, 5 km north east of Upper Swan.			AHC
6	John Forrest National Park, 1577 ha, 1 km east of Swan View.			ATTO
6	Ellenbrook National Estate Area, 2000 ha, 4 km west			AHC
	northwest of Upper Swan			AHC
2	Hand carved jarrah trough at the base of a spring fed	1900		Michael Dana
_	waterhole which forms a freshwater creek. Lot 8247 Sawpit	1900		Michael Ross Shire of Swan
	Rd Bullsbrook.			Ph: 274 9908
2	Convict Depot ruins adjacent to creek. North side of Toodyay	1850's		FII. 274 9900
ł	Rd, 2kms west of Red Hill Waste Disposal Site. Situated	1050 3		
İ	within Toodyay Rd Reserve.			
3	Former Guildford Town Bore on Reserve 6449 Lot 144	1898	Sw10	
	Helena St Guildford. Located on part of the southern portion			
	of the original Stirling Square. The site contains the early			
	Guildford water supply, convict built well and artesian water			
	supply. It is believed to be the oldest and deepest public			
	artesian bore still in use today.			
	Well on TL32 No 4 James St Guildford. The land was	1850's		
	originally owned by the Devenish Inn (No 10) the first hotel			
	built in Guildford (c 1850) and was used for brewing beer.			

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3.1.24 Wanneroo

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
	Lake Joondalup-Craigie Lake/Soldiers Lake	1840's -		Kinnealy (1994)
2	- watering point on the northern stock route, then used as			& Bob Ruscoe,
	Market gardens.			City of Wanneroo
3	- springs were located on the eastern side. Now dried up or			
	built over.			
5	- cave drainage system on west side of lake.			
3	- wells dug on side of lake.			
	Lake Goollelal - Welshes Lake/Alder Lake			
2	- vegetable gardens established next to lake.	1844-52		
2	- site of first Brumby roundup	1930's		
2	- then dairies, piggeries, vineyards, market gardens.			
7	- flooded in 1919	1919		
3	- seeps but no springs.			
3	- bore put down then plugged	1940's		
	Jandabup Lake - Big Dundebar Lake			
2	- eastern side land uses have included cattle, piggeries,			
	market gardens and woodcutting and dairies.			
8	- northern side cleared and burnt for pine planting.	1950's		
2	- western side not cleared until 1960's.	1960		
7	- flooded 1945, 1960's.			
3	- small spring on north east corner of lake, (fresh).			
	Yonderup Lake			
2	- used as market gardens, beds elevated for drainage.			
5	- underground streams and springs fed lake.			
	Nowergup Lake - Narago Lake			
7	- known for beautiful water quality, remained clear and			
	sweet until very recently.			
2	- eastern side used as market garden and piggery.			
3	- western side original watering point on stock route.		İ	
3	- springs located on eastern side near piggery and on	1940's		
	southern most corner.			
	Camel Swamp, to east of Nowergup.			
5	- dried up and not returned.	1950's		
	Coogee Springs & Swamp			
2	- subdivided and surrounded by market gardens and cattle			
5	- lake to the north filled in.	1950's		

3.1.24 Wanneroo (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
1	- Probable visit to Doogarch Cave by G. Grey	1838		
7	- lake bed dried to a depth over 2m.	1956-60		
3	- spring at Georgemma Pl now closed over.			
	Neerabup Lake - Pappas Swamp			
3	- good quality springs fed into it.			
2	- area used for lime burning	1930		
2	- area surrounding lake used as market gardens, cattle and pig farming.	'		
3	- springs on east side, (3), flowed continuously earlier this			
	century, no longer running.			
	Gnangara Lake			
2	- used extensively as recreational area.			
2	- mined for diatomaceous earth and sand.			
2	- cattle and market gardens in area.			
3	- springs on eastern side, now dried up.			
	Mariginiup Lake			
2	- stopping place for travellers on the south-eastern stock	1888		
-	route			
2	- area around used as market garden, chicken farm and			
_	dairies.			
	Pippidinny Swamp & Beonaddy Swamp			
2	- cattle and market gardens.	1916-		
3	- Pippidinny Swamp had spring on north side now dried up.			·
	Loch McNess - Yanchep Lake			
7	- Water always fresh and levels stable.			
5	- Lake was dredged	1930's		
3	- Spring in cave just north of ÔBeach House' was used to			
-	supply drinking water to early settlers			
3	- Springs fed from underground caves, at Gloucester lodge			
	and in front of Loch McNess which has now been filled in.			
1	John Butler led small party in search of lost cattle.	1834		HCWA (1988l)
1	Area surveyed by George Grey.	1838	1	
2	Townsite gazetted Wanneru.	1907		
2	Hawkins Park, stock route.	1865	Wn1	
2	Quarry Lookout, Edgewater.	1920's	Wn2	
2	Perry's Paddock, Ocean Reef Rd, recreational area.	1900's	Wn3	
2	Chitty House, 1351 Wanneroo Rd.	1870	Wn4	
2	Ashby House, Wanneroo Rd.	1910	Wn5	
6	Koondoola Regional Open Space, 136 ha, Alexander Rd			NTWA, AHC
	between Beach Rd and Marangaroo Dve.			,
6	Hepburn Heights/Pinnaroo Park, 170 ha, Padbury.			NTWA, AHC
2	Luisini Winery Group, Lot 82 Wanneroo Rd Kingsley.	1921	Wn6	NTWA, AHC
2	"Cockman House" Cottage, Lot 100 Ocean Reef Rd	1860	Wn7	NTWA, AHC
	Woodvale.			
6	Yanchep National Park Reserve, approx 50 km north of Perth.	1930-		NTWA, AHC
2	McNess House, Yanchep National Park.	1932	Wn8	AHC, HCWA
2	Concrete Bunkers, Yanchep National Park.			AHC, HCWA
2	Yanchep Inn & Garden, Yanchep National Park.	1936		AHC, HCWA

3.1.24 Wanneroo (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Gloucester Lodge including Garden & Pool, Yanchep	1933		AHC, HCWA
1	National Park.			,
2	Administration Building, Yanchep National Park.	1930		AHC, HCWA
2	Ghost House & Chauffeur's Room, Yanchep National Park.	1930		AHC, HCWA
2	Tram Cottages, Yanchep National Park.	1932		HCWA
6	Neerabup National Park, 1195 ha, 4 km east Quinns Rock.			AHC
6	Nowergup Lake Fauna Reserve, 116 ha, 5 km NE Quinns			AHC
ļ	Rock.			
6	Caraban Management Priority Area, 3000 ha, 10 km north-			AHC
	east of Two Rocks			
6	Two Rocks Open space, 2000 ha, 2 km north of Two Rocks.			AHC
6	Jandabup Lake nature reserve, 232 ha, 4 km east of			AHC
	Wanneroo.			
6	Lake Joondalup Reserves, 470 ha, 1 km Wanneroo.			AHC
6	Reserve 3446, AHC DB No 010765, Wanneroo			AHC
6	Wanneroo Research Station, 39 ha, 4 km south-west of			AHC
	Wanneroo.			
6	Wanneroo Wetlands Eastern Chain (M8), 3500 ha, 3 km east			AHC
	of Wanneroo		İ	

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3.2 COUNTRY LOCATIONS

3.2.1 Beverley

The Shire of Beverley is 131 km east southeast of Perth and covers an area of 2310 km2 of which only the western quarter is within the study area. The current population is around 1430 and local industry consists of sheep, cattle and cereal farming, and a timber mill (WAMA 1993). The Shire includes the Avon, Dale and Darkin Rivers.

History

Robert Dale first led an expedition into the Avon valley area in 1830 and it was on his third expedition in 1831 that he led his party into the present location of Beverley. He was under orders from Governor James Stirling to examine the country to the extent of 50 miles north and south of Mt Blakewell. On this expedition he discovered the Dale River, as it was later named, and passed along the tract of land between the Avon and Dale rivers which would later become the Avondale Estate (Jones & Johnston 1994).

In November of 1835 another expedition involving Governor Stirling and the Surveyor General John Septimus Roe, followed an alternative route from Albany to Perth via York and passing through the location of Beverley between Christmas and the New Year. Thomas Watson then surveyed a land grant for Stirling in the following year and determined the western limit of the Beverley townsite reserve (Jones & Johnston 1994). The town of Beverley was founded in 1838 and was named by Charles Simmons, the Surgeon General, after Beverley in England (Beverley Tourist Board 1995?). In 1843 the boundaries of Beverley were marked out by Surveyor Seale. The district had already been farmed for some time by a large number of landholders, mainly for sheep and to a lesser degree wheat. The first semblance of a business centre for Beverley was at the fork of the roads at Seaton Ross where a Mr Edwards erected a mud-bat store. In 1864, the Seaton Ross bridge was erected near Edwards Crossing using convict labour. Soldiers Barracks were erected for both public protection and to oversee the convict labour on the Dale River and at Turkey Cock Creek on St Aubyns Estate (Thomas 1946).

Beverley district in its virgin state was timbered with mainly Jam and York Gums, with Morrel, Salmon and White Gums in parts, while on the hills, grew large quantities of Sandalwood. The latter providing valuable income to the early settlers. The Avon and Dale Rivers provided plentiful game in season and in places there was good fishing. Beverley township was linked with the Mundaring-Goldfields Water Scheme in 1908. (Thomas 1946).

Historical sites

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	St Paul's Church, cnr York & Beverley Rd, 5 km north-	1859	Be1	NTWA, AHC
	west of Beverley (near Edwards Crossing).			
2	Dead Finish Hotel, Hunt Rd.	1872	Be2	NTWA, AHC
2	99 Vincent St, residence.	1898	Be2	NTWA, AHC
2	Post Office, Vincent St.	1909	Be2	NTWA
2	Railway Station, Vincent St.			AHC
	Brookton Hwy Forest area, 21 600 ha, AHC DB No			AHC
	009943, Beverley.			
2	Avondale Estate, Waterhatch Rd Beverley.	1850's	Be2	Jones & Johnston
				(1994)
2	Hell's Gates ruin at Carbegan Springs which was also an			Thomas (1946)
	Aboriginal watering hole.			
2	Old Seaton Ross bridge near Edwards Crossing.	1864	Be3	
2	Soldiers Barracks, on the Dale River and Turkey Cock			
	Creek			

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3.2.2 Boddington

The Shire of Boddington is located 123 km southeast of Perth and covers an area of 1932 km² of which the entire area is within the study region. The population is around 1300 and includes the localities of Ranford and Boddington. Local industries include farming (sheep, cattle, cereal crops), timber (including a pine plantation), and mining for bauxite and gold (WAMA 1993). It includes sections of the Hotham, Bannister, Williams and Murray Rivers.

History

Thomas Bannister would have been the first to traverse the area encompassed by Boddington Shire on his journey of 1830 from Swan to King Georges Sound (Albany). Four years later Alfred Hillman led an expedition through the area and climbed and named Mt Wells, crossing the Hotham River near Farmer's Crossing, (downstream from Bannister's crossing)(Ferrel 1992).

After the arrival of convicts in 1850, there existed a labour force for public works. Depots were set up at intervals along the route of the Perth to Albany road to supervise convict road gangs and a station was developed at Bannister River at the site of Bannister's Crossing in the Williams Shire. This development would have encouraged settlers to take up land within the boundaries of the present Boddington Shire (Ferrel 1992).

Early settlement in the 1860's, included families with the names Batt, Farmer, Fawcett and Pollard. Settlement focussed on the local waterways with the Fawcett's establishing a holding at Mokine, near freshwater springs. Horses were released on their property for breeding and the spring site was fenced off and a stockyard created so that horses had to enter through the stockyard to obtain water, enabling them to be recaptured when needed (Ferrel 1992).

Other landholdings occurred along the Maradong Brook and Hotham River with the Farmer family settling on the Hotham at the present Clover-Glen farmsite. Thomas and Eliza's house of the 1870's sits on the left bank of the river (Ferrel 1992).

The townsite of Boddington was surveyed in preparation for the completion of the railway and gazetted in September 1912. Early industries were largely farming based, later the timber industry became important with mills established at Chadora, Pindalup, Wuraming and Hakea following the construction of the railway soon after 1910. The Tullis Mill was opened by Bunnings in 1936 (closed since 1952). Several other mills were also established and the timber industry led to the establishment of a Bunnings timber farm on the former Sinclair Estate which has been progressively reafforested with pines since 1956 (Ferrel 1992).

Bauxite has been known in the area since 1912, but permission to mine was not given until 1980. Since 1985, bauxite mining is has become well established along with gold mining, Boddington gold mine being the second largest producer of gold in Australia (Ferrel 1992).

Historical sites

T 1	Historic site and/or water use	Date	Map	Source of information
Land	Historic site and/or water use	2	ref	
use	C'III P. I Manusdana gyimming			Ferrel (1992)
2	Gibb's Pool, Marradong, swimming.	1 8 8 0's		(
2	Boddington's Pool, near present townsite, shepherds	10005		
	watering hole used by Henry Boddington, after whom			
	town is named	1 8 8 0 'c		
2	Boddington's Troughs near Bowalling, lasted till 1900's,	10003		
	trenches dug at site of spring for sheep watering.			
2	Ford near Hall's, downstream from Boddington's Pools,			
	common river crossing, later Boddington siding situated			
	nearby.	1910		
8	Chadora Mill, near Oak Brook.	1936-52		
8	Tullis Mill.			
2	Industrial Extracts Ltd, Hotham River Pool, 1.5 km east	1933		
	of township, used water pumped at 20 ft below water			
	surface, heated water returned to water surface used for			
	factory condensers. Factory also had and used a good			
	supply of underground water.	1052		
3	Reticulated water supplied to town.	1952		
3	Town wells.	1900's	Bo1	
3	Town weir on Hotham River.	1980	DOI	
2	Early oil exploration bores-	1925		
	- Boggy Brook			
	- House Brook	10001		
9	Cobbler, Perch utilised as food and sport.	1930's		
7	Water brackish.	1930's		
2	Footbridge crossing from Keen's property, often used for			
	local gatherings.		l	

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3.2.3 Boyup Brook

The Shire of Boyup Brook is located 270 km south-southeast of Perth and covers an area of 2838 km2 of which only the northwest portion passing north of Wilga is within the study region. The population is 2060 and suburbs/localities include Boyup Brook, Wilga, Mayanup, Dinninup and Kulikup. Local industry consists of farming (cattle, sheep, grain and pig) and timber (WAMA 1993). The Shire includes sections of the Collie, Blackwood and Tweed Rivers.

History

The Blackwood River Valley begins in the northeast of the Boyup Brook Shire, after the Arthur River is joined by the Beaufort and Balgarup Rivers and becomes the Blackwood (BBTA 1995?a).

The area was first explored by Augustus Gregory in 1845 while surveying the Blackwood River, although previous explorations by Thomas Turner and J. Molloy may have passed through the area following the Blackwood. Augustus Gregory carved his initials and the date on a large Jarrah tree near the river on what is now Gibbs Rd and the stump is still evident with his mark (BBTA 1995?a).

The area was then settled in 1854 when a track was blazed by John Hassell from Albany and followed by Commander and Mrs Scott, who settled by a permanent pool at Norlup on Scott's Brook (BBTA 1995?b).

In 1861, James George Lee Steere came from Bunbury and took up a small freehold selection which he named 'Jayes' and a 100 000 acre grazing lease. He employed shepherds to mind his flock on this huge area and small sections of his original post and rail fence are still found in the bush, although the lease was eventually thrown open to settlers and most of it cleared. Jayes became the first centre of local government in the district (BBTA 1995?b).

In 1871, William Forrest, brother of Lord John Forrest, took up land which he called 'Dwalganup'. By 1892, there were nineteen families here and in 1900 a school was built which marked the beginning of a town. In 1909, the railway from Donnybrook was extended to Boyup Brook and then to Kojonup in 1911 (BBTA 1995?b).

The early settlers eked out a living by farming and timber cutting with many early timber workers carting sandalwood from the Kojonup/Williams area. They would travel by horse and dray to Bunbury via 'The Old Sandalwood Track' through the McAlindan area, now famous for Merino sheep. Boyup Brook received no convict labour and the buildings were mainly built out of wood or homemade brick (BBTA 1995?a, 1995?b).

Historical sites

Land	Historic site and/or water use	Date	Map	Source of
use	•		ref	information
2	Gregory Tree Historic Site, Gibbs Rd.	1845	Bbl	Boyup Brook
2	Norlup Pioneer Homestead, Scott's Brook Rd.		Bb2	Tourism Association
8	Wilga Timber Mill site, Camballan Rd.		Bb3	Ken Ritson
	,			PO Box 26
2	Sheep washing in river at Jayes Bridge, Blackwood River.	1880-90	Bb4	BOYUP BROOK
_	,			6244
2	Drinking, washing, bathing at "Daneholme", Blackwood	1906-35	Bb5	Ph:(097) 651074
	River.			
2	"Norlup", Domestic and stock, Scotts Brook	1854	Bb2	
3	Railway dam	1910?	Bb6	
3	Town Dam	1935?	Bb7	
4	Apple orchard - irrigation dam	1960-75	Bb8	
5	"Daneholme", drains to prevent waterlogging.	1926	Bb9	
7 ·	Blackwood River generally clear and fresh until the floods	1955		
	of 1955 when deterioration became rapid, (silt & salt).			
9	Fishing on the Blackwood River:			
	-Marron until 1980	1980		
	-Perch until 1965	1965		
	-Cobbler - 1995	1995		
2	Bathing at Sheep Wash after fire fighting	1864	Bb2	
2	Bathing at Sheep Wash after fire fighting	1965	Bb2	
7	Nannamillup - well	1862-70	Bb6	
7	Moorelup Creek - water undrinkable	1883		
2	"Condinup"		Bb7	NTWA
2	Flax Mill		Bb7	NTWA
2	"Norlup", House and School room Lot 199, Nelson Loc	1874-5	Bb2	NTWA, AHC
	39 7 km east Mayanup			
2	"Rose Cottage"		Bb7	NTWA
2	Ritson Property			NTWA
8	Wilga Sawmill		Bb3	NTWA
2	Boyup Brook Tourist Centre, Abel St Boyup Brook.		Bb7	AHC
	Nollajup Management Priority Area, 661 ha, 10 km south			AHC
	west Boyup Brook.			

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3.2.4 Bunbury

The City of Bunbury is located 184 km south of Perth and covers an area of 61.2 km2 entirely within the study region. The city includes the suburbs and localities of Bunbury, South Bunbury, Withers, Mangles, Glen Padden, Crosslands, Carey Park, Wollaston, Picton, Sandridge Park, East Bunbury and Rathmines. Local industry includes silicon smelting, meat works, mineral sands mining and fishing (WAMA 1993). The Ferguson meets the Preston River within its boundaries and drains into the bays within the city.

History

After establishment of the Swan River Colony in 1829 by Captain James Stirling, large land grants often held by absentee owners forced later settlers to look beyond the Swan Coastal Plain. Governor Stirling proposed settlements at Port Leschenault (Bunbury), the Vasse (Busselton) and Augusta to ease demand for land. An expedition on the first of March 1830 navigated the Collie River to the Darling Range and its members claimed large land grants, with Stirling claiming more than 20 000 acres. Stirling's Port Leschenault grant took up the fertile land behind the new townsite, which was small and dominated by sand dunes, mangrove fringed tidal flats, creeks and lagoons. However, the first settlers did not arrive until 1838 when Stirling brought the Scott family to Bunbury, who became the first farmers of the area (HCWA 1988b).

The Bunbury townsite was gazetted in 1841, but due to Stirling's large land grants colonists had to struggle with a small townsite on poor marshy soil and sand dunes with virtually nowhere to graze cattle or grow crops. Hopes were raised with the organisation of the Australind Settlement Scheme in 1841, but by 1843, the scheme had been abandoned. (HCWA 1988b)

William Forrest bought 640 acres of land on the Preston River in 1847. The Ferguson River joined the Preston on his property and it was at this site that he embarked on a project to build a water driven flour mill. He diverted the Preston River across the Ferguson to form a dam. He then built a mill race from the dam 12 ft wide and half a mile long to run into the mill pond, which was deep and held many thousands of gallons of water. The approaches to the dam were lined with stones and all timber used was cut from the property (Fowler 1961).

The arrival of convict labour between 1851 and 1868 boosted the population and stimulated the economy. With the subsequent boom in timber cutting, spurred by railway construction, and the stimulus of the goldrushes in the 1880's and 90's, Bunbury developed from an outsettlement of the Colony to a fully fledged town by 1900. A succession of State Premiers, particularly locally born John Forrest (1890-1901), facilitated large scale public works such as C.Y. O'Connor's harbour scheme more railways, water works, and agricultural expansion (HCWA 1988b)

Bunbury's growth continued steadily throughout the 20th century and it became one of the State's busiest ports for the exportation of timber, agricultural products, alumina, and mineral sands.

Historical sites

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
5	Watercourses in the city area have been considerably		Bul	P.A. Barnes
	altered. Preston River has had three major alterations to			Secretary
	its natural course with 29 different courses being			Bunbury Historical
	identified by geologists in the delta area of the river.			Society
				King Cottage
2	Meridith Creek was an important water course for early	I .	Bu2	Museum 77 Forest Ave
	settlers with the first survey peg placed by Surveyor			BUNBURY 6230
	Watson at the mouth of the creek in the 1830's. The creek	I.		Ph: 097 217 546
-	is now controlled by piping some two km back from the			
	mouth.			
3	Ship's Well identified in Surveyor Henry Ommaney's		Bu3	
	notebook of the 1840's located near today's Fisherman's			
	Jetty.			
3	Ommaney's notebook also indicates the extent of	1840's	Bu4	
	freshwater in the town;			
	- The 'Duck Pond'			
	- Extent of inlet onto town centre			
_	- Pond at north end of Victoria St			
5	Big Swamp, Five Mile Brook used to drain into here,		Bu5	
	once used as rubbish tip, now a bird haven		D C	
5	Five Mile Brook' diversion from Big Swamp to ocean 16		Bu6	
_	km south of the city.			
5	Reclamation and dredging has completely altered Bunbury's waterways with most of the changes taking	1		
	place between 1969 and 1976.			
1 1	Fish life in the Lower Leschenault Inlet has changed			
	dramatically.			
5	Queens Gardens founded on Point Collinson and	1900's		
1 1	reclaimed land.	17003		
	Old Railway Station & Bicentennial Square, Carmody	1904	Bu7	HCWA (1988b)
1 1	Place.		"	110 (17000)
1 1	Stirling St Historic Precinct.		Bu8	
I I	The Residency and Chadd's Store, Corner of Moore &	1896	Bu9	
1 1	Stirling streets.			
	82 & 84 Stirling St.	1875	Bu8	
1 1	Bunbury Townsite Peg No 1, Commemorative Cairn.		Bu10	
1 1	131 & 137 Stirling St .	1890-10	Bu8	
l I	F.W. Steer's First House, 153 Stirling St.	1907	Bu8	
1 1	Parade Hotel, Austral Parade	1894	Bu11	
2	Leschenault Homestead, Estuary Dve.	1844-74	Bu12	
2	St Mark's Anglican Church & Churchyard,	1842	Bu13	
	(reconstruction), cnr of Flynn St & Charterhouse Cl.			

Historical sites

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Inlet Promenade		Bul4	
2	Queens gardens	1907		
2	Frank Buswell Foreshore			
5	Big Swamp, modified wetland, Prince Philip Dve.			
2	Clarke's Bunbury Vineyard 1890-1900's, Southern end of			
	Big Swamp.			
2	Moreton Bay Fig, at St Mark's Anglican Church site.		Bu13	
2	School site, near present railway bridge at Picton, a			Fowler (1961)
	clump of acacia's remain.			
2	William Forrest's water mill near junction of Ferguson	1847		
	and Preston Rivers.			
2	Old Railway Station & Bicentennial Square 1904	1904	Bu7	NTWA, AHC
2	Leschenault Homestead 1844-1874, Estuary Dve.	1844	Bu12	NTWA, AHC, HCWA
2	The Residency and Chadd's Store 1896	1896	Bu9	NTWA, AHC, HCWA
2	Corner of Moore & Stirling streets		Bu8	
2	82 & 84 Stirling St Bunbury.	1875	Bu8	NTWA, AHC
2	Three Dwellings, (former boarding house), No's 155,		Bu8	NTWA, AHC
	157, 159 Stirling St.			
2	St Mark's Church, Flynn St Picton.	1842	Bu13	NTWA, AHC
2	Forrest's House, on Preston Rd south of intersection with	1849		NTWA, AHC
	Victoria Rd on banks of Preston River.			
2	Former Picton Inn or Morgan's Inn, Kaeshagen St Picton.	1852		NTWA, AHC
2	Carmody Place			NTWA
2	Flynn St & Charterhouse Cl.		Bu13	NTWA
2	Cathedral Ave & Wetlands			NTWA, AHC
2	CBH Grain Silos, The Strand.	1937		HCWA

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3.2.5 Capel

The Shire of Capel is located 212 km south of Perth and covers an area of 554 km² of which a small portion roughly following the north-eastern Shire boundary is within the study site. It includes the localities of Capel, Boyanup and Gelorup, and has a population of 5 389. Local industry includes mineral sand mining, beef and dairy farming, fruit growing, vineyards, and aquaculture (WAMA 1993). The Preston and Capel Rivers and Ginidup Brook are located within its boundaries.

History

Baudin's expedition of 1801 in the 'Geographe' went ashore at Minninup and planted vegetables south of the Capel River (V. Krantz, pers comm). While exploring the south-west in 1827 and again in 1836 Lt H.W. Bunbury came upon the river that was later to be known as the Capel River. It was named by one of the initial settlers in the region, John Bussell after his English cousin (Fowler 1961).

First settlement did not occur until 1840-1850 when a small number of settlers chose grazing properties. A Mr Childs was amongst these settlers and his property became known as Minninup (Fowler 1961). The coastal areas of the Shire and the areas along the Capel, Ludlow and Preston Rivers and Gynadup Brook were the first to be taken up after the Australind settlement scheme failed, and settlers from Augusta moved north looking for easier land to clear and farm. Most settlers were small farmers with limited resources who took up small holdings near permanent water and gradually expanded their holdings over time. 'Peacocking' was a way of taking the 'eye' out of available land (usually a water hole, swamp etc). This would be purchased and land about then obtained with a lease for a low rent (V. Krantz, pers comm).

In the mid 1840's, a settler called R.G. Payne arrived in the area and settled at 'Lexton Park'. He built a water driven mill on the banks of the Capel River for grinding grain. The mill was distinctive, the entire mechanism built on the basis of a clock, each part carefully constructed from timber grown nearby. Payne went on to construct a 50 ton schooner which was used to trade between Hamelin Bay and Fremantle. By this time, farmers had begun to grow a variety of grains and vegetables as well as grazing sheep and cattle (Fowler 1961).

After 1866, the first bridge was built over the Capel River and a small township developed in the 1880's. The Inn was one of the first buildings constructed in 1883 and several acres surrounding were planted with flowers, fruit trees, and vines (Fowler 1961).

Although the river has always been known as the Capel River, the township and district was first designated Coolingup after the native name for the area. This was not changed until 1899, after the establishment of the railway line which reached the district in 1896, and the Capel Road Board was formed in 1907 (Fowler, 1961).

The arrival of the railway arrived in 1896 increased business opportunities for the local timber industry. Prior to this time timber had mainly been used only locally as transport to Bunbury was via a sandy bush track (Fowler 1961). Farmers also benefited from the rail line as they could now market their produce easily. Potatoes became a major farming crop with a large proportion of the river flats and swamplands being sown. Fruit growing began in the early 1900's and during the 1920's the Stirling Estate (10 000 acres) was opened for selection and a group settlement scheme commenced at Tutunup. However, before intensive farming could commence, extensive drainage was necessary as the bulk of the area consisted of very wet country over which the Capel river discharged its waters. It was during this period of extensive drainage (1903-10), that the stones from the partly finished church at Minninup were used to build a floodgate (Fowler 1961).

Perch and Murray cod were released into the river at the turn of the century and around 1920 the dairy industry showed signs of positive development. Mineral sand mining began in the 1940's (Fowler 1961).

Many of the orchardists undertook ventures of irrigation in the 1940's-50's, the water was obtained from the Capel river using large piping to distribute it through the orchard (Fowler 1961).

Historical sites

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
1	Baudin's expedition went ashore at Minninup - planted vegetables South	1801		Valerie Krantz
	of Capel River.			22 Mounts Bay Rd
1	Governor Stirling in the 'Success' explored the Geographe Bay coast	1827		CRAWLEY 6009
	looking for good water & soil for settlers.			Ph: 3861447 and
2	Settlers moved to areas with permanent water on or near the	1843		Diana Chase
	Capel/Ludlow & Preston Rivers ie. James Child settled at Mininup.			24 Congdon St
				SWANBOURNE 601
	- Samuel Rose - Dougup	1843		Ph: 384 6124
	- James McCourt - Ludlow River	1851		
	- George Payne - Paynes Water Mill on Capel River	1851		
	- James Bessonnet & Thomas Hurst - Preston River	1846		
	- W.J Roberts and family - Capel River and Gignadup Brook.	1864		
4	Some irrigation of fruit trees on Preston and Capel Rivers from 1960's	1960's		
	contact: L. Yates or J Senders (N. Boyanup)			
5	Charles Berber (an engineer) of Elgin designed a drains network to	1900's		
	drain/water his paddocks			
5	Porter Matthers - designed drains network to drain/water his paddocks	1900's		
5	Stirling Drainage Board operated in Shire from early 1900's contact: Mr	1900+		
	Ronald Maidment of Roe Rd, Capel.			
5	Cuts put through to sea to drain wetlands: Higgins and McCourt cuts.	1864/74		
7	Ref: Bunbury, H.W. (1930) Early Days in Western Australia. pp 138 -			
	40.			
8	Whistler family set up a timber mill on the banks of the Preston	1890's		
	(Boyanup).		:	
2	Bessonnets grant: contact Gordon Farley, Nursing Home, Heyes St,			
_	Bunbury timber miller on Capel River aged 95 - very good memory.			
9	Local vegetation: contact Michael Tichbon on Gwindinup (South			
	Boyanup)			
2	Minnimup Homestead, Mangles Rd, Capel	1848	Ca1	NTWA, AHC
2	Payne's Water driven Flour Mill		Cal	NTWA
2	"Paringa"		Cal	NTWA
2	Tuart Forest Landscape Area extending on both sides of the Vasse River			NTWA
	to the east of Busselton, extending to the coast of Wonnerup then to the			
	Ludlow Forest following the border to the Minninup Forest.			
2	Minninup Wetlands at Stratham, 80 ha, 10 km from Capel.			AHC

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3.2.6 Chittering

This area lies approximately 80 km north of Perth and includes Muchea, Lower Chittering Valley, Wannamal and Bindoon. The Shire of Chittering covers an area of 1 188 km2 and has a population of around 1960. Current industries include fruit growing, sheep, cattle and deer farming and mineral sand processing (WAMA 1993). The Brockman River flows through the Shire, and Lakes Needoonga, Chittering and Chandala (wetland) are within its boundaries.

History

The area was first explored in the 1830's, with the first house being built in the mid 1840's. The ruins of this house are located on the west side of the Brockman River just north of the present Bindoon Hotel. The house was known as 'Bindoon', a native name meaning where yams grow (Chittering Tourist Promotion Centre pers comm).

The Brockman River was named after William Locke Brockman who was the first European to take up land in the area. In 1843, he had surveyed land that was immediately south of Lake Chittering including a portion of the lake. This property became known as 'Lakeside' and the house he built (before 1900) still stands. George Fletcher Moore also selected a property in the area in the 1840's near Muchea on the west bank of Ellen Brook (Chittering Tourist Promotion Centre pers comm).

The settlers took up mostly small acreages in the valley for subsistence farming of growing fruit and vegetables, and running a few head of cattle. Distance from markets made the trading of produce difficult until the construction of the railway. The Midland to Gingin railway opened in 1891 and a siding was constructed to serve the Chittering area which became known as Muchea. There is a well in front of the present store in Muchea, apparently dug by Mr R.J. Payne and Mr Harry Hortin in 1901 which was used for watering horses that were used to cart chaff from Chittering (Chittering Tourist Promotion Centre pers comm).

Early industry included 'The Factory' which used machinery to separate gum from the outside of blackboys. This product was then used as a liquid polish for floors. The local men cut the blackboy chips, bagged it and delivered it to the factory (Chittering Tourist Promotion Centre pers comm).

In 1936, Catherine Musk donated one of her farms, 'Mt Pleasant Station' to the Christian Brothers and it became known as St Josephs 'Boys Town' for orphans and later as the Catholic Agricultural College (Chittering Tourist Promotion Centre pers comm).

Muchea attracted local attention in the 1960's, due to the tracking station that was located there, enabling the broadcast of John Glenn's historic space flight to be heard by the people of Perth. The station has now been dismantled (Chittering Tourist Promotion Centre pers comm).

Historical sites

Land	Historic site and/or water use	Date	Мар	Source of information
use			ref	
6	Lake Chandala, 500 ha, 7 km north of Muchea.			AHC
2	First settler's house ruins, on bank of the Brockman	Pre 1857		Chittering Tourist
	River, house was known as 'Bindoon'.			Promotion
2	William Locke Brockman, site of settlement at southern	late		Centre
	end of Lake Chittering and house built late 1800's.	1800's		
3	Muchea Well, in front of store, Muchea.	1901	Ch1	
2	Catholic Agricultural College, Bindoon.	1936	Ch2	

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3.2.7 Collie

The Shire of Collie is located within the Darling Ranges about 200 km by road south west of Perth. It covers an area of 1 685 km2 of which over two thirds is covered by scenic State Forest. The population is in excess of 9 000 and the Shire of Collie includes the suburbs and locations of Ewington, Allanson, Cardiff, Buckingham, Collie-Burn, Shotts, Mungalup and Worsley. The main industries of the Collie area are coal mining, power generation, forestry, alumina mining and farming (WAMA 1993). The Shire contains two major water supply reservoirs, the large Wellington Dam and the newly constructed Harris Dam on the Harris River. Included in the shire are sections of the Collie, Collie South, Bingham, Harris and Brunswick Rivers.

History

Lt Surgeon Alexander Collie and Lt Preston jointly discovered the Preston and Collie Rivers in 1829. The thick forest in the area is probably responsible for the slow rate of settlement in the area, as this would have made clearing for farming very difficult. Early occupancy of the Williams and Arthur River area spread westward as far as Darkan but was temporarily halted by the fringes of the forest. Some settlement took place on the western side of the forest on the Collie River flats but again halted at the forest edge apart from a few timber mills which worked along the fringes (Williams 1979).

The first settlers to pasture stock in the area included Gibbs, Pollard, Rose and Perrin. They and their shepherds moved into the area in the early 1880's, Gibbs grazing cattle on the Muja Flats, Rose grazing his cattle upstream from the present townsite and Pollard establishing a paddock on the Bingham River (Williams 1979).

Although coal was discovered in the Collie area in 1883, there was very little activity in the industry or the townsite until the Commissioner of Railways introduced the bill for the Collie Rail Spur. This was passed through Parliament and many enterprising businessmen took up leases totalling some 102 000 acres in the Collie Mining District. These men then sat back and hoped Collie would make the leases sufficiently attractive to bring in outside capital. The only company to proceed at all was the Collie West Company and in November 1897 six tonnes of coal was raised and sent to Perth for trial on government locomotives (Collie Tourist & Travel Bureau Inc pers comm).

Collie was declared a township in 1897 but the opening of the Collie-Brunswick rail line the following year saw real development of the town begin. In 1900, Collie was designated as a separate Roads Board District. The station was originally known as Collieville and later Colliefield before being shortened to Collie after Dr Alexander Collie. After the formation of the Roads Board, timber was cleared and mine tracks converted to streets. Building boomed and by the end of 1900, Collie had many new municipal buildings such as a Courthouse, School, Hospital, Post Office, Police Quarters and Gaol as well as banks and hotels (Collie Tourist & Travel Bureau Inc pers comm). These new facilities stimulated the timber industry which increased so rapidly that the government locked up much of the land for future forestry use and indirectly helped to preserve what is now a portion of the Wellington catchment (Williams 1979).

A depression in the war years of World War 1 was eased by the commencement of the Collie Water Scheme and in 1931 work commenced on the original Wellington Dam which was completed in 1934 and since raised twice (Collie Tourist & Travel Bureau Inc pers comm).

Land	Historic site and/or water use	Date	1 1 1 1	C C: C
use	The same of Water use	Date	Map ref	Source of information
2	Collie Conservation Area - declared, bounded by	,	101	NTWA
	Throssell St, Atkinson St, Cramton St and Patterson St.			INIWA
8	Buckingham's Mill Group, Coalfields Rd.		Co1	NTWA
2	Municipal Buildings, Throssell St, Collie.		Co2	AHC
2	Roundhouse for Railway Locomotives, Coalfields Rd Collie.	1920	Co2	AHC, HCWA
2	All Saints Anglican Church, Harvey St Collie.		Co2	AHC
2	Old Police Station, Throssell St Collie.		Co2	AHC
2	Railway Goods Shed, Collie.		Co2	AHC, HCWA
6	Lennard Management Priority area, 6600 ha, 20 km east		002	AHC, HC WA
	of Collie.			
6	Surface Management Priority Area, 15125 ha, 15 km			AHC
	north-east of Collie.			
6	Westralia Management priority Area, 2100 ha, 2 km			AHC
	south-west Collie.			
2	Former Collie Post Office, Throssell/Pendleton St.	1898	Co2	HCWA
	Collie Court House, Wittenoom St.	1913		HCWA
2	Swinging Bridge, River Ave Collie. Original built in	1912	Co2	Collie Tourist Centre
ļ	1912 although the present one is a replacement after			
	floods twice washed the bridge away			
2	Arboretum, off Coombe St opposite Soldiers Park Collie.		Co2	
	Recreational pools on the rivers include:		Co3	
1-	Minninup Pool			
-	Honeymoon Pool			
-	Long Pool			
	The Ferns			

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3.2.8 Cuballing

The Shire of Cuballing is located 192 km south-east of Perth and covers an area of 1250 km2. The population is around 800 and the localities of Cuballing, Yornaning and Popanyinning are within its boundaries. Local industry consists of mixed farming, timber products and a large engineering trade (WAMA 1993). It borders the Hotham River and includes the 14 Mile Brook as well as numerous tributaries.

History

The Great Southern Railway link was completed in 1889 and brought a rush of settlers to Cuballing. At this time there were eleven residences listed. By 1905, the town had began to grow strongly with many new buildings and residences constructed including the present Hotel, Post Office and WA Bank (Shire of Cuballing 1990).

Many early settlements followed the discovery of good and plentiful water supplies by men shepherding sheep from one place to another, the freshwater pool in Cuballing was one of these. The homes were generally built as close as possible to a good water source, sometimes a creek, and sometimes a soak. "It was amazing how good the gardens were in some places, with the people being able to completely keep themselves in vegetables." However, water was scarce on many farms and water carting was quite common (Shire of Cuballing, 1990).

Many pools were used as watering points for shepherds and campsites. Lolgray Soak was a popular stopping and meeting point for these settlers. Cuballing Pool was also popular as a stock watering point while Perry's Pool and Town Creek Pool were popular recreational sites. Perry's Pool was the site of the annual district picnic while Town Creek Pool was a natural swimming hole where the "water was always cold and fresh with plenty of leeches" (Shire of Cuballing 1990).

Once it became apparent that the railhead was to be established at Narrogin and not Cuballing there was a steady decline in people coming to settle in the area. After 1916 school enrolments slowly dwindled until in 1929 it closed for a time due to lack of numbers. The great depression of the 1930's also did not help to attract people and many farming families had to leave the area (Shire of Cuballing 1990).

Land	Historic site and/or water use	Date	Мар	Source of information
use			ref	
2	Lolgray Soak, watering point & campsite.			Shire of
3	Many early settlements were made after the discovery of		Cu1	Cuballing, (1990)
	good and plentiful water supplies by shepherds including			5 , ()
	the freshwater pool in Cuballing.			
9	Perch and Gilgies utilised.	to 1940		
2	Perry's Pool, site of annual picnic.		Cu2	
2	Town Creek Pool on Quartermaine's property with		Cu3	
	natural swimming pool			
7	Water at Perry's Pool fresh, cold with leeches.		Cu2	
7	Floods, 1927, 1934, 1945/46, and 1955.			

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3.2.9 Dardanup

The Shire of Dardanup is located 185 km south of Perth entirely within the study region and covers an area of 518 km2. It has a population of 6000 and includes the localities of Dardanup, Eaton and Burekup. Local industry consists of dairying, beef cattle, sheep, timber, abattoirs, brick works, particle board factory, pine and hardwood sawmill and resin plant (WAMA 1993). It is bordered by the Collie River to the north and partially bordered by the Preston River in the west. The Ferguson River, Joshua Creek, Crooked Brook, Henty Brooks and a part of the Wellington Dam are also within Shire boundaries.

History

The district was first settled in 1831, when 24 hectares was granted to Mr James Henty and 42 hectares to Colonel Lantour. In 1838, Mr Robert Charles Prinsep, the Advocate General for the East India Company of Calcutta, purchased land and commenced exporting horses and timber railway sleepers to India. The horse market collapsed in 1871 but the sleeper market continued until the railway line across India was completed (WAMA 1993).

Thomas Little took up land on the peninsula now located within the Harvey Shire and later moved and built what was to be known as 'Dardanup Park'. He had a perchance for helping the Irish and Catholics, possibly with the idea of creating his own Catholic community and set up many settlers as tenant households enabling them later to purchase holdings. In 1856, he had 14 tenant households each with areas under cultivation. Little himself also cultivated an extensive orchard and vineyards. Thomas Little also donated land for the Dardanup Church, the foundation stone for which was laid in 1854 (McGrath 1986).

Another residence was built on the banks of the Preston River and this was known as 'Moorlands'. After the Homestead Act of 1893, which allowed settlers a homestead block, many small tenant farmers took up holdings on the Preston and Ferguson Rivers, forming the basis of many of the present landholdings (McGrath, 1986).

When the Bunbury-Boyanup rail line was completed in 1891, the region of the Upper Ferguson was made accessible for settlement. This was the preliminary stage of railway construction into the south-west and the timber resources of the forests. (Gable, 1988). Private railway lines were constructed to transport the timber from the mills to the Dardanup railway siding. Timber has continued to be a large part of the areas industrial development (WAMA 1993).

Railway, forestry and timber mill workers were in the position to select land in the newly opened regions of the forest under the Land Settlement Acts. After the erection of a dwelling the families set about clearing their land while the wages of the husband/father provided their income (McGrath, 1986).

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
6	Dardanup Park, AHC DB 009511	1854		NTWA, AHC
6	Dardanup Management Priority Area, 1500 ha, 10 km			AHC
	south-east of Dardanup.			
2	Dardanup Church.	1854	Da1	McGrath (1986)
2	'Moorlands', on bank of Preston River.	1890's?	Da2	
8	Wellington Mills Timber Village, south-west of		Da3	Collie Tourist Centre
	Wellington Dam.			
2	King Jarrah Tree, Furguson Rd near Wellington Mill.		Da4	

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3.2.10 Donnybrook-Balingup

The Shire of Donnybrook-Balingup is located 213 km south of Perth and covers an area of 1541 km2 of which only the northern half is within the study region. The population is 4300 and includes the localities of Argyle, Donnybrook, Lowden, Brookhampton, Balingup, Mumballup, Mullalyup, Kirup, Noggerup and Newlands. Local industry consists of sheep and cattle farming, fruit and vegetable growing, a VISY Board cardboard and Humes Pipes factory, and a substantial timber and tree farming industry. (WAMA 1993). About 53% of the Shire is under the jurisdiction of the Department of Conservation and Land Management, most of which is classified as State Forest (Sparkes 1994). The Preston and Capel Rivers are located within the Shire boundaries as well as the Balingup Brook and Blackwood River.

History

The name Donnybrook was used by the first settlers, five Irish immigrants who arrived in the area in 1842 after journeying along the Preston River in search of land to raise cattle and horses. Early attempts at farming were largely unsuccessful as the early settlers lacked the necessary equipment to clear the heavily wooded bushland. At that time, the name Donnybrook referred to immigrants' landholdings and the first township bore the name ÔMinninup'. Donnybrook was gazetted as a townsite in October 1894 (Donnybrook-Balingup Tourist Information Centre pers comm; Sparkes 1994).

Jarrah was a substantial factor for the development of the Donnybrook region and as the timber industry grew many timber mills were established around Donnybrook. There was a great demand for Jarrah for use as railway sleepers both within Australia and from overseas. Although the timber industry began slowly it expanded greatly with the arrival of the rail link from Boyanup in 1893 (Donnybrook-Balingup Tourist Information Centre pers comm; Sparkes 1994).

Another important local industry was mining which started in the 1897-1901 'Donnybrook gold rush'. There was renewed interest in gold in the 1930's and recently much survey work and repegging of old sites has been done (Donnybrook-Balingup Tourist Information Centre pers comm; Sparkes 1994). Mining of Donnybrook sandstone from 1899 played an important role in the towns history and was used in the construction of many Perth buildings including the Commonwealth Bank and General Post Office in Forrest Place and the Supreme Court building (Donnybrook-Balingup Tourist Information Centre pers comm; Sparkes 1994).

Demand for agricultural land resulted in the huge pastoral leases being broken up into smaller farm holdings. Cattle and sheep farming became established and orchards were also established around this time with the first apple orchards appearing in 1890. Donnybrook is well known as a producer of the 'Granny Smith' apple. Other fruit crops, vegetable and apple exports from the area began in 1909 (Donnybrook-Balingup Tourist Information Centre pers comm; Sparkes 1994).

Balingup was settled around 1860 although the town was not gazetted until 1898 after being connected to Donnybrook by rail in 1897. Prior to this Balingup was a staging post with a postal station receiving mail from Bunbury twice a week. Balingup was home to only a small timber mill and cheese factory and in 1970 the Balingup and Donnybrook shires amalgamated (Donnybrook-Balingup Tourist Information Centre pers comm; Sparkes 1994).

Land	Historic site and/or water use	Date	Map	Source of
use	The state of the s	Date	ref	information
2	Explorers (G. Nash, J. Schoales, J. Bessonett) searching	1842	101	Sparkes (1994)
	for land to raise horses and cattle journeyed along the	10.2		Sparkes (1774)
	Preston River			
2	Road links to Bunbury established by convict labour.	1852		
2	Rail links established.	1893		
8	Timber industry growth and new mill establishment.	1890's		
2	Apples industry.	1890	1	
2	Apple processing and jam factory established.	1909		
2	Gold discovered and mined for four years.	1897		
2	Sandstone quarried.	1900's		
2	Anchor & Hope Inn, South Western Hwy, Donnybrook.	1845	Db1	NTWA, AHC
2	Blackwood Inn, Old Mulalyup Inn & Barns (Old	1865	Db2	NTWA, AHC,
	Mullalyup Inn Group,) South Western Hwy, Mullalyup.			HCWA
2	"Brooklands", Nelson Loc 8123/8124, Balingup/Nannup	1904	Db3	NTWA, AHC
	Rd, Balingup.			
2	"Careyale", Cemetery Rd, Wellington Loc 189,	1888	Db1	NTWA, AHC
•	Donnybrook.			
2	Crendon Homestead, Upper Capel Rd, Donnybrook.	1885	Db1	NTWA, AHC
2	"Eulamo", Balingup		Db4	NTWA
2	Ferndale, formerly Somerset House - cnr Balingup-	1860's	Db5	NTWA
2	Nannup Rd/Hay St.			
2	"Golden Valley" Homestead, Padbury Hill Rd, Balingup	1895	Db4	NTWA, HCWA,
2	Grimwade		L	AHC
2	"Hawterville" Farmhouse and Garden Setting, South	1005	Db6	NTWA
2	Western Hwy, Mullalyup.	1895	Db2	NTWA, AHC
2	Old Brookhampton Hall - Brookhampton	1000	DLZ	NEW HOUSE
_	old Brooklampton Hair - Brookhampton	1900	Db7	NTWA, HCWA,
2	Old Brookhampton Farm - Brookhampton		Db7	AHC
2	"Brookview", Old Brookhampton Rd.	1886	Db7	NTWA, AHC
2	"Southampton", Forest Lease 1122/40, Jones Rd,	1862-82	Db8	NTWA, AHC NTWA
	Balingup	1002-02	1000	INIWA
2	Southampton Homestead - Jones Rd, Balingup	1862	Db4	HCWA, AHC
2	"Torridon", Newlands, Preston Ag Loc 4617	1873	Db9	NTWA
2	"Yabberup Hall", Preston Town Loc 6, Yabberup	1896	Db10	NTWA
2	"D 111 G	1883	Db1	NTWA, AHC
	Loc 590/1377).			,
2	Universal Brotherhood Homestead, Balingup.		Db4	NTWA
2	"Woodlands" Group, Boyup Brook Rd Lowden.	1885	1	NTWA
6	Powlalup Nature Reserve, 67 ha, AHC DB 009515.		1 1	AHC
	0.5	1898	Db4	AHC, NTWA

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3.2.11 Gingin

The Gingin Shire is situated approximately 84 km north of Perth and covers an area of 3 325 km2, the majority of which is within the study region. The population of the area is about 3000 and includes the townsites of Guilderton, Seabird, Ledge Point, Lancelin and Gingin (WAMA 1993). The Shire contains many lakes and wetlands as well as the Moore River, Gingin and Quinn Brooks and Red Gully Creek.

History

Gingin was first explored by George Fletcher Moore in 1836 and in the same year Captain Norcott and party explored the areas watercourses. First settlement occurred around 1850 (W.J. de Burgh pers comm) at Chereton with other early settlements at Lennard's Brook, Running Stream, Lake Bambun, Nullilla Brook and Breara Brook (H. Dewar pers comm). Pastoral leases were granted using the river, brooks and lakes for stock watering in 1850-51. Cattle, horses and to a lesser extent sheep have been grazed over the whole area since first settlement. (W.J. de Burgh pers comm). All the main watercourses were used such as the Gingin Brook and Moore River as well as swamps and lakes including three small freshwater swampy hollows near the beach between Lancelin and Ledge Point for watering stock (W.J. de Burgh pers comm).

An early travel and stock route known as 'The Old North Rd' forded the Brook at Neergabby and the river at Cowalla and wells were also known to have been sunk along this route (W.J. de Burgh pers comm).

Lake Bambun is a freshwater lake fed by numerous brooks and from 1990 - 1950 it was a popular recreational area for picnics and sporting events for the Gingin residents. Mechenburra and Beermullah lakes have been used for recreation more recently (Mitchell McCotter & Associates 1989).

The Houghton Winery (Moondah House), on Moondah Brook is a well known historical site built in 1880 (listed by the National Trust of Australia, WA) and other historical homesteads exist in the area such as Cowalla and Downa (W.J. de Burgh pers comm). The Brook is permanent and fresh and initially used for irrigation along with small schemes from bores and lakes ie. at Cowalla, 100 acres were irrigated from 1914 to the 60's. The water in the Moore River gradually became more salty with inland clearing and by 1965 was unusable except by stock (W.J. de Burgh pers comm).

There was an attempt by the Government to start a closer settlement to Perth in the 1920's and a native settlement was established at the mouth of the Moore River (W.J. de Burgh pers comm).

Lanc	Historic site and/or water use	Date	Мар	Source of
use	The same of the disc	Date	ref	information
1	Freshwater Brooks, Gingin Brook & Lennards Brook	1840's	101	Hazel Dewar
	used by early explorers	10403		16 Weld St
2	Chereton - first settlement.		Gg1	GINGIN 6503
2	Early settlement at:	1850's-	Ugi	Ph: 575 2367
	- Shallow Wells.	1860's		FII. 373 2307
	- Lake Bambun	10003	Gg2	
	- Running Stream		Gg2	
	- Moore River		Ugs	
	- Nullilla Brook			
3	All water from brooks and shallow wells	1800-		
3	Bore water for town supply	1960?		
4	Irrigation from brooks	1860's -		
4	Large scale irrigation from brooks, swamps & bores	1980's -		
7	People always used this water without ill effect	17003		
9	Trout & Marron introduced at various times			
1	G.F Moore and party would have used river water	1836		Mr W.J. de Burgh
1	Exploration along water courses in same year by Captain	1836		3/26 Plantation Dve
	Norcott and party.	1050		Swan Cottage Homes
2	First Settlement	1850		BENTLEY 6102
2	Pastoral leases granted using river, brook and lakes for	1850-51		Ph: 472 3321
	stock watering		Ì	14. 1/2 3321
2	Early travel route "The Old North Road" crossed The			
	Brook at Neergabby and the river at Cowalla.			
3	The river and brook, each flowing at about 2 000 000	1850-		
1	gallons per day were excellent for domestic and stock	1950		
	water			
4	Irrigation, about 100 acres, at Cowalla. These were small	1914-		
	schemes from bores and lakes.	1965		
5	Very little drainage work			
6	A large number of the freshwater lakes south of the river			
	are now in the Moore River National Park.			
7	The water in the Moore River gradually became more	1965		
	salty with the clearing of the wheatbelt and became			
	unusable except for stock by 1965			
7	The Brook is permanent and fresh.			
9	No commercial use but gilgies, fish, ducks etc used for			
	human food and mussels for pig food.] [
2	"Moondah" House, kitchen and garden, Moolyabeenie	1880	Gg4	NTWA, AHC
	Rd.			,
2	Beedaminnup Homestead, West Rd.		Gg5	NTWA, AHC
2	"Cowalla", West Rd.	1852		NTWA, AHC
2	"Downa", West Rd.(House & graveyard)	1874	1	NTWA

Historical sites (contd)

Land	Historic site and/or water use	Date	Map	Source of
use			ref	information
2	Former Junction Hotel, West Rd.	1873	Gg8	NTWA
6	Banpanup Nature Reserve, 81 ha, 10 km south of Gingin.			AHC
6	Bindoon & Chittering Lakes, 230 ha, 19 km south-east of			AHC
1	Gingin.			
6	Bootine Reserve C9676, 30 ha, 16 km north-west of			AHC
	Gingin.			
66	Gingin Brook, 120 ha, Gingin.			AHC
6	Lake Wannamal, 90 ha, Gingin.			AHC
6	Moore River National Park, 17 543 ha, 30 km north-west			AHC
	of Gingin.			
6	Molecap hill Quarry, 1 ha, 1.5 km south of Gingin.			AHC
6	Reserve 24559 & Timbermill, 486 ha, 10 km north east			AHC
	of Gingin.			
6	Reserve C31241, 337 ha, 10 km south west of Gingin.		<u> </u>	AHC
6	Yeal-Gnangara Area, 25 00 ha, 10 km south west of			AHC
	Gingin.			
6	Bartletts well, 117 ha, 25 km north west of Gingin.		Gg9	AHC
6	Beermullah Lake, 102 ha, 25 km north west of Gingin.			AHC
2	Gingin Post Office, Brockman St.	1886	Gg10	HCWA
2	Railway Station & Quarters, Jones St.	1891	Gg10	HCWA

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3.2.12 Harvey

The Shire of Harvey is located 140 km south of Perth and covers an area of 1 766 km², and occurs entirely within the study area. The population is approximately 15,000. The Shire includes the localities of Yarloop, Cookernup, Harvey, Wokalup, Benger, Brunswick, Roelands, Australind, Binningup, Myalup, Leschenault, Parkfield, Wellesley, Beela, Mornington, Hoffman, Warawarrup and Uduc. Local industry consists of mixed farming, mining and timber (WAMA 1993). Several rivers are within the Shire boundaries including the Harvey, Brunswick, Collie and Wellesley Rivers and the Harvey, Logue Brook and Meredith Drains. The Logue Brook, Stirling and Harvey Weir Dams are also within the Shire.

History

In 1830, Peter Augustus Lantour obtained a 200 462 acre grant, for more than half of the Harvey district but this was later to be mostly resumed. The area now called Cookernup was first explored by Stephen Henty and Thomas Peel in 1835 when they were guided through the reaches of the Harvey River by Aborigines. The Harvey town area was originally named by Stirling as Korijekup (Coraigeca), taken from the Aboriginal Korridgeecup, meaning place of the red tailed black cockatoo (SH 1995).

Thomas Little, who would later settle in Dardanup, purchased 1832 acres on the peninsula flanking the western side of the Leschenault Inlet for cattle grazing and horse raising. He introduced water buffalo to the area in 1843 and herders built a hut on the northern end of the peninsula which was still standing in 1978 (McGrath 1986).

Prior to 1870, there was little activity in the inland region. The first recorded settler was Joseph Logue who arrived in 1849 and selected rich land on the banks of what became known as Logue Brook. Around 1886, John Bancells took up 100 acres on what is now known as Bancells Brook and the following year W.J. Eastcott settled nearby (HCWA 1988ff). A hunting lodge was built on the banks of the Harvey River in 1849/50 approximately one mile east of the present townsite, it was extended in 1883/84 and became known as 'The Homestead' (SH 1995).

The town of Yarloop was established as a mill town in the late 1890's near a railway siding on the South Western railway line which had opened in 1893. Initially it was a private timber town established by Millar's Timber Company on the east side of the railway track however swampy land on the west side was drained and made available for purchase. The Yarloop Milltown, railway workshops and sidings became the focal point of Millar's operations and continued into the mid 1900's and Bunnings Ltd still operate there today. As well as timber, farming played an important role in the area (HCWA 1988ff).

Immigration, the collapse of many farming ventures and the Depression lead to wide spread unemployment in the early 1930's. In 1930, one of the biggest community employment programmes began in Harvey. This was a government sponsored plan to divert the Harvey River to an outlet at the ocean near Myalup, which relieved the fear of flooding downstream and brought valuable agricultural land into production. The scheme employed between 2 500 and 3 500 men who lived in camps at Myalup and nearby Stonehouse. Although many other works were begun at this time the Harvey River Diversion Scheme employed more men than any other and this and other schemes at Collie and Waroona enabled irrigation to be extended and more land brought into production by allowing winter drainage and summer watering. Orchards were planted in the early 1900's and dairying expanded after the 1930's until it was estimated that these irrigation schemes supplied an area of approximately 76 000 acres (Harvey Tourist Centre pers comm).

Harvey was also the site of an Internment camp from 1940-1942 for mainly Italian immigrants. After Mussolini joined forces with Hitler, Italian migrants were classed as 'Enemy Aliens' and interned or man-powered. A camp was created at Harvey on the banks of the Harvey River, the site of which is now marked with a shrine, and held between 500 and 1000 persons, and 200 guards (HTC 1995).

Land	Historic site and/or water use	Date	Map	Source of information
	ristoric site and/or water use	24.0	ref	
use 2	First farm in Brunswick was called 'Alverstoke', wheat,	1842	H1	Mr Ross Warburton
	barley and potatoes were first grown here.	10,2		PO Box 74
7	Brunswick River	1842-		BRUNSWICK JN
3	Brunswick River	1995		6224
		.,,,		Ph: 097 261035
2	Harvey Internment Camp on River	1941-42	H2	Harvey Tourist
2	Harvey Internition Camp on Kivo			Centre
4	Harvey River Diversion and Drainage Scheme.	1930		Ph: 097 291 122
4 4	Harvey Weir	1,000		
	Stirling Dam			
3	Logue Brook Dam			
3 7	Lake Preston, saltier than the sea has many fresh water			
,	springs around the edges.			
2	Gibbs Pool at the Harvey Weir used to be the local			
-	swimming hole prior to the construction of the town pool.		-	
	Peninsula, western side of Leschenault Inlet, site of	1830's	—	McGrath (1986)
2	Thomas Littles grant.	1050 3		(====)
<u> </u>	Herder's Hut, northern end of peninsula.	1840's?		
2		1849 &		SH (1995)
2	Hunting Lodge, later 'The Homestead' was built here, 1	1883		DIT (1993)
	mile east of the Harvey townsite.	1862	H3	NTWA
2	"Springhill", Loc 17, 25 km north Bunbury, Old Coast	1602	113	141 W11
	Rd, Australind.	1847	H4	NTWA, AHC
2	Upton House, Old Coast Rd/Upton Pl, Australind.	1840's	H4	NTWA, AHC
2	Henton Cottage, 2 Paris Rd, Australind. Shrine: Internees Camp Site, Paris Rd, Australind.	1941	H4	NTWA, AHC
2		1860	H4	NTWA, AHC
2	St Nicholas' Church, Paris Rd, Australind. "Cooks Park" Farmhouse, east shore Leshenault Inlet,	1860	H5	NTWA, AHC
2		1000	1115	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Scenic Dve, Australind St Peter's Church, Brunswick Junction.	1911	Н6	NTWA, AHC
2		1898	H7	NTWA, AHC
2	Historical Museum, Uduc Rd, Harvey. Runnymede and Florrie's Historic Cottage Group,	1070	H6	NTWA
2			110	
	Wellesley Rd cnr 10th Light Horse Bridle Trail,		Ì	
	Brunswick Junction. Former Mill Managers House, Clifton Rd cnr south-west		Н8	NTWA
8			1	
	Railway, Yarloop. Yarloop Mill Town Conservation Area	1890's		NTWA, AHC
8	Marshall Waller Clifton memorial, AHC database no	10,00		AHC
2				
	'009550 Brunswick Collie and Wellesley Rivers, 500 ha, AHC DB			AHC
6	1			
	'017887.	1	Н6	AHC
2	Alverstone Farm Residence, Clifton Rd Brunswick.		H9	AHC
2	Bundidup Cottage, Wokalup.	1		
2	Millars Housing, Yarloop.		H8	AHC

Historical sites (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
8	Timber Mill Workshop Complex, Railway Pde Yarloop.		Н8	AHC
6	White Rocks, Brunswick, AHC DB No 009547.			AHC
6	Crampton Nature Reserve, 37 ha, 16 km north-west of			AHC
	Harvey.			
6	Reserve 22797, 301 ha, 8 km east Harvey.			AHC
6	South West Irrigation area, AHC DB No 009509,			AHC
	Harvey.			
6	Virgin Forest (area 1), AHC DB No 009552, Harvey.			AHC
6	Benger swamp, 12 km south-south-west of Harvey.			AHC
6	Reserve 12049, 79 ha, 8 km west of Yarloop.			AHC

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3.2.13 Mandurah

The City of Mandurah is located approximately 70 km south of Perth and covers an area of 179 km², which is located entirely within the study region. The population is about 31 780. The city has several suburbs and localities including Madora to the north and Clifton to the south. Local industry includes a large tourism industry, fishing, business and commerce (WAMA 1993). The mouth of the Peel Inlet, Dawesville cut, Lake Clifton, Boundary Lake and the Swan and Duck Ponds all lie within the Mandurah area.

History

Thomas Peel obtained the first land grant at Mandja, a meeting place for Aboriginals at the mouth of the Peel Inlet in 1830. His grant was actually 250 000 acres of land extending from Clarance, (now Woodman Pt), to the banks of the Murray River. The initial settlement was known for some time as Peeltown and later the Aboriginal name was later translated to the English version of Mandurah (Mandurah Tourist Bureau pers comm).

Among the first settlers was John Tuckey and T. Eacott who were granted 50 acres each by the Governor from Peel's estate because Peel could not pay their wages and had not supplied their families with sufficient food (Mandurah Tourist Bureau *pers comm*).

By the end of 1830, the settlement consisted of approximately 50 persons and an amount of cultivation had taken place with several houses being built. A detachment of soldiers were sent to the town for protection of the public after the Aborigines became hostile with the influx of settlers. A soldiers camp and barracks were built at Soldier's Cove near the present traffic bridge where the old Police Station now stands (Mandurah Tourist Bureau pers comm).

In 1832, Edward Hall acquired land four miles south of the town and built a house on the western shore of the Peel Inlet which was later destroyed by fire. He rebuilt in 1832 and his cottage still stands and is home to the Mandurah Historical Society (Inc). In the south-east corner of his property is a limestone lined well (Mandurah Tourist Bureau pers comm).

The Mandurah area was home to several industries and was known as being a large contributor of wheat to the Perth market in the 1840's. Henry Hall, son of Henry Edward Hall took over his father's farm and timber business after his death in 1859. A fish preserving works was constructed on the shore of the inlet in 1880 by the Tuckey family and was serviced by a jetty. A preserving works had already existed in the town since 1877. Many other canning works sprung up around the town and large numbers of local fish provided for a thriving industry. A ferry service operated from the early settlement across the inlet until the bridge was built at the site of the present town bridge in 1894. A timber mill was later constructed at Soldier's Cove in 1911 to cater for the increasing trade in timber brought down to the town for local use and export (Mandurah Tourist Bureau pers comm).

The Brighton Hotel opened its doors in October 1895 and a large residence purchased by the Tuckey family became the Peninsula Hotel. Mandurah then began to become a holiday resort for Perth (Mandurah Tourist Bureau *pers comm*).

Mandurah became a Road Board independent of Murray in 1949 and in 1990 City Status was conferred upon the town. Mandurah is a summer destination for many people and provides many recreational activities along the shores of its beaches and rivers with a thriving population expected to reach 50 000 by the year 2000 (Mandurah Tourist Bureau pers comm).

Land	Historic site and/or water use	Date	Map ref	Source of information
use		Bute	Mapier	Source of information
2	Thomas Peel obtains land grant at 'Mandja'	1830		Mandurah Tourist Bureau Inc
2	Hall Cottage, Leighton Pl.	1832	Ma1	5 Pinjarra Rd
2	Leighton Farm, Old Coast Rd.	1849	Ma2	MANDURAH 6210
2	Creery's Cottage, Soldiers Cove.	1832	Ma3	Ph: 535 1155
2	Dalrymple School, Behind the traffic bridge	1898	Ma4	111.000 1100
2	Mandurah Bridge.	1894	Ma5	
2	Tuckey's Peel Inlet Preserving Works, Mandurah Tce.	1880	Ma6	
2	Tuckey's Cottage, Mandurah Tce.	1857	Ma7	
2	Ambassador Picture Gardens, Mandurah Tce.	1925		
2	Turner's Guest House, Mandurah Tce.	1900	Ma6	
2	First Petrol Station, Mandurah Tce.	1900's	Ma6	
2	Mandurah Preserving Works & Barracks.	1877	Ma6	
2	Brighton Hotel, Mandurah Tce.	1880	Ma6	
2	Mandurah Bakery, Mandurah Tce.	1900's	Ma8	
2	Peninsula Hotel	1890	Ma9	
2	Peninsula Footbridge.	1913	Ma8	
8	Mandurah Sawmill, Soldiers Cove.	1911	Ma10	
2	Ferry Landing, Soldiers Cove.	1842	Ma10	
2	Government Jetty, Mandurah Tce, goods handling to Perth	1897	Ma6	
	and Fremantle.			
2	Dalrymple Jetty, built by government for recreation.	1906	Ma5	
2	Ford at Harvey Estuary, 1 mile south of Mt John, used	1862		Richards (1978)
	frequently by Sutton, Heron, McClarty and other families			` '
ĺ	moving cattle.			
2	Birchmont House and outbuildings had a spring at the bottom			
	of the garden. North of the house was a 'big lake' and			
	vegetables were farmed around it.			
2	Former Hardey House, Estuary Rd.	1853		NTWA, AHC
	Hall's Historic Cottage, Leighton Rd.	1850	1	NTWA, AHC, HCWA
2	Christ Church and Churchyard, Scholl St.	1843		NTWA, AHC
2	Carlisle Castle, AHC DB No 010654		1	AHC
	James Service, AHC DB No 010665		1 1	AHC
2	Leighton Farm, AHC DB NO 010666		1	AHC
6	Boodalan Island, 2 ha, 7 km south-east of Mandurah.			AHC
6	Geogrup Lakes, 2000 ha, 10 km north-east of Mandurah.			AHC
6	Lakes McLarty & Mealup, 600 ha, 25 km south of Mandurah.		I	AHC
2	Paganoni, 10 km north of Mandurah.		i	AHC

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3.2.14 Murray

The Murray Shire is situated approximately 70 km south of Perth and covers an area of 1 813 km2 entirely within the study region. It encompasses the townsites and localities of Pinjarra, North Yunderup, South Yunderup, Coolup, North Dandalup, Furnissdale, Ravenswood, Dwellingup, Murray Bend, Barragup, North Pinjarra, Nambeelup, Meelon, Birchmont, West Pinjarra and Stakehill and has a population of approximately 10 100. Local industry consists of farming (beef, sheep, pig and dairy), orchards, timber, tourism and bauxite mining and refining (WAMA 1993). The South and North Dandalup Dams are major water sources located within the Shire and major watercourses are the Murray, Serpentine, North Dandalup and South Dandalup rivers. The Peel Inlet and Harvey Estuary and Goegrup lake chain are also within its municipal district.

History

The first recorded exploration of the Murray River district was in November 1829 when Lt R.N. Preston and Dr Alexander Collie anchored the 'Sulphur' in Cockburn Sound and took two whaleboats south to a river between the Sound and Lechenault Inlet. Although, they were not impressed by the area around the Peel Inlet, Thomas Peel went ahead and placed a group of settlers here in 1830 (HCWA 1988u).

Four years later, a Mr Carter and his stock-keeper conducted an excursion upstream in an attempt to recapture some stray cattle. The Perth Gazette reported: "On their first excursion, Mr Carter has informed us, they fell in with a plain of the richest grass and the finest loam they had seen in the Colony, comprising an area of about 4 000 acres..." (HCWA 1988u).

An expedition to survey the Pinjarra district in 1834 was led by the Governor James Stirling and the Surveyor General, John Septimus Roe. The party were also intent on tracking down some Aborigines responsible for the death of a young private at Mandurah a few months earlier. On October 28th, they came across a group of 60-80 Aborigines and identified certain members as being responsible for the murder. The ensuing 'Battle of Pinjarra' as it was later known was the final breakdown of Aboriginal defence against European settlement in the Pinjarra region (HCWA 1988u). It should be noted that recent historical interpretations have painted a less noble picture of the battle than earlier accounts did (see Reece and Stannage, 1984)

A military post was established near the site in 1836 and settlers began occupying land grants along the Murray and a townsite was surveyed. In 1838, a road was surveyed from the Canning River to the Leschenault Inlet and in the early 1840's after the road was cleared and marked, a bridge was built over the Murray River. The name Pinjarra was Pinjarrup on early maps which was based on the name of the local Aboriginal tribe, 'Pindjarup', meaning place of swamp (HCWA 1988u).

Initial industries were farming however after the establishment of a network of railways in the early 1900's the timber industry became established at Dwellingup. A State Mill was established there and between 1914-1918 became a major centre boasting many facilities. A Mill was also established at Nanga Brook and Holyoake and an extensive tramway network was created through the forest. A railway dam was created at Etmilyn and the rail network was continually created and dismantled as the forest was felled. Eventually the timber became severely depleted and many companies moved to other areas further south (HCWA 1988g).

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
1	Exploration by Lt R.N. Preston and Dr Alexander Collie.	1829		HCWA (1988u)
1	Pinjarra district surveyed by party led by Governor	1834		
	Stirling and Surveyor General John Septimus Roe.			
2	Military post established.	1836		
2	Original Road Board Office, 28 George St.	1870's	My1	
2	Courthouse, George St.	1935	My1	
2	Post Office, George St.	1895	My1	
2	St John's Church, Henry St.	1860's	My1	
2	Old Schoolhouse, Henry St.	1896	My1	
2	Liveringa, Henry St.	1885	My1	
2	Edenvale, Henry St.	1888	My1	
2	Old Blythewood, 3 km south of Pinjarra.	1860	My2	
2	Pinjarra Bridge	1840's	My1	
6	Pioneer Memorial Park, George St, containing some of	1870's	My1	
	the oldest Oak and Pine trees in the district.			
4	Etmilyn steam locomotive watering point and dam.	1920's	My3	HCWA (1988g)
8	Timber tramways along Davis Brook, Dwellingup.	1900's		
8	Mill sites and townsites of Holyoake and Nanga Brook	1890's-	My4	
	located along Davis Brook watercourse	1961		
2	Cooper's Mill, Culeenup Island.	1843	My5	Murray Tourist Centre
6	Lane Poole Reserve, 54 000 hectares.			PO Box 277
3	South Dandalup Dam			PINJARRA 6208
3	Oakley Dam			Ph: 531 1438
2	Scarp Pool			
2	Baden-Powell Water Spout			
2	Island Pool			
2	Thomas and John Pollard each had 10 acres adjoining a			Richards (1978)
	ford on the river on what is now East Coolup Rd. A tree			
	is said to have marked the site where a mud brick cottage			
	once stood.			
2	Edenvale Precinct and Group, South West Hwy Pinjarra.		Myl	NTWA, AHC, HCWA
2	Fairbridge Farm School Group, on South Dandalup	1921	My6	NTWA, AHC
	River off SW Hwy.			
2	Ravenswood Hotel, on bank of Ravenswood River,	1863	My7	NTWA, AHC
	Lloyd Ave.			
2	Pinjarra Park, 3 km south-east of Pinjarra, Williams Rd.	1858	Myl	NTWA, AHC
2	"Old Blythewood", 3 km south of Pinjarra, South-	1840	My2	NTWA, AHC
	Western Hwy.			
2	Pinjarra Railway Precinct, cnr South-Western Highway	1892		NTWA
	and Williams Rd			
2	Grass Tree Cottage, Old Bunbury Rd Coolup.	1890		NTWA, AHC
2	Cooper's Mill on Culeenup Island Yunderup.	1843	My5	NTWA, AHC

Historical sites (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Marrinup No 16 Prisoner of War Camp, AHC DB 0019050			АНС
2	St John's Anglican Church, Henry St Pinjarra.		My1	NTWA, AHC
2	Pinjarra Post Office and Quarters, George St, Pinjarra.		Myl	AHC, HCWA
2	Creaton, Paterson Rd, Pinjarra.		My1	AHC
6	Austin Bay Nature Reserve, 243 ha, 9 km west of			AHC
	Pinjarra.			
6	Harvey Estuary Nature Reserve, 1019 ha, 18 km south-			AHC
	west of Pinjarra.			
6	Nature Reserve 4990, 350 ha, 8 km west-north-west of			AHC
	Pinjarra.			
6	Nerimba Bay Nature Reserve, 892 ha, 10 km west of			AHC
	Pinjarra.			

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3.2.15 Narrogin

The Shire of Narrogin is located 190 km south east of Perth and covers an area of 1618 km² although only the north western third is within the study region. Narrogin is comprised of both the Shire and the Town and the combined population is 6 165. Localities within the district include Highbury, Yilliminning and Normans Lake. Industries are farming (sheep, crop, cattle and pig), timber milling, meatworks, and some engineering works (WAMA 1993). The Williams River is the only major watercourse located within the Shire, however the Narrogin, Arthur and Yilliminning Rivers, and Lakes White, Lukin, Normans and Taarblin also occur in the Shire.

History

The first exploration of the area was by John Septimus Roe in 1830 and later in 1869 by John Forrest who described a location within the present townsite with reference to Narrogin Pool.

First settlement consisted of shepherds moving sheep through the area in the 1860's. Shepherds utilised the many pools along the creeks and rivers, as well as soaks and springs. This included Narrogin Pool at the present townsite, Kunderning Pool on the Williams River, Yilliminning Pools and a stoned soak near Birdwhistle Rock east of Narrogin (Maurie White pers comm).

The area was surveyed as Williams Location 177 in 1869 and land grants were taken up by settlers in the 1870's. Early settlement was located around the watering points with settlements at Kunderning Pool, Bailaling Spring, Torbling Springs, Wolwolling Pool, Dumberning Spring and Marramucking Well. Early sheep dips and washes were used in many places and later Chinese market gardens established at a number of soaks in the 1890's (Maurie White *pers comm*).

From 1881, the West Australian Government actively pursued the idea of a railway line between Perth and Albany. The WA Land Company successfully bid for the contract and the line was constructed from 1884-1889. The Land Company found itself short of a watering place for its engines and so acquired Narrogin Pool. The Beverley to Albany Railway Act of 1887 granted all unowned land within the Narrogin townsite to the WA Land Company. A plan of the town was drawn up in 1889 and used as the basis for development, much of which still applies today. The Narrogin Road board was gazetted in 1892 after secession from the Williams Board (HCWA 1988p).

Initial settlement was bolstered by the development of the railway, however early settlers had to look to other sources for income. Many of Narrogin's early settlers offset the financial problems caused by poor initial harvests by selling sandalwood and mallet bark, both native to the region. Sandalwood was eagerly sought after in Asia for use in incense and oils and indiscriminate harvesting of the bushes has meant that it is now rare in the area. The bark of mallet trees growing wild on the hilltops in the region was found to be a useful agent for the tanning of leather and large areas around Narrogin were planted with trees to serve as a long term source of income. However synthetic tanning agents were developed and the trees subsequently left uncut resulting in the creation of reserves. Some harvesting of mallet continues today mainly for use in axe handles (HCWA 1988p).

Land	Historic site and/or water use	Date	Мар	Source of information
use		1	ref	
1	Exploratory journey through area by John Septimus Roe	1830		Mr Maurie White
2	Sheperd movements through area.	1860's		Hon Curator
3	Pools used by shepherds include -			"Old Courthouse"
				Museum
	- Kunderning Pool on Williams River, west of		Na1	NARROGIN 6312
	Narrogin.			Ph: (098) 814 134
	- Gnargojin Pool on Narrogin Creek (current location			
	of Narrogin).			
	- Yilliminning Pools, East of Narrogin.			
	- Narrogin Creek.			
	- Stoned soak near Birdwhistle Rock - east of Narrogin.			
	- Four Mile Well - east of Narrogin.			
	- Ford at Rocky Crossing near the Kunderning Pool -		Nal	
	west of Narrogin.			
	- Stoned Ford to cross the Arthur River at one end of		İ	
2	Wolwolling Pool near Highway south of Narrogin.			
2	Farming and pastoral settlers including G. Dyson, W.F.	1870's		
	Weise, W. Graham, E.R Weise, J.H. Stevens and the			
_	Pustkuchens			
2	Settlement located at these springs and pools -			
	Kunderning PoolBailaling Spring, (W.F. Wiese)		Nal	
		1000	N-2	
	- Torbling Spring, (W. Graham).	1900	Na2	
	Wolwolling Pool, (E.R Weise).Dumberning spring, (J.H. Stevens).	1071	NI-2	
	Dumberning spring, (J.H. Stevens).Marramucking Well, east of Narrogin, (Pustkuchens).	1871	Na3	
2	Early sheep dips and washes -			
2	- Old Forest Lodge, Highbury West Rd			
	- Narrakine Gully, Near Highbury			
	- Newmans sheep washing pool			
	- Taylor's Soak			
2	Chinese market gardens utilising soaks;	1890+		
-	- Trefort property immediately north of Narrogin.	1900's		
	- Dumberning location No. DAA178 to west of	17003		
	Narrogin.			
2	Township of Narrogin resulted from the railway being			
	built by the West Australian Land Company.			
l I	Gnargojin Pool railway siding.	1880's		
	Railway Dam near Gnargojin Pool on Narrogin Creek.	1906		
	Railway Dam on southern side of town.	1910's	Na4	
	Railway Dam, Yoraning to the north of Narrogin.	->100	"	

Historical sites (contd)

Land	Historic site and/or water use	Date	Map ref	Source of information
450	- Railway Dam, Congelin to the north east of Narrogin.			
7	Saline water of the Narrogin Dam caused problems for			
f	the steam locomotives			
3	Domestic water tapped from an underground stream		7	
	running north-south through the town centre		Ì	
3	Public Wells, Federal St and Felspa St.		Na5	
3	Battle Creek Reservoir.	1920's		
5	Narrogin Creek through town realigned, periodically	1920's-		
	cleared of bulrushes and weed growth, mosquito swamps	1950's		
	cleared, storm water pipes feed into creek.			
2	Railway dam - water for steam trains - now recreation at		Na6	Mr Ned Crossley
_	South Toolibin, Dulbinning.			Dept of Agriculture
3	Government dams built for drought relief at Toolibin.		Na7	10 Doney St
5	Toolibin Lake used to fill each year but not so often these			NARROGIN 6312
	days despite continued land clearing			
7	Lakes below Toolibin salty for at least 50 years.			
3	House well			
3	Rain water tank (house)	1947-		
		1950's		
3	Rain water tank (school)	1935-		
		1943		
3	Sandpit by railway line (Hillman Dam) (dried up in	1907		
	summer)			
7	Government well: "like rainwater"			
7	House well "always muddy"			
7	Lake Towerrinning - onset of salinity	1971-		Ms Angela Sanders
		75		
7	Arthur River (specific location according to study) - onset	1941-		c/ Dept of CALM
	of salinity.	45		
2/3	Murrin Murrin', Cuballing Rd South West (north),	1890's	Na8	HCWA (1988p)
	originally taken up by the Barron family, freshwater			
	spring and well.			
2	Sylvania', Spouse Rd (east), site of Ted Pustkuchin's	1904	Na9	
	house on the creek bank.			
2	Minigin', Clayton Rd (north).	1870's	Na10	
2	Bannister Site, (Carter's Crossing), originally chosen for		Na11	
	a strategic point for a military base.			
2	Carnegie', Williams-Narrogin Rd (north), start of John	1872	Na12	
	Forrest's survey up the Williams River.			
2	The Bridge, Graham Rd.		Na13	
2	Minabbie' at Kunderning Pool.	1908	Nal	
2	Dumberning Springs, The Steven's family obtained a	1870	Na3	
	tillage lease of the freshwater springs here.			

Historical sites (contd)

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
1	Cooraminning, Surveyor General J.S. Roe travelled	1835		
	through here from the Tone River.			
	Torbling Spring, originally an Aboriginal watering hole,	1900	Na2	
	Graham family established one of the earliest dairies here.			
2	Museum, former School then Courthouse, Earl St.	1894	Na5	NTWA, AHC
2	Former St Peter's Church, Earl St.	1925	Na5	NTWA
2	Mardoc Building, Federal St Narrogin.		Na5	AHC
6	Arthur River Wetland Complex, 5000 ha, 30 km east of			AHC
	Narrogin.			
6	Dryandra Forest area, 25 000 ha, 18 km north west of			AHC
	Narrogin.			

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3.2.16 Northam

The Shire of Northam is located approximately 60 km north east of Perth, (to the Shire boundary, 100 km to the Town), and covers an area of 1 419 km². The population of the Shire and Town is approximately 10 000 and includes the localities of Wundowie, Bakers Hill, Grass Valley, Spencers Brook and Clackline (WAMA 1993). Only the western part of the Shire, encompassing Wooroloo Brook is located within the study region. Other watercourses within the Shire boundary are the Avon and Mortlock Rivers and a number of tributaries.

History

Ensign Dale discovered open grassy land to the east of the Darling Range during an expedition in 1830 and stirred considerable interest within the colony as settlers struggled to make the land around Perth productive. The townsite of Northam was selected when Governor Stirling assessed the area and by 1830 nearly a quarter of a million acres had been granted along the Avon Valley. However, actual settlement was slow to take place and there was little activity on the townsite until the 1850's (HCWA 1988r).

Next to a safe winter ford across the Avon (16 kg from Northam), a community developed on what we known as the Katrine lease in the 1850's to service surrounding properties and travellers. However, a Northam grew and better access was provided by the bridge upstream, the Katrine settlement was bypassed by traffic (HCWA 1988r).

The Avon and Mortlock Rivers played an important role in the development of Northam. The wide flats of rical alluvial soil and well shaped deep pools encouraged broad agricultural and pastoral mix renowned for it quality. Proximity to the water has exacted a price with occasional severe floods which have been disastrous stock and buildings (HCWA 1988r).

Northam's transformation from a relatively small agricultural village to a substantial town occurred during the premiership of Sir John Forrest in the 1890's. December 1891, in preference to York and Beverle Northam was chosen as the point of departure for the railway to the Goldfields, assuring its development in the service centre for the vast wheatbelt region (HCW 1988r).

Land	Historic site and/or water use	Date	Мар	Source of information
use			ref	Source of information
1	Ensign Dale discovers open grassy land during an	1830		HCWA (1988r)
i	expedition beyond the Darling Range.			(13001)
2	First land grants.	1830		
2	Northam and Katrine communities develop.	1850's		
2	Flour Mill, Gairdiner St next to Avon Bridge.	1867	No1	
2	Avon Bridge Hotel.	1860's	No1	
7	Severe flooding of the Avon River	1862		
2	Northam's first police station site, cnr Katrine &	1852	No2	
	Irishtown Rds			
2	Lockyer's Flour Mill, Katrine Rd.	1857	No3	
2	Hampton Vineyard, Katrine Rd (rising salt content	1920's	No3	
	gradually destroyed it).		1.103	
2	Newleyine Homestead, Katrine Rd.	1837	No4	
2	Katrine Homestead, Katrine Rd.	1850's	No5	
2	St Saviours Anglican Church, Katrine Rd.	1862	No5	
6	Viveash Reserve, Northam-Toodyay Rd.	1981	No5	
2	Katrine Causeway, at Viveash Reserve.	1867	1103	
2	Glenfield, Katrine Rd. Stone ruin of a home.	1860	No5	
2	Morgan's Winery, Katrine Rd, opposite Glenfield.	1000	No5	
2	Bardeen, Katrine Rd, main homestead built in the 1850's,	1850's	1103	
	next to a permanent spring.	10000		
2	Avon Bridge Hotel, Fitzgerald St.	1860	No1	NTWA, AHC
2	"Egoline" Homestead, Northam - Toodyay Rd.	1851	1101	NTWA, AHC
2	John Morrel's grave, Quelquelling Rd.	1929	No6	NTWA, AHC, HCWA
2	Warranine Homestead Group, Spenser's Brook Rd,	1845	1100	NTWA, AHC
	Clackline.	10.0		IVI WA, AIIC
2	Bardeen Homestead & Farm group, Dunbarton Rd,	1858		NTWA
}	Irishtown.	1.000		
2	Buckland Homestead and Farm Group, Irishtown Rd	1836		NTWA
	Katrine.	1050		MIWA
2	Katrine Homestead Group, Katrine Rd Katrine.	1860	No5	NTWA, AHC
2	Former Seabrook Battery site, 0.8 km south east of	1896	1103	NTWA, AHC
1	Northam.	1070		WA, AIIC
2	Spencers Brook Tavern, Thomas St Spencers Brook.	1884		NTWA, AHC
2	St Saviours Church, Katrine.	1004	No5	AHC
	Muresk, AHC DB No 009974, Northam.		1105	AHC
2	Morby Farm, York Rd Northam.			AHC
	Clackline Nature Reserve, 459 ha, 1 km north of			AHC
- 10	Clackline.			AIIC
	Blackboy Gully Natural Area, 5 km east southeast of			AHC
	Clackline.			ALIC
2 1	Noondeening Hill, 8 km west of Northam.			AHC
	V			AIIC

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3.2.17 Pingelly

The Shire of Pingelly is located 158 km east southeast of Perth and covers an area of 1223 km² of which only a southern portion encompassing the Hotham River and its tributaries are within the study region. The population is approximately 1 213 and the Shire includes the locality of Moorumbine as well as Pingelly. Farming forms the mainstay of the Shire with crop, sheep, cattle, pig, ostrich, emu and yabby farming (WAMA 1993).

History

Moorumbine, 10 km east of Pingelly was the first area to be settled when Lewis John Bayley took up land in 1846. He was granted 4000 acres for grazing sheep near a spring which Aborigines called 'Nalyaring' and Bayley was soon followed by other pastoralists (HCWA 1988o).

The area was surveyed by Francis Gregory in 1856 and again in 1858 by Richard Austin. A permanent settlement was established around 1860 and called Moorumbine after the Aboriginal name of another nearby spring. Following rumours of the imminent construction of the Beverley-Albany Railway, the Moorumbine townsite was gazetted in April 1884. At this time Moorumbine was connected to Beverley by a rough dirt track known as the Old Beverley Road. The town had several buildings by this stage and a stone well (HCWA 1988o).

Early settlers found the land difficult to clear becaus of the heavy timber and supplemented their incomes wit sandalwood and mallet bark. Aborigines sometime assisted them by directing them to the whereabouts of plentiful supplies of sandalwood trees and water (HCWA 1988o).

The Great Southern Railway which was completed in 1889, stretched 391 km from Beverley to the port of Albany and was instrumental in opening up land in the south-west. It passed 10 km west of Moorumbine and small settlement was established at the railway siding located there. It was called 'Pingegully' after another Aboriginal name 'Pingeculling' meaning 'small gully of water', but became known as Pingelly (HCWA 1988o).

Pingelly was gazetted in 1898 and its growth ar development marked the beginning of Moorumbine gradual decline. Pingelly attracted many settlers from the Goldfields looking for a more secure means of income are by the early 1900's Moorumbine's influence had begun wane. The Pingelly-Moorumbine Road Board offices we built at Pingelly in 1909 and just a few years lat Moorumbine was deleted from the title and Pingelly tow became the centre of the district. (HCWA 1988o).

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	William's and Marshall find water supplies etc.	1900-05	Pi1	Mr A.G. Marshall
2	Sink wells and soaks, clear land erect buildings.			45 Queen St
				PINGELLY 6308
3	Underground water and permanent pools in river,		Pi2	Ph: (098) 871 320
	freshwater soaks and water tanks.			` ′
4	Sunk dam for water catchment, small amount of	1920's		
	irrigation.			
5	Many areas in the west Pingelly, Hotham River area have	1940-	Pi3	
	been drained to avoid flooding and salt intrusion.	1950		
6	All areas along the Hotham River are classed as reserved			
	waterways			
7	Hotham River in the early days was classed as good			
	quality stock water with good supplies of freshwater fish,			
	now are few.			
3	A.J. Marshall divined west Pingelly area and located			
	underground water.			
8	Good quality Wandoo, Jam and Sheoak timber, also	1940+		
	Sandalwood trees. (Wandoo railway sleepers, Jam fence			
	posts).			
9	Black duck, Wood duck, Mountain duck and Teal			
	abounded along the river and were food supplies for early			
	settlers and into later years.			
3	Well, 73 ft deep on A.J. Marshall's land. Supplied many	1905		
	farmers during the 1914 drought year.	1903		
3	Pools along the Hotham River include -			
	- Pumphries, developed and used as a sports area for			
	many years.			
	- Boxies, used as a recreational fishing area			
	- Marterdene Pool			
	- Codjatotine Pool			
	- Noombling Pool			
	- Redgum Pool			
	- Dumbitmooney Pool			
	- Dwarda Pool			
3	Bridges used by early settlers of the area include-			
ĺ	- Pumphries Bridge		Pi2	
	- Noombling Bridge			
	- Dwarda Bridge			
	Old wagon crossing south of Noombling Bridge			
7	Many streams ran salt and many fresh.			

Historical sites (contd)

T d	Historic site and/or water use	Date	Map	Source of information
Land	Historic site and/or water use	Date	ref	
use	a 1 1 1 5 1 - 41 - 41 - 41 of river and is still a		Pi2	
3	Soak put down by first settlers just off river and is still a		1 12	
	good supply today.	1000	Pi4	
3	Freshwater Well at Pingelly, neglected for many years but	1880	P14	
	now used to irrigate surrounding lawn area.			77.0771 (1000.)
1	Moorambine surveyed by Francis Thomas Gregory.	1856		HCWA (1988o)
2	Pingelly town gazetted .	1898		
2	Lewis John Bailey takes up land in Moorambine area at	1846		
	Nalyaring Spring.			
2	Moorambine settlement established near spring later	1860		
	called Moorambine Spring. (Moorambine Rd)			
2	Town Hall, Parade St Pingelly.	1907	Pi5	NTWA, AHC
2	CBA Bank, 12 Parade St Pingelly.	1911	Pi5	NTWA, AHC
2	Pingelly Post Office, Parade St Pingelly.	1889	Pi5	NTWA
2	St Patrick's Church, 10 km east of Pingelly at	1873		NTWA, AHC
	Mourambine.			
2	Staunton Springs (Bostock's Farm), Old York/Albany	1856		NTWA, AHC
	Rd, Pumphrey.	-		
6	Tutanning Nature Reserve, 2087 ha, 19 km east of			AHC
	Pingelly.			

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3.2.18 Serpentine-Jarrahdale

The Shire of Serpentine-Jarrahdale is located 45 km south of Perth and covers an area of 905 km². It includes the localities of Mundijong, Serpentine, Jarrahdale, Byford, Mardella, Cardup, Keysbrook, Oakford and Whitby and has a population of about 9000. Local industry includes mixed farming, market gardening, orchards, timber, bauxite mining and quarrying (WAMA 1993). Important water sources within the Shire are the Serpentine River, tributaries, reservoir and pipehead dam, and the Wungong Reservoir.

History

Captain Mark Currie discovered the Serpentine River in July 1829 while on an inland exploration looking for watercourses. He had sailed to the southern end of Cockburn sound on the HMS Challenger and led a party inland where he came across the river. Several other exploration parties travelled through the area in the following years such as Bannister and Dale in December 1830, J.S. Roe in 1833 and Hillman in 1835 (Coy 1987).

First settlers to the area included Peel and his Serpentine Farm, the Armstrong's in the 1840's, and a few years later the Cowcher's and the Hall's (Coy 1987). Henry Mead was one of the earliest settlers to the Serpentine-Jarrahdale district when he purchased 320 acres of land in 1848 which became known as the Whitby Falls Estate. A Coach house was built near here as a staging post on the Perth-Bunbury road and is known as the Whitby Falls Coach house, however much of the old estate was purchased by the crown in the late 1800's and Mead's original two storey home demolished in 1971 (HCWA 1988i).

In 1871, 250 000 acres of Jarrah forest was leased to the Rockingham Jarrah Company, promoted by Thomas and William Wanliss, James Service, and Peter Lalor. In 1872, the company built a sawmill on a site which became known as 'Jarrahdale', a jetty at the Rockingham Port and a railway linking the two. This railway, one of the earliest in the district, played a vital role in the districts development. The town of Jarrahdale was the largest timber town in WA following its foundation in 1872. The timber industry boomed and the number of mills increased to six until competition and a decline in profitability saw rationalisation in the early 1900's and more closures during the 1930's depression (HCWA 1988i).

The town of Mundijong was known as Jarrahdale Junction for many years because the Perth-Bunbury line crossed the timber line here and during the 1920's the State's second largest timber stacking yard was located there (HCWA 1988i).

Mining has also played a role in the development of the district. Near the gates of Yarrabah, along the banks of the winter creek Mundijong Brook, is the site of one of the state's earliest mining ventures. There are claims of this silver/lead mine being mined as early as 1840 but it was not until 1869 that mining began in earnest. This was one of a series of general leases along this section of the scarp. The mine was worked spasmodically until 1908-1909 when the main shaft was 86 ft deep. Buildings and equipment were removed a few years later and the shafts filled in 1976. The discovery of rich deposits of bauxite renewed interest in mining and in 1963 the first load was railed to Kwinana along Alcoa's new railway line (HCWA 1988i).

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Early silver/lead mining venture on the banks of the winter	1869		HCWA (1988i)
	creek, Mundijong Brook near the gates of 'Yarrabah'.			
2	Railway crossing over Medulla Brook.	1872		
1	Jarrahdale Town founded	1872		Serpentine/
2	Turner Cottage, Serpentine Bridge.			Jarrahdale
3	Serpentine Dam.			Tourist
3	Serpentine Pipehead Dam			Committee
2	Gooralong Brook, off Jarrahdale Rd.			
2	Whitby Falls Coach house.	1850's	Sj1	
2	Mundilup, Balmoral Rd (Reconstructed sawpit).			
2	Gooralong Creek- Flourmill on creek.	İ		Jan Starr
3	Whitby Falls water supply.			President
9	First release of trout at Whitby falls area.			Serpentine-Jarrahdale
				Heritage Society
				Jarrahdale Rd
7	Could drink water in Birreger Drain post war.			MUNDIJONG 6202
7	Could drink Medulla 1965.			Ph: 525 5434 wk
2	Serpentine Townsite Conservation Area, historic part of			NTWA
	Serpentine including grounds.			
2	"Carralong", Junction of Serpentine River & Carralong Brook.	1850-60		NTWA, HCWA
2	Old Post Office, Jarrahdale Rd, Jarrahdale.	1881	Sj2	NTWA
2	"Lowlands", Pt Loc 16 Mardella.	1845		NTWA, AHC
2	Lefroy's Cottage, Lots 26 & 27 Gordon Rd, Serpentine.	1864	Sj2	NTWA
2	Turner Cottage, Southwest Hwy Serpentine.		Sj3	NTWA, AHC
6	Brickwood Bushland, 62 ha, 1 km south of Byford.			AHC
6	Cardup Bushland, 86 ha, 3 km south of Byford.			AHC
6	Jarrahdale Railway Cutting, 7 ha, 5 km north of Jarrahdale.			AHC
6	Monadnocke Reserve, 1560 ha, 18 km east of Jarrahdale.		ŀ	AHC
6	Serpentine Reserve, 5910 ha, 0.5 km north of Jarrahdale.		100	AHC
6	Banksia Rd Nature Reserve No 28167, 33 ha, 10 km west			AHC
	northwest of Mundijong.			
6	Reserve 23012, 28 ha, 2 km south east of Mundijong.			AHC
6	Karnet Nature Reserve, 302 ha, 3 km south east of Serpentine.			AHC
6	Lowlands Property, 600 ha, 9 km west northwest of			AHC
	Serpentine.			
6	Serpentine national park, 635 ha, 2 km east of Serpentine.			AHC

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3.2.19 Toodyay

The Shire of Toodyay is located 85 km north east of Perth and covers an area of 1 683 km² of which only the western half is within the study region. It includes the localities of Coondle, Culham, West Toodyay, Wattening, Nunile, Dumbarton, Hoddy Well, Dewars Pool, Julimar, Morangup, Majestic Heights and Bejoording and has a population of around 1200. Local industry consists of farming (sheep, cattle and wheat), vine growing, bee keeping and tourism (WAMA 1993). The Malkup and Spice Brooks and the Avon River are within the Shire boundaries.

History

The area of Toodyay was first explored in October 1831 by Ensign Dale however land grants were not made in the area until 1836 when Governor Stirling announced his intention to finalise outstanding claims for land grants. In May 1836, settlers James Drummond Snr, Captain Francis Whitfield and Alexander Anderson set out to blaze a trail to land they had been granted sight unseen. This route was to be more direct then the one via York and Northam and facilitated in opening up the area. The name Toodyay comes from an Aboriginal word 'Duigee' meaning 'place of plenty' and in 1836 townsites were declared at Toodyay and Bejoording (HCWA 1988dd).

The trail was hazardous and it was not until the 1850 with the use of convict labour that improvements and deviation around Jimperding Hill reduced travelling tin and resulted in easier access. Stopping places where free water was available were vital to the teamsters where travelled this route and Morangup Spring was the moisolated of these (HCWA 1988dd).

Severe floods in 1847, 1849 and again in 1859 resulted in a new town being gazetted two miles upstream from the little hamlet of Toodyay and it was called Newcastle Between 1880 and the 1900's the area was dotted with orchards and vineyards producing fruit to be sent to the Goldfields. Then in 1911, Newcastle's name was changed to Toodyay (HCWA 1988dd).

In the 1900's, settlement had increased in the Jimperding area and a school was built, (now marked by lemon scented gum) near the banks of the Avon and footbridge built across the river for easier access to the school (HCWA 1988dd).

Gold was noted in the area in 1852 and the are became a hive of activity in the Great Depression who over 100 prospectors camped in the valley. Alluvial go was worked in the Yinniding Creek with some 231 ounce obtained between 1931 and 1937. In 1934, the lode-quar leaders in the schist were discovered and mined unt 1950. Mica schist is still extracted from the area are various quarries exist along Morangup Rd (HCW 1988dd).

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
1	Ensign Dale leads exploration party.	1831		HCWA
2	First land grants.	1836		(1988dd)
3	Morangup Spring.	1850's	T1	
2	Yinniding Creek, prospectors camp and gold mining.	1930's	T2	
2	Jimperding Pool & Nolan's Rock, also site of Chauncy camp for		Т3	
	two months on survey.			
2	School & footbridge site, Old Toodyay.	1900	T4	
7	Floods threaten 'Old Toodyay' resulting in new town declared	1861	T4	
	two miles upstream.			
2	Site of Samuel Ferguson's cottage, West Toodyay.	1852	T4	
2	The Royal Oak Inn, West Toodyay, site of sheep wash pool.		T4	
2	The Highland Laddie, West Toodyay, site of sheep wash pool.	1850	T4	
2	Military Barracks, West Toodyay.	1842	T4	
2	Catholic Chapel site, West Toodyay.	1859	T4	
2	Newcastle recreation grounds and cottage, West Toodyay.	1886	T4	
2	"Bejoording" Group, Toodyay/Bolgart Rd, 6 km north of	1859	T5	NTWA, AHC
	Culham in the vicinity of Bejoording.			
2	"Culham" House, Toodyay/Bolgart Rd, 16 km north of Toodyay	1870	Т6	NTWA, AHC
	in the Culham area.			
2	St Phillip's Church, Culham.	1895	Т7	NTWA
2	Toodyay Historic Town, comprising the area of the town extant	•	Т8	NTWA
	in 1900			
2	"Hawthornden", 0.5 km north of Toodyay.	1866	Т8	NTWA, AHC
2	"Glen Avon", Avon Loc X, Toodyay.	1859	Т9	NTWA
2	Newgain Granary, 4 km north of Irishtown Rd/Northam Rd	1860	T10	NTWA, AHC
	Junction.			
2	Bardeen Homestead, Dunbarton Rd Irishtown.		T11	AHC
2	Windmill Hill Railway Cutting, AHC DB No 018827			AHC
6	Reserve No 22096, 386 ha, 8 km west of Culham.			АНС
6	Avon Valley National Park, 4430 ha, 19 km west of Toodyay.			AHC
6	Beelaring Spring reserve, 40 ha, 17 km south west of Toodyay.			AHC
6	Goonaring Spring Nature reserve, 53 ha, 20 km south west of			AHC
	Toodyay.			
6	Julimar State forest 27 798 ha, 14 km north west of Toodyay.			AHC
6	Moondyne Nature Reserve, 1991 ha, 21 km west of Toodyay.			AHC
	Morangup nature reserve, 900 ha, 20 km south west of Toodyay.			AHC
6	Avon Valley National Park Extension (M16), 5114 ha, 20 km			AHC
1	south west of Toodyay			

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3.2.20 Victoria Plains

The Shire of Victoria Plains is located 140 km north northeast of Perth and covers an area of 2 563 km², although only a small portion of the south west of the Shire lies within the study region. The Shire has a population of about 1 200 and includes the localities of Calingiri, Bolgart, Yerecoin, Piawaning, New Norcia, Mogumber and Gillingarra. Local industry consists of wheat, oats, lupin and barley cropping and sheep, cattle and pig farming (WAMA 1993). The Moore River and Moore River East, Bolgart Brook and tributaries to the Brockman River flow through the Shire.

History

The history of the Victoria Plains district began in 1836 with the discovery of the Moore River by George Fletcher Moore. Captain J. Scully and the first government botanist James Drummond explored and named the Victoria Plains area in 1841. The Victoria Plains Road Board was one of the original 18 local government authorities to be established and was created in 1871 (WAMA 1993).

Scully met Bishop Brady upon his arrival in Perth, five years after exploring and naming the Victoria Plains district and convinced him that the region, with its numerous Aborigines, was the ideal location for a central mission. In 1846, a band of Benedictine Monks headed by Salvado and Serra made camp and said mass at Noondagoonda Pool on the Moore River 8 km north of the present day site of New Norcia on March 1st 1846. It was discovered after some time that they were located on the leases of the Macphersons who were James Scully's shepherds and they moved to the present site (HCWA 1988q).

During the Missions expansion in the 1880's more than 200 stonelined wells were sunk in the Victoria Plains and surrounding districts as Salvado sought to increase his holdings to assist Aborigines to establish themselves as farmers. Two of these are the 'Old Well' and 'Bishop's Well' and on the river floodgates were created. The monks continue to farm extensively today and hold the largest area of uncleared bushland in the Shire (HCWA 1988q). The area is one of the State's leading farming and grazing areas (WAMA 1993).

Land	Historic site and/or water use	Date	Map	Source of information
use			ref	
2	Benedictine monks arrive to establish a mission.	1846		HCWA (1988q)
	Noondagoonda Pool on Moore River, site of original camp of	1846		
	Benedictine monks.			
1	First exploration by Captain James Scully and botanist James	1841		
	Drummond, naming Victoria Plains area.			
3	Old Well, site 11 HT brochure. One of 200 sunk in the	1880's	Vp1	
	Victoria Plains and surrounding districts during the missions			
	expansion in the 1880's.			
2	Old Floodgates on Moore River, site 12 HT brochure.		Vp1	
3	Bishops Well, site 13 HT brochure.	1880's?	Vpl	
2	Bishop Torres Beehouse, site 14 HT brochure.	1930's	Vp1	
7	Salt from Moore River gradually destroyed the orchard and			
	consequently the apiary, second half of this century.			
7	Floods damage beehouse structure.	1960		
2	The Washpool' at Calingiri, used by early farmers for sheep		Vp2	Tourist Information
	washing before shearing.			Centre
2	Mogumber Bridge, Mogumber. One of the highest timber and		Vp3	Shire of Victoria
	concrete bridges in WA standing 12 m above the riverbed			Plains
				PO Box 21
2	Bullgert Springs, Bolgart, area settled by Sculley.	1840's	Vp4	CALINGIRI 6569
3	Wyening Spring. Also used as recreation and gathering place	1843	Vp5	Ph: (096) 287 004
	after Sunday devotions at the mission and water was carted in			
	the drought years of 1908, 1911, 1914			
2	Wyening Cottage.	1880	Vp5	
2	Wyening Winery.	1917	Vp5	
2	Clearing along the creek after Bishop Salvado took up	1858		
	residence at New Norcia.			
7	Creek is now salty around New Norcia.			
2	Wyening Mission House, 13 km north of Bolgart, Wyening.	1892	Vp5	NTWA, AHC
2	Former Benedictine Winery, Wyening.	1892	Vp5	NTWA
2	New Norcia Conservation Area, Gt Northern Hwy, New	1850+		NTWA, AHC
	Norcia.			

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3.2.21 Wandering

The Shire of Wandering is located 120 km south east of Perth and covers an area of 1955 km², which mostly lies within the study region. It includes the localities of Dwarda, Pumphrey's Bridge, Codjatotine, Wandering, North Bannister and Bannister and has a population of around 480. Local industry consists of farming, vineyards, sawmilling, earthmoving and heavy transport (WAMA 1993). The Hotham, Serpentine and Canning Rivers and their tributaries are located within the Shire.

History

There is little information available on the first exploration of Wandering Shire but it is possible assistant surveyor A.C. Gregory passed through the western area of Wandering in 1845. Other exploration parties travelling from Pinjarra to Albany may also have travelled through the area (Schorer 1974).

In 1858, George Stedman Watts and his two sons tracked their horses which had strayed from their overnight camp for over 20 miles. The tracks followed two streams (verified years later as the Bannister and Wandering Brooks) to a spring of freshwater on the banks of the Wandering Brook approximately 5 miles from where it enters the Hotham. The area had thick green pastures, a good water supply and wild game and George Watts stood at the spring and declared "This is a very potential track of land." and coined the name Wandering. He returned in 1860 and in 1861 was granted freehold. He built his house after selecting a small area around the spring which was to be known as Horse Well Spring (Schorer 1974).

Other springs became settling points and the Gnowing Spring, 10.5 miles from Wandering on the Halfway House to Wandering track, was a popular camping and stopping point. A 'beautiful freshwater spring' located at the 'W Tree' was a well known camping spot for the sandalwood carters which travelled to Perth in teams after assembling at the Williams and Kojonup. McAlinden built an Inn nearby (Schorer 1974).

As the area was settled, each holding sunk wells for their own use and there was not any significant central watering point. The well on the property 'Grassdale' was sunk about 1860 and is still in use, however all the other wells along the Wandering Brook have long since gone salty (G.G. Watts *pers comm*).

The Wandering Roads Board was constituted in 1874 and a town centre established with a hotel built in 1877 and a hall in 1896. In 1899, the Great Southern Railway reached Pingelly and Narrogin and supplies could now be obtained at Pingelly. In 1905, Pumphrey's Bridge was built. Settlement slowly continued with people taking up farm holdings within the district. Leedman's Pool in the Hotham was used as a sheep wash and the dam on 'Grassdale', George Watts' property was a popular recreational spot as well as being used for sheep dipping and stock watering (Schorer 1974).

In 1944, 10 miles north of Wandering, a native reserve was established to house and educated Aboriginal children (Schorer 1974).

Land	Location and type of water used	Date	Map ref	Source of information
use				
3	Each early holding sunk their own wells, no significant			G.G. Watts
	central watering point.			"Grassdale"
3	Well on Mr Watts property, sunk about 1860, still in use,	1860		PO Box 3
	however all the other wells along the Wandering Brook			WANDERING 6308
	have long since gone salty.			Ph: (098) 841 153
1	A.C. Gregory possibly passed through Wandering.	1845		Schorer (1974)
2	Horse Well, site of first settlement.	1861		
3	Gnowing Springs, 10.5 mile from Wandering was a	1860's+		
	popular camping and stopping point.			
3	Freshwater Spring at the 'W Tree'. Meeting and camping	1980's		
	point for the sandalwood carters.	İ		
2	Pumphrey's Bridge built.	1874	Wd1	
2	Wandering Road Board constituted.	1944		
	Native Reserve established, 10 miles north of Wandering.			
2	Old Flour Mill, North Wandering Rd Mill Farm.	1877-78	Wd2	NTWA, AHC
6	Duncan Management Priority Area, 9900 ha, 17 km north			AHC
	east of Bannister.			
6	Wandering Management Priority Area, 4300 ha, 7 km			AHC
	west of Wandering.			

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3.2.22 Waroona

The Waroona Shire is located 108 km south of Perth and covers an area of 835 km² that stretches from the Indian Ocean in the west, across irrigated flatlands and inland to the Darling ranges and its jarrah forests. It includes the townsites of Waroona, Hamel, Preston Beach and Lake Clifton and has a population of about 3226. Local industry includes farming (beef, sheep dairy and vegetable), forestry, Mining (mineral sands and bauxite) and refining. (WAMA 1993). Important water sources within the Shire include the Waroona, Drakesbrook and Samson Brook Dams. Other important water courses include the Harvey River, Murray River, Waroona Drain, Logue Brook Drain, and the coastal chain of lakes in the west of the Shire.

History

Captain James Stirling and John Septimus Roe camped on a stream then known as Navarino Stream and later called Drakes Brook during an expedition in 1837. In 1839, John Phillips took up land 8 miles south of the gorge of the Murray River with mention of a considerable waterfall (Snell 1986). George Moore took up the Leschenault location at Lake Clifton in 1844 and William Drake took up the Murray location in 1847 and thus the Waroona district became known in time as Drakesbrook (Duane 1961).

Land on the coastal plains around 'The Old Coast Road' were first settled mostly as grazing areas. John Fouracre erected a wayside Inn in 1855 on G.F. Moores Wellington location and then in 1871 purchased the Drakesbrook Estate and later built one of the first homesteads away from 'The Old Coast Road'. The land was then immediately opened up and settled, later to become the Drakesbrook township (Duane 1961).

Cattle camps were located at Yalup Brook between 1872-1880 and a homestead was built on Yalup Brook between Hamel and Wagerup by George Jackson in the 1880's. A homestead was established on Lake Clifton by Robert Holmes in 1874 (Duane 1961).

The railway arrived in 1893, bringing more settlers and a timber industry was established in the late 1890's. In 1898, the township had a population of 800, most of whom were employed by the timber industry. McDowells was the first timber company to operate with Millar's Karri & Jarrah Co opening in 1902 which was later to take over McDowells. However only a few years later, the mill was closed with timber sent to Nanga and Yarloop. The timber industry had a small revival in Waroona before the Second World War and a State nursery and pine plantation was planted 3 miles south of the town at the turn of the century (Duane 1961).

Lack of winter drainage was a problem for farmers and in the early 1900's four main drains were constructed, being the Drakesbrook, Waroona, Samson North and Samson South. In 1931, the Waroona Irrigation Scheme was commenced and a dam put across the Drakesbrook River (Duane 1961).

The swamp of Lake Wannup at 'Wannup Farm' was drained in 1880, by a drain over 1 km long, and J. Williamson used it to grow vegetables. During early settlement in the swamps west of the railway line it was common to see boodie rats, red and grey tammars, water rats, bush turkeys, and even the noisy scrub bird (Snell 1986).

Seymor Falls was a showpiece in the 1930's and Steven Falls in Kyabram Rd was also popular. Tunnels found in Yalgorup Park are of a date and time unknown but were possibly constructed in the 1920's (Snell 1986).

Land	Location and type of water used	Date	Map	Source of
use			ref	information
2	Joseph Logue selects land on Logue Brook.	1849		HCWA (1988ff)
2	Town site surveyed near Yaloop Brook on western side of			
ļ	Millar's railway on swampland which was drained to enable			
	building (Yarloop town).			
1	Stirling & Roe camp on Navarino Stream.	1837		Duane (1961)
2	First land grants, John Phillip.	1839		Snell (1986)
2	John Fouracre erects wayside Inn.	1855		
2	Cattle camps on Yalup Brook.	1872-80's		
2	George Jackson builds homestead on Yalup Brook.	1880's		
2	Robert Holmes builds homestead on Lake Clifton.	1874		
2	Railway is opened.	1893		
8	McDowell's Timber Mill established.	1890's	Wr1	
8	Millar's Timber Mill established.	1902	Wr1	
5	Construction of four main drains, Drakesbrook, Waroona,	1900's		
	Samson North and Samson south.			
5	Lake Wannup Swamp drained.	1880's		
2	Seymor Falls and Steven Falls, popular areas of recreation.	1930's		
2	Tunnels in Yalgorup National Park, use and date of			
	construction unknown.			
6	Yalgorup National Park, 11545 ha, 21 km west of Waroona.			AHC
6	Yalgorup National Park Extension, 3700 ha, 20 km west of			AHC
	Waroona.			

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3.2.23 West Arthur

The Shire of West Arthur is located 204 km south west of Perth and covers an area of 2 850 km² of which only the western third is within the study region. It includes the localities of Darkin, Duranilling, Moodiarrup, Bowelling and Arthur River and has a population of around 1 100. Local industry is made up of mixed farming (sheep and cereal grains) and timber. Most of the area is cleared for agriculture however there are significant areas of uncleared land and reserves. The portion of the Shire within the study area that constitutes part of the Wellington Dam catchment consists of a mix of agricultural land, State forest and reserves (WAMA 1993). Rivers within the Shire boundary include the Hillman, Arthur, Beaufort and Collie East with a portion of the Blackwood forming part of the boundary.

History

The first Europeans to explore the West Arthur area were Captain Bannister and his party late in 1830. Other explorations followed and during the 1850's the main Perth to Albany road was built with convict labour. The first settlements in what is now the Shire of West Arthur were developed along this road between the Beaufort and Arthur Rivers. These settlements followed the pastoralists who were granted grazing leases in the area in 1854. The 'Woagin' Homestead was built on the Arthur River in the 1860's (WATIC 1995?).

Over the years Arthur River developed into a thriving centre with many of the town's main buildings constructed in the period 1865-1885. The construction of the Great Southern Railway in 1889 attracted settlement away from the 'Coach Road' to the route of the railway line (WATIC 1995?). Darkan was declared a townsite in 1905. The railway went through Darkan in 1907 and immediately the town began to flourish (HCWA 1988e).

Two connecting railway lines from Collie to the Great Southern line brought a new era of prosperity with Darkan soon becoming a busy centre. During this period other families began pioneering outlying areas of the Shire. Some grazed sheep while others provided services such as the Inn at Tarwonga, trading posts, and stores at Moodiarrup, Arthur River and Boolading (WATIC 1995?).

The Hillman Dam, built in the 1930's , is fed by channels over one mile long that were built by hand and concreted to bring water from Hillman Rock.

Land	Location and type of water used	Date	Map	Source of information
use			ref	
2	First settlement between the Beaufort and Arthur rivers	1850's		HCWA (1988e)
2	Darkan town declared.	1905	ļ	
2	Farming, mostly sheep, some cattle.			
1	Captain Bannister and party.	1830		Tourist
2	Grazing leases granted.	1854		Committee
3	Hillman Dam, includes channels over 1 mile long dug by hand	1930's	Wal	Shire of West Arthur
	and concreted to bring water from Hillman Rock.			Borrows St
2	Lake Towerinning, longtime recreational use.			DARKAN 6392
-				Ph: (097) 361 003
2	Trigwells Bridge, Moodiarup.		Wa2	
2	Gibbs family settled this area	1867		Mr Tom Perry
2	Tom Perry senior	1898		11 Arthur St
2	Development only really started in 1920's			DARKAN
3	First settlers relied on soaks and wells, later dams, rain water			Ph:(097) 361095
	tanks on buildings.			
5	Whittington contours banks used extensively.			
9	Marron and Perch fished until disappearance in 1955/56			
2	Arthur River Group, (Old Mail Coach Staging Post), Albany	1860's	Wa3	NTWA, AHC
	Hwy, Arthur River. Lot 1 excised from Williams Loc 36 and			
	Reserve 21211 (includes two wells).			
2	"Woagin" Outbuilding, Former Old Police Staging Outpost,	1860's	Wa4	NTWA
	Albany Hwy Arthur River, Williams Loc 13903, at 131 mile			
	peg.			
2	Glenorchy Primary School Library, Former Old School,	,	Wa5	NTWA
	Glenorchy South Rd, Moodiarrup			
2	Bowelling Railway Station		Wa6	NTWA

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3.2.24 Williams

The Shire of Williams is located 161 km south east of Perth and covers an area of 2295 km² of which only a small portion around the Hillman River lies outside the study region. Localities within the Shire are Quindanning, Dardadine and Tarwonga and it has a population around 1000. Wool, cattle and grain are the major local industries (WAMA 1993). The Williams, Bingham, Hillman and Crossman Rivers, and Marradong and Bell Brooks are located within its boundaries.

History

The Williams district was first explored by Europeans in 1831, when Captain Thomas Bannister led the first overland expedition from Perth to King George Sound in Albany. Bannister and his party left Perth on December 14th, 1830 and followed several watercourses travelling up the valley of the Canning River, through the area of the upper Bannister River and arrived near Crossing Pool on the Hotham River in late December 1830. He then travelled further south and crossed the Williams River near what is now Boraning Bridge. Although his exact route is not known, his party blazed the trail that became the basis for the Old Sound Road (HCWA 1988ee).

Although no records have been discovered concerning the naming of the river or the area that surrounds it, an 1833 map used the name Williams and showed a projected road to King George Sound from Perth (HCWA 1988ee). Many remains of the road are still in evidence as culverts, tracks and stoned water crossings, the route of which is documented in 'Frowning Fortunes' (Petchell pers comm).

The first settler to the area was Joseph Strelley Harris and his father, who were allocated grants of over 2000 acres within the district in 1836 and were accompanied to the district by a detachment of soldiers. A military station was established at the proposed townsite of Williamsburg from 1837 until 1847 and 'The Old Sound Road', located west of the present Albany Highway, passed through there (HCWA 1988ee).

The need for a road connecting the Port of Albany to Perth, resulted in the present Williams town was chosen as the position where the road was to cross the river. There was a spring two miles south and this was the last fresh water until one mile from Arthur River. The more direct route of the Albany Highway was surveyed and used from the 1850's onwards. Around 1853, the need for a reliable mail service saw the upgrading of the road. With the tendering of the mail service, Williams became an important stop over point for passengers and the changing of coach horses. It is thought that as early as 1851 a structure existed for the purpose of a Wayside Inn, situated a little south of the present hotel (HCWA 1988ee).

The small township that grew up on the Albany side of the Williams River was subject to increasingly frequent floods due to the clearing of the land for intensive farming. The decision was made to relocate the town to the Perth side of the Williams bridge and part of one of the original land grants, by then called the Richmond Estate, was acquired. The new townsite was surveyed in 1905 and the Roads Board organised the laying out of the streets. Except for a few early buildings such as the hotel, the flour mill, 'Millbrook' and the Agricultural Hall, all the buildings in the present townsite were constructed after 1905 (HCWA 1988ee).

,	Location and type of water used	Date	Map	Source of
Land	Location and type of water used	Dute	ref	information
use	D	1830-31	Wil	HCWA (1988ee)
1	Bannister Crossing, Williams - Quindanning Rd.	1895	Wi2	
2	Boraning Bridge, Williams - Quindanning Rd.	1908	Wi3	
2	Boraning Cemetery private 1908, declared public 1944	1870	Wi4	
2	Flour Mill, used until 1914, powered by a steam engine.	1906	Wi5	
2	Josbury Siding, Darkan Rd.	1860	Wi6	
2	Marling Homestead, Williams - Quindanning Rd.	1000	** 10	
2	Marling School, Williams - Quindanning Rd.	1911-50	Wi7	
	Millbrook, Albany Hwy.	1850	Wi4	
2 2	Original Williams River Bridge site (at 'new' bridge).	1855	Wi4	
1	Quindanning Bridge, Williams - Quindanning Rd.	1897	Wi8	
2 2	Quindanning Hotel, Williams - Quindanning Rd.	1900	Wi8	
3	The Old Well, (convict tank), Albany Hwy.	1880	Wi4	
2	Williams Hotel, Albany Hwy.		Wi4	
$\frac{2}{2}$	Williams River Bridge	1850 1911	Wi4	
2	Williamsburgh Townsite and the Old Sound Road		Wi7	
$\frac{2}{2}$	Old Sound Rd route, water crossings include-	1837		Mr Bill Petchell
2	- Warrening Gully crossing, 10 km north of Williams River.			RMB 508
2	- A crossing over a tributary to Warrening Gully, 5 km north			WILLIAMS 6391Ph:
2	of Williams River			(098) 857 032
2	- Williams River crossing, site of military barracks, 1839-47.	1839-47		
2	Color Williams Divor			
2	- Jennamartin Creek, south of the Williams River Wild Horse Creek crossing, tributary to the Hillman River.			
2	- First Hillman River crossing, end of Williams Shire.			
$\frac{2}{2}$	- Second Hillman River crossing, West Arthur Shire.			
$\frac{2}{2}$	- Arthur River crossing (Bennet Bridge).			
2	- Beaufort River crossing.			
2	Harris Farm building, near Williams River.	1836		
3	York Rd Well, road reserve 9 km north of Williams.	1836		
3	Gregory's Well, near Albany Hwy, 6 km south of Williams.	1850		
7	The Williams River had many deep freshwater pools and all of	•]	İ	
'	the river in the Williams Shire was freshwater. In the Narrogin			
	Shire later in the season the river contained brackish and			
	saltwater.			
L	OGICTI GEORGE			

Historical sites (contd)

Land	Location and type of water used	Date	Map	Source of
use			ref	information
3	Pools in the Williams River include-			
2	- Pollards Pool, 3 km west of Williams.			
2	- Strangers pool at Josbury Rd siding.			
2	- The Wash Pool, a stoned wash pool is still evident, 200m			
	from the junction of the Williams River and Starting Creek			
2	Pools that are now filled with sand worked down from land			
	clearing.			
3	- Jennamartin Pool, junction of Williams River &			
	Jennamartin Ck.			
3	- Pumphries Pool.			
2	- Baptising Pool & site of Baptist Church, 4 km east of			
	Quindanning			
2	- Mandiacking Pool, largest in the Williams Shire.			
1	Starting Creek Campsite, (junction of Williams River &			
	Starting Creek), camping parties include-			
1	- Bannister Dec 1830.			
1 1	- Hillman & Harris, Jan & Oct 1835.			
1	- Governor Stirling & Roe, Oct 1835.			
1	- Lt Bunbury, 1836.			
2	Agricultural Hall, Williams town.	1898	Wi4	NTWA, AHC
2	Millbrook, Albany Hwy Williams.	1850	Wi4	AHC

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3.2.25 York

The Shire of York is located 97 km east of Perth and covers an area of 2010 km² of which only the western third encompassing the Helena and Darkin Rivers is within the study region. It includes the localities of Greenhills, York and Kauring and has a population of around 2740. Local industry consists of mixed farming and tourism. York is the oldest inland town in Western Australia (WAMA 1993). The Avon and Mortlock Rivers are also within the Shire boundary.

History

In July and August 1830, Ensign Robert Dale and party discovered the Avon Valley east of the Darling Range and formed an exceedingly favourable impression of the region. On November 12 of that year, the district was declared open for settlement and notice was given that "a town called York will be laid out in situation to Mt Blakewell". There was an immediate rush to select land on either side of the river from Beverley to Northam (HCWA 1988gg).

The first settlers arrived in September 1831 and farms were established in the region. It was not until 1835, when Aborigines began resisting the European settlement, that moves were made to establish a town. Soldiers were sent and constructed a barracks and other buildings and the town of York was established (HCWA 1988gg).

The Avon River was often impassable in winter and it was not until Monger's Bridge was built in 1853 that settlement began to spill over onto the left bank. Aspect and soil here lent themselves to orchards and market gardening and as a result the blocks here are bigger and the buildings more widely spaced than on the right bank (HCWA 1988gg). Convicts were introduced in the 1850's and did much to develop the district and the convict hiring depot was not closed until 1872 (York Tourist Bureau pers comm).

During the 1850's many of the original large properties were subdivided into smaller farms to encourage settlers to the area. Transport and communications were improved with the coming of the telegraph line in 1872 and the railway in 1885 (York Tourist Bureau pers comm).

Prior to the railway, the York Road was part of the route to the goldfields and some 60 000 to 100 000 men passed along this route. York was the last place to gather supplies for the long trek which lay ahead and the farmers, storekeepers and publicans prospered (HCWA 1988h).

Land	Location and type of water used	Date	Map ref	Source of information
2	19 Mile Inn & Woottating Spring, off Gt Southern Hwy, 1 km east of Inkpen Rd.	1850	Y1	HCWA (1988h)
3	Manyuering Spring, track of Gt Southern Hwy, west of	1846	Y2	
3	Wundabiniring Brook. 13 Mile Brook, north of Gt Southern Hwy, 21 km west of			
3	York. St Ronan's Well, Gt Southern Hwy.		Y3	
2	A substantial number of buildings and historical sites are located in the vicinity of the Avon River within York town. The town developed on the banks of the river and as such the townsite has an overall historical value		Y4	HCWA (1988gg)
2	Dardalan Swamp - used for trapping horses. Avon Loc 27716.	1918+		Mr N. Hasen
3 7	White Well - Old Goldfields track. Fresh until Meckering earthquake but now salt.	1890's+	Y5	PO Box 79 YORK 6302 Ph: (096) 411 147
6	Avon Valley Landscape Area, 500 km ² , (27 km north to south, approx 20 km east to west), site of first agricultural settlement in Western Australia.			NTWA
3	St Ronan's Well, 77 km from Perth on north side of Old York Rd, Res 10895	1830's	Y3	NTWA, AHC
2	Korrawilla Homestead Group, Lots 15-20 York/Quarading Rd, Greenhills.	1860		NTWA
2	St Andrew's Church, York/Quarading Rd Greenhills.	1912		NTWA
2	Historic Town of York Conservation Area Declared by National Trust, broadly defined to include the most significant places on the Historic Town of York and extending from Clinton St to the southern boundary of Balladong Farm. including:		Y4	NTWA, AHC
2	- Bland's Brook and Bridge.		Y4	NTWA, AHC
2	- Swing Bridge, Low St.	1906	Y4	NTWA, AHC
2	Balladong Farm Group, bounded by Avon Tce, Redmile Rd & Parker Rd.	1850+	Y4	NTWA, AHC
1	Original Balladong House and Grounds, 7 Redmile Rd.	1890	Y4	NTWA
I	Redmile House and Grounds, Redmile Rd.	1853	Y4	NTWA, AHC
i i	House, 22 Redmile Rd.	1890	Y4	NTWA, AHC
	"Clementine" House, 13 Redmile Rd.	1890		NTWA, AHC
	Avon Valley Landscape Area, AHC DB No 018719			AHC
	Bridge House inc Gardens, Redmile Rd.			AHC
6	Talbot Block, 7500 ha, 24 km west southwest of York.			AHC

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4. CONCLUSIONS

4.1 Conclusions

Water is essential for life and European settlers quickly realised that Western Australia is a profoundly dry landscape. Therefore the settlement of the State is tied to the development of reliable water resources. Indeed without schemes such as the Goldfields pipeline, the gold around Kalgoorlie would have been very difficult to mine. Historically, governments (local and state) were comparatively slow to adequately protect human health. As a result, sewage contamination of groundwater in Perth and Fremantle was responsible for numerous deaths from typhoid. This lack of political will can be seen in the early contamination of Victoria reservoir only a few years after its completion. Perth, is indeed fortunate that through sensible political decisions and good fortune the majority of its water supplies have been protected from development (eg. dam catchments and groundwater mounds). This has allowed good quality water to be supplied to the populace with little treatment and has preserved large areas of native vegetation. It would be a waste if this advantage was lost through unnecessary developments on these resources, such as housing development on the Jandakot Mound.

Development has severely impacted on the environment, with numerous wetlands, streams and rivers being modified, filled or drained. Unrestrained catchment clearing has also resulted in flooding (ie. of Collie) and secondary salinization of many streams and rivers. A positive note is the publication of a series of detailed scientific reports on a variety of wetland issues by the Water Authority and Department of Environmental Protection. The first volume (see 1994 in the Timeline) of the series is written for managers. At the media launch of the first volume the then State Minister for the Environment stated that the degradation of Perth's wetlands was the result of ignorance and that the publishing of this book should rectified that problem. Let's hope he was right.

4.2 Future Research Requirements

This study was conducted over a limited time frame and so it has been impossible to provide a complete listing of all historical areas within the study region. It is anticipated that this report will provide a guide to most of the major areas of historical importance to water. The references provided will allow information on any specific areas covered only briefly to be pursued. The following recommendations are made with regards to future research.

- There is a wealth of oral history in the community and historical societies, it is recommended that this be documented before it is lost. The benefits of doing this are two-fold, for historical analysis and for environmental research where it provides a baseline for observed changes.
- This study relied on published information, given more time it would be useful to return to primary sources to check dates and other information.

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This list covers only the references that have been used in the text and consequently omits some of the references given in the individual bibliographies

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6. APPENDICES

6.1 Appendix A

The following were contacted during the course of the study and have not been cited within the report. They are all thanked for their help and involvement.

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Calingiri Tourist Information Centre

Ms Ann Chapple

Chittering Tourist Promotion Centre

Ms Margaret Cockman

Collie Tourist Centre Ms Arlene Crane

Ms Caroline Crundall Mrs Mary Davies

Ms Hazel Dewar Dr Rica Erikson

Miss B. & M. Evans Mr Eric. E. Fairs Mr Leslie Greenham Mr Frank Greenslade Mrs M.J. Hammersley

Mrs Grace Hardie Harvey Tourist Centre

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6.1 Appendix A (contd)

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50 Tweedale Rd, Attadale, WA 6156

43 Kent St, Rockingham, WA 6168

Halcyon Hill, Lot 4 Roland Rd, Gidgegannup, WA 6083

Mandurah Historical Society, PO Box 199, Mandurah, WA 6210

Murray Tourist Centre, PO Box 277, Pinjarra, WA 6208

Belmont Historical Society, 19 Ullapool Rd, Applecross, WA

6153

President, Serpentine-Jarrahdale Heritage Society, Jarrahdale Rd,

Mundijong, WA 6202

South Perth Heritage House, 11 Mill Pt Rd, South Perth, WA

6151

PO Box 74, Brunswick Junction, WA 6224

"Grassdale", PO Box 3, Wandering, WA 6308

Shire Of West Arthur, Borrows St, Darkan, WA 6392

Curator, Narrogin Museum, PO Box 141, Narrogin, WA 6312

6.2 Appendix B

Codes used on all maps

			26.	Mandurah	Ma
1.	Armadale	Α	27.	Melville	Me
2.	Bassendean	Bs	28.	Mosman Park	Мо
3.	Bayswater	Ba	29.	Mundaring	Mu
4.	Belmont	Be	30.	Murray	Му
5.	Beverley	Be	31.	Narrogin	Na
6.	Boddington	Bo	32.	Nedlands	Ne
7.	Boyup Brook	Bb	33.	Northam	No
8.	Bunbury	Bu	34.	Peppermint Grove	Pg
9.	Canning	Cn	35.	Perth	P
10.	Capel	Ca	36.	Pingelly	Pi
11.	Chittering	Ch	37.	Rockingham	R
12.	Claremont	Cl	38.	Serpentine-Jarrahdale	Sj
13.	Cockburn	Cb	39.	South Perth	Sp
14.	Collie	Co	40.	Stirling	St
15.	Cottesloe	Ct	41.	Subiaco	Su
16.	Cuballing	Cu	42.	Swan	Sw
17.	Dardanup	Da	43.	Toodyay	T
18.	Donnybrook-Balingup	Db	44.	Victoria Plains	Vp
19.	East Fremantle	Ef	45.	Wandering	Wď
20.	Fremantle	F	46.	Wanneroo	Wn
21.	Gingin	Gg	47.	Waroona	Wr
22.	Gosnells	Go	48.	West Arthur	Wa
23.	Harvey	Н	49.	Williams	Wi
24.	Kalamunda	Ka	50.	York	Y
25.	Kwinana	Kw	50.	I OIR	

6.3 Appendix C

The questionnaire that was sent to historical societies.

NAME:			
ADDRESS			
			Code:
TELEPHONE	Home:	Work:	

HOW TO DO THE QUESTIONNAIRE...

- We need your name, address and telephone number;
- Please fill in the location you are telling us about;
- Fill in any details you have on the form;
- Mark the location on the attached map with the corresponding number & letter, like this: ①1A
- Any useful publications?
- Do you have any publications or information for sale or to give away?
- Please let us know any information you have on names and costs that will enable us to follow up;
- Please return the questionnaire and map to us in the enclosed envelope
- We will acknowledge your contribution and let you know about the final report.

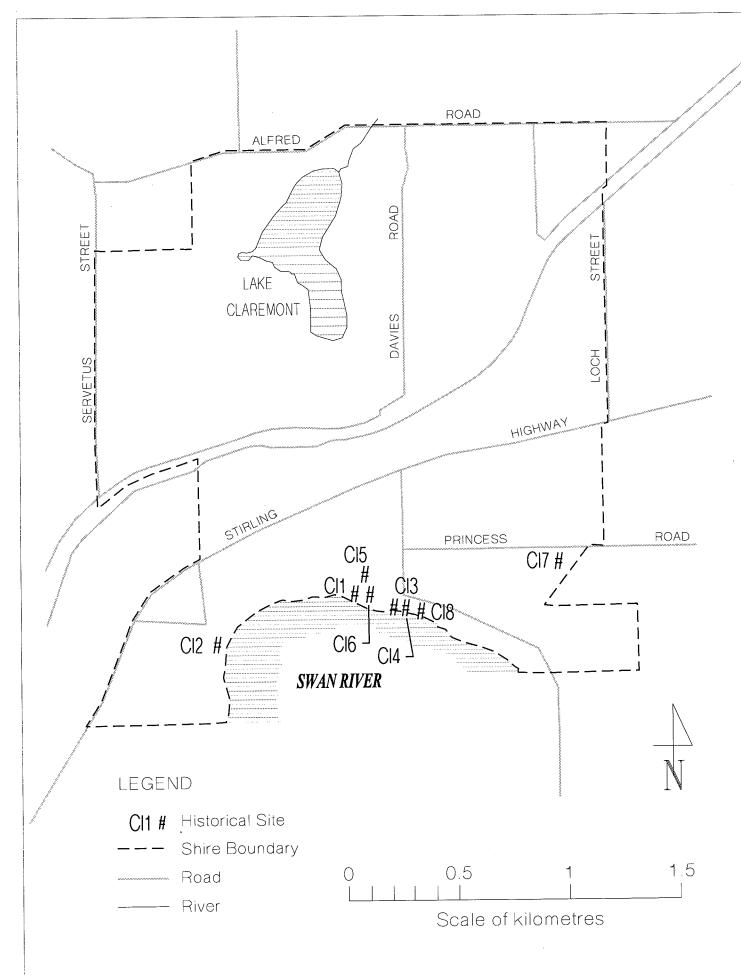
Questionnaire example:

LOCATION: Augusta						
Land use activity:	Location and type of water used:	Map no.	Years			
First European exploration:	A. Ships took on water in the small cove in the mouth of the Blackwood River	1A	1830 - 1935			
	В					

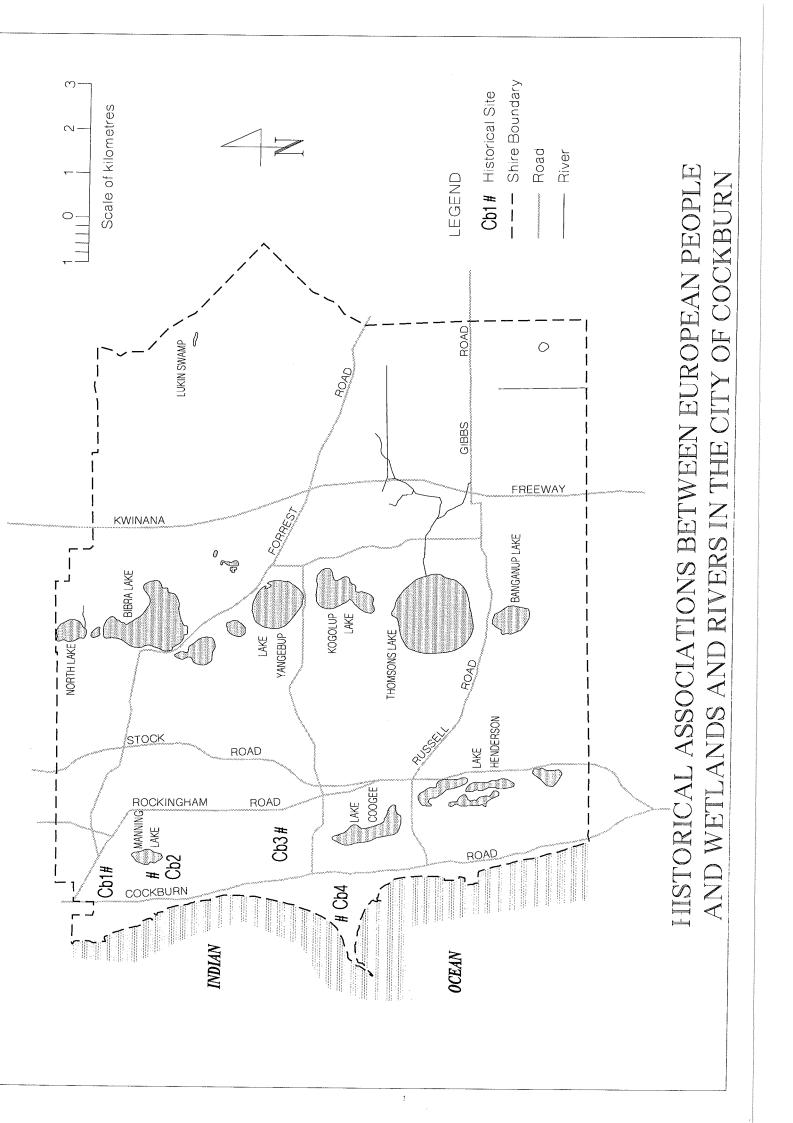
PUBLICATIONS:

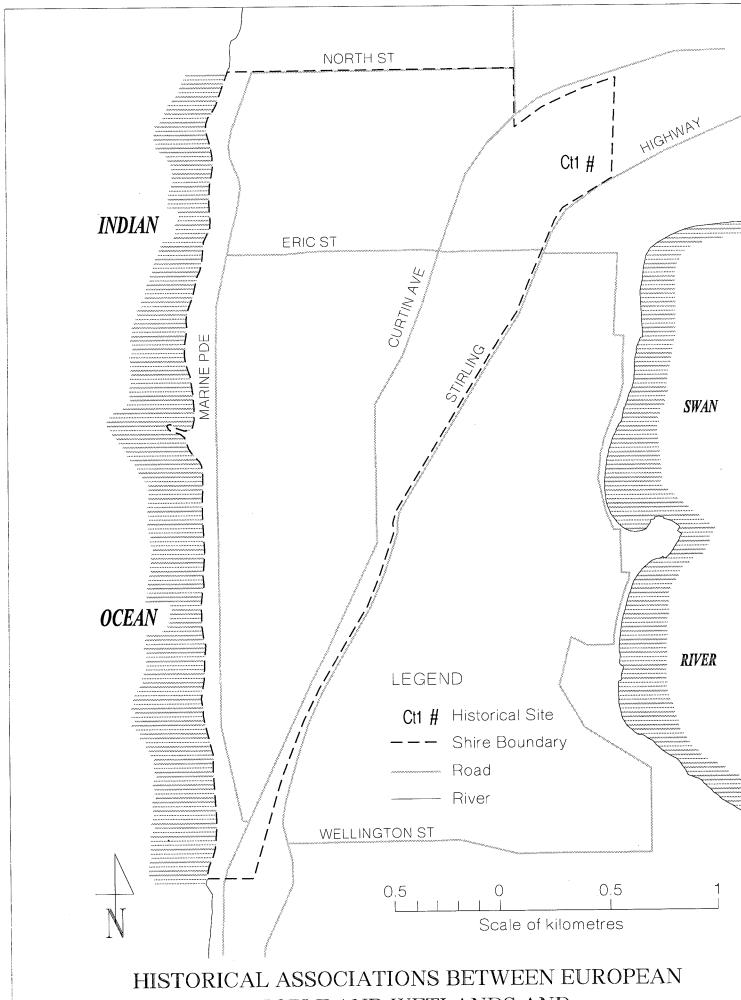
Author:	Name of publication:	Where is it available?	Cost ?

LOCATION:					
Land use activity:	Location and ty	pe of water used		Map no	Years
First European	A				
exploration:					
1	В				
			900		
Early settlement and	A				-
farming development:	В				
2	В				
Water Supply	A				
development:	В				
domestic:	С				
3	D				
Water Supply	A				
development: irrigation:	В				
4	В				
7					
Land drainage	A				
wetlands, etc.					
5	В				
	and a second second second second second second second second second second second second second second second				
Reservation of	Α				
waterways:					
6	В				
Anecdotal records	A				
of water quality:					
7	В				
Timber industry	Α				
development &:					
water utilisation	В				
8					<u> </u>
Historical utilisation	A				
of aquatic: flora & fauna	В				
9	В				
Publications Y = yes; N = no	Information held	Book/Publication	Report/		Unsure
uoncanons Y = yes; N = no	and the state of t	20001 univation	Unpublished	info	Onsure

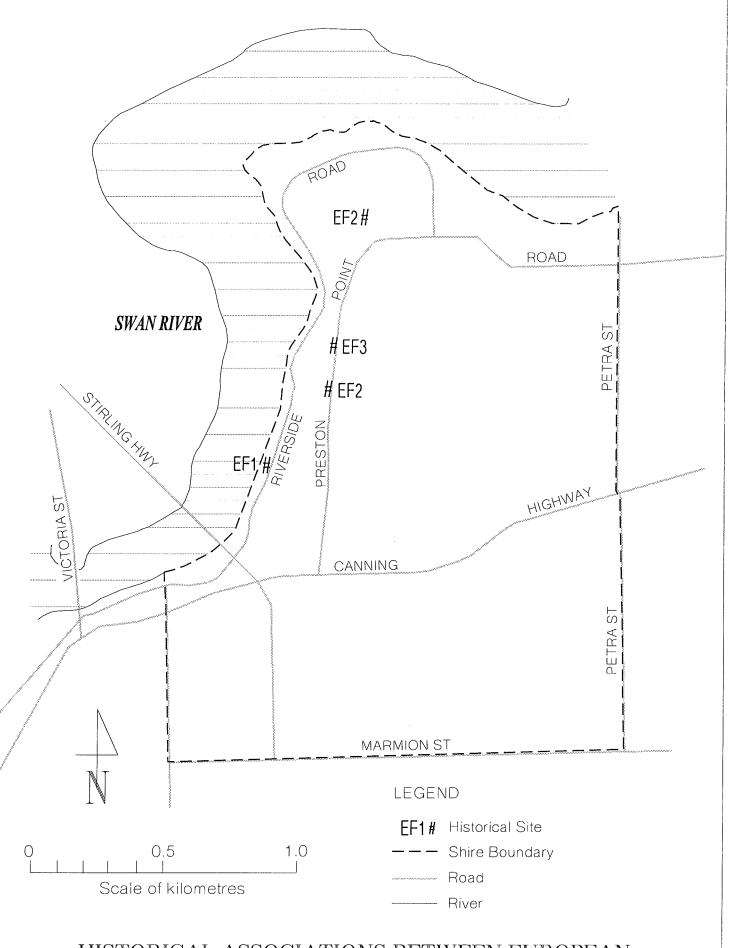


HISTORICAL ASSOCIATIONS BETWEEN EUROPEAN PEOPLE AND WETLANDS AND RIVERS IN THE TOWN OF CLAREMONT

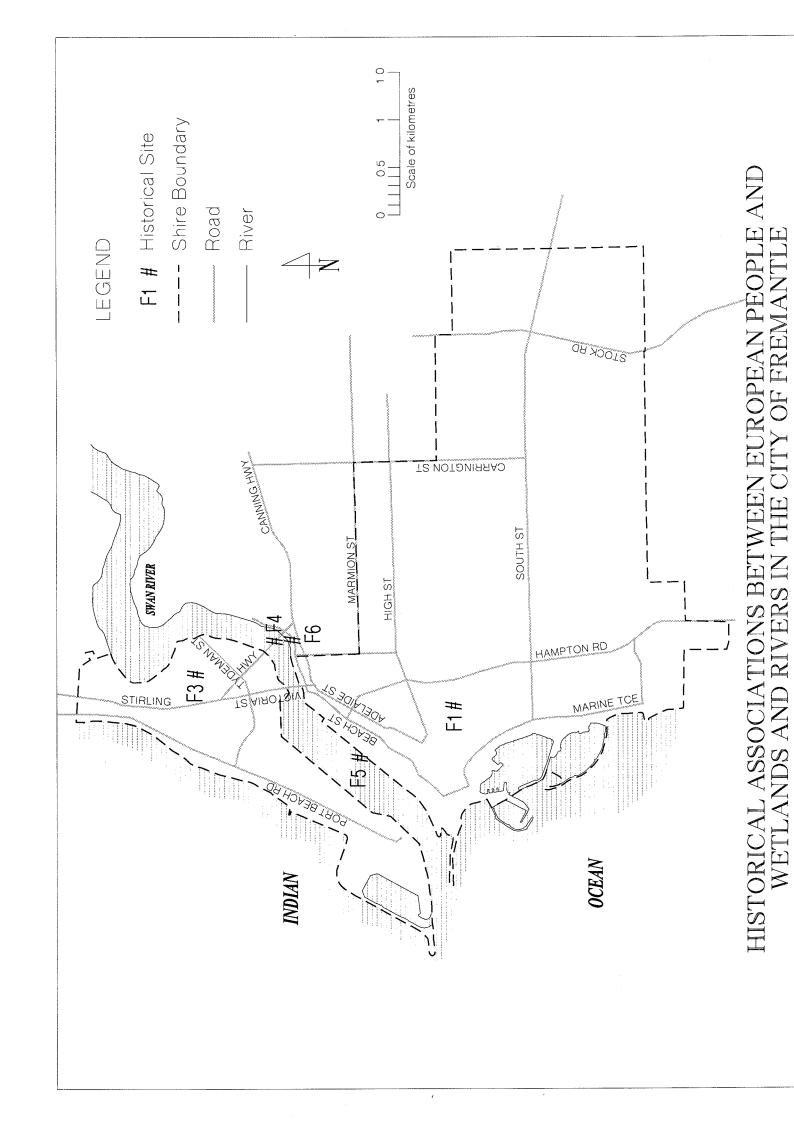


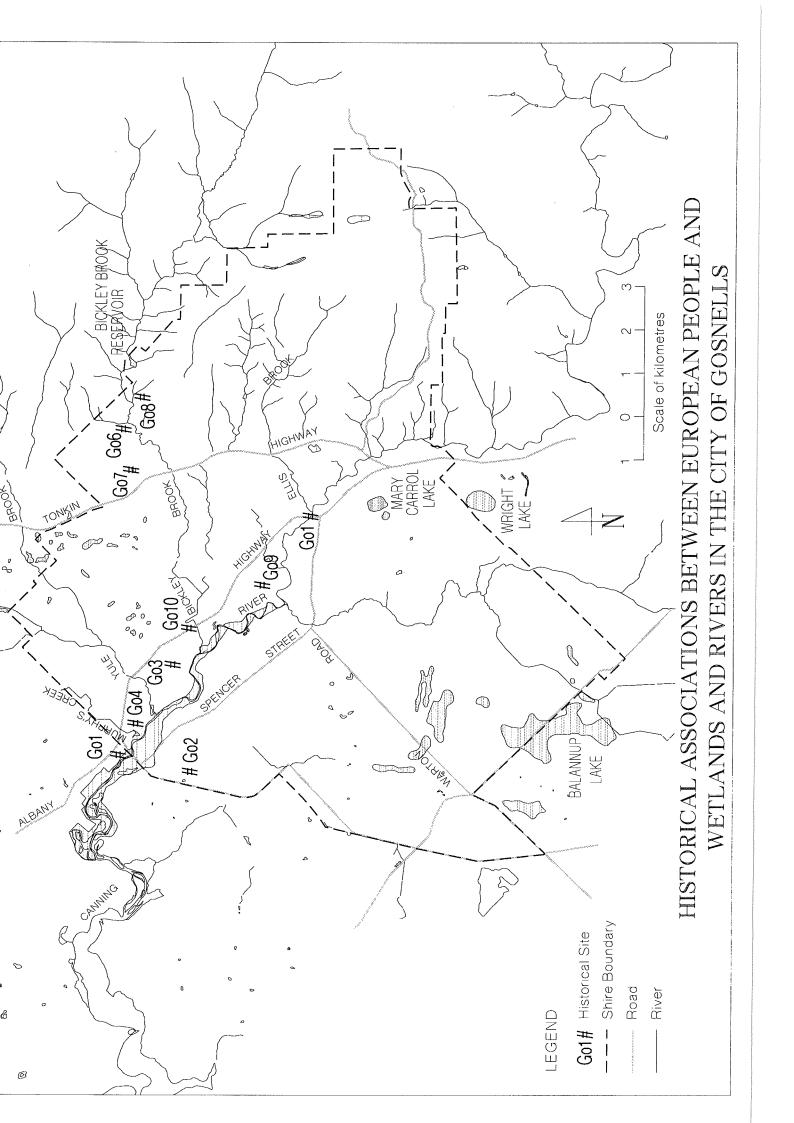


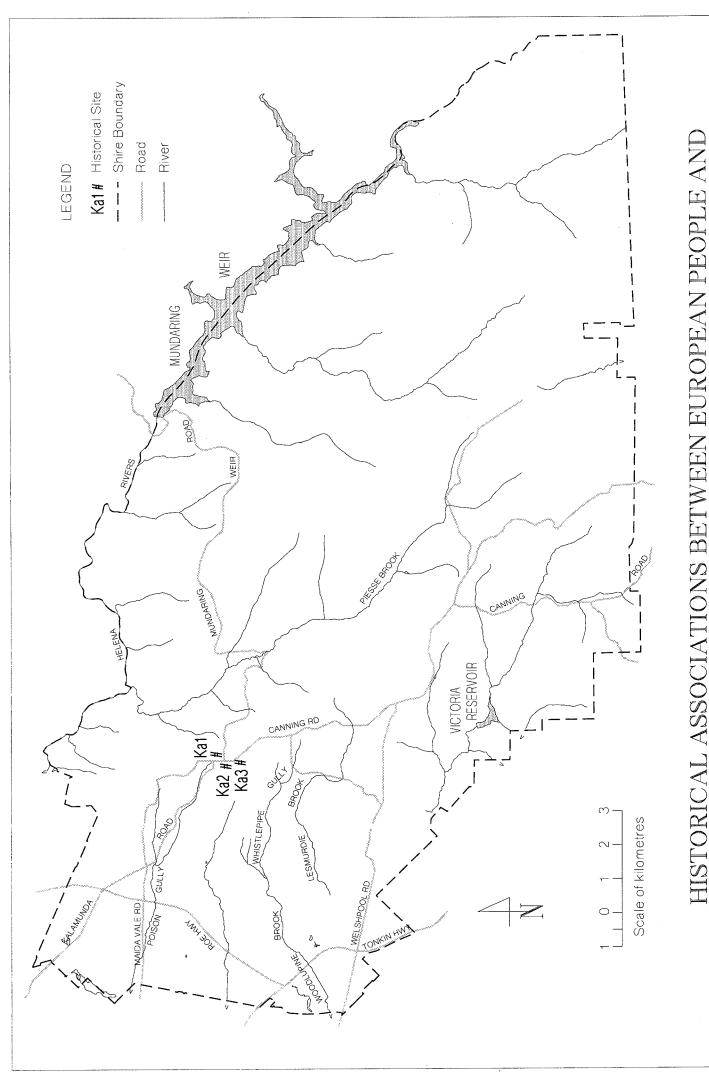
HISTORICAL ASSOCIATIONS BETWEEN EUROPEAN
PEOPLE AND WETLANDS AND
RIVERS IN THE TOWN OF COTTESLOE



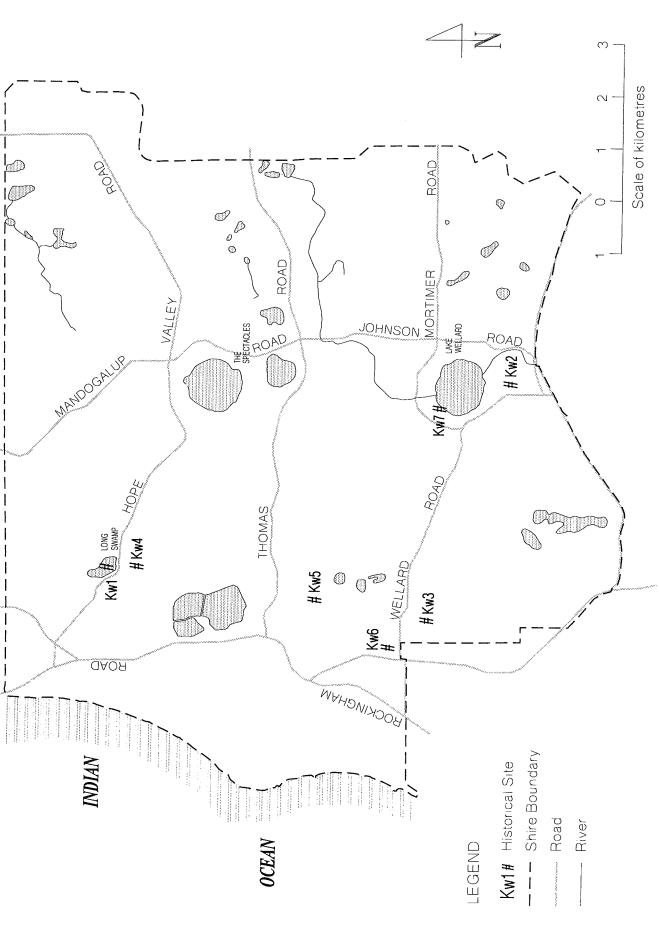
HISTORICAL ASSOCIATIONS BETWEEN EUROPEAN PEOPLE AND WETLANDS AND RIVERS IN THE TOWN OF EAST FREMANTLE



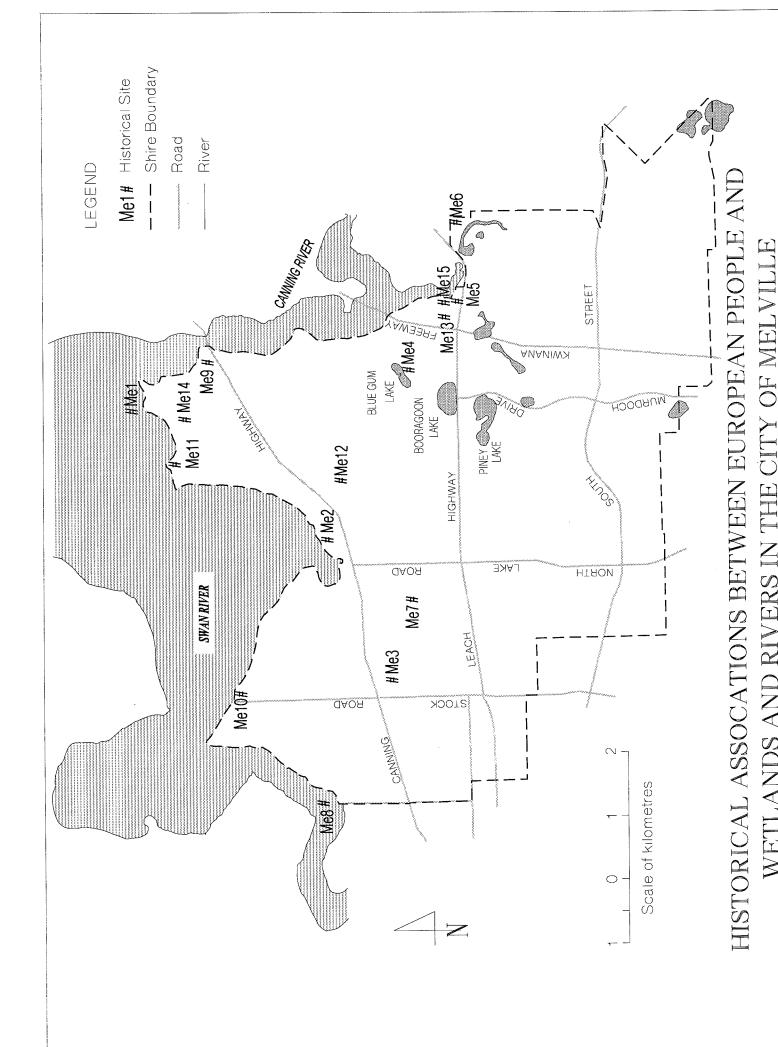


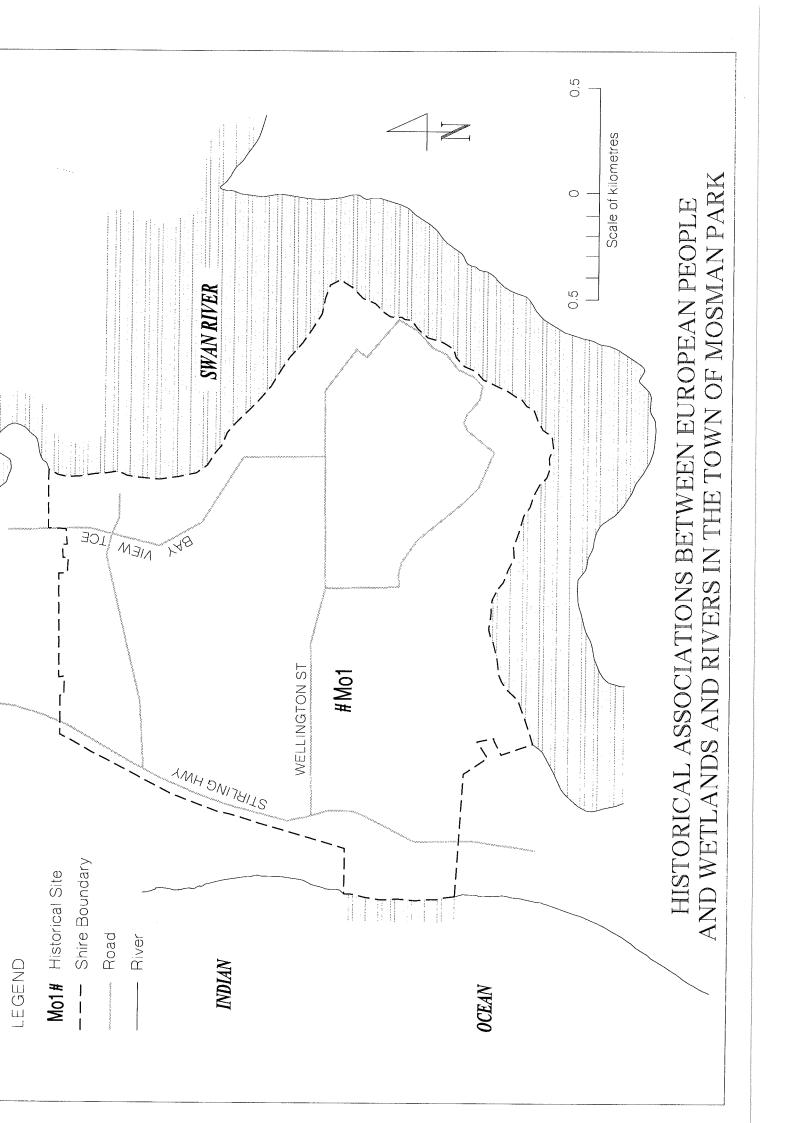


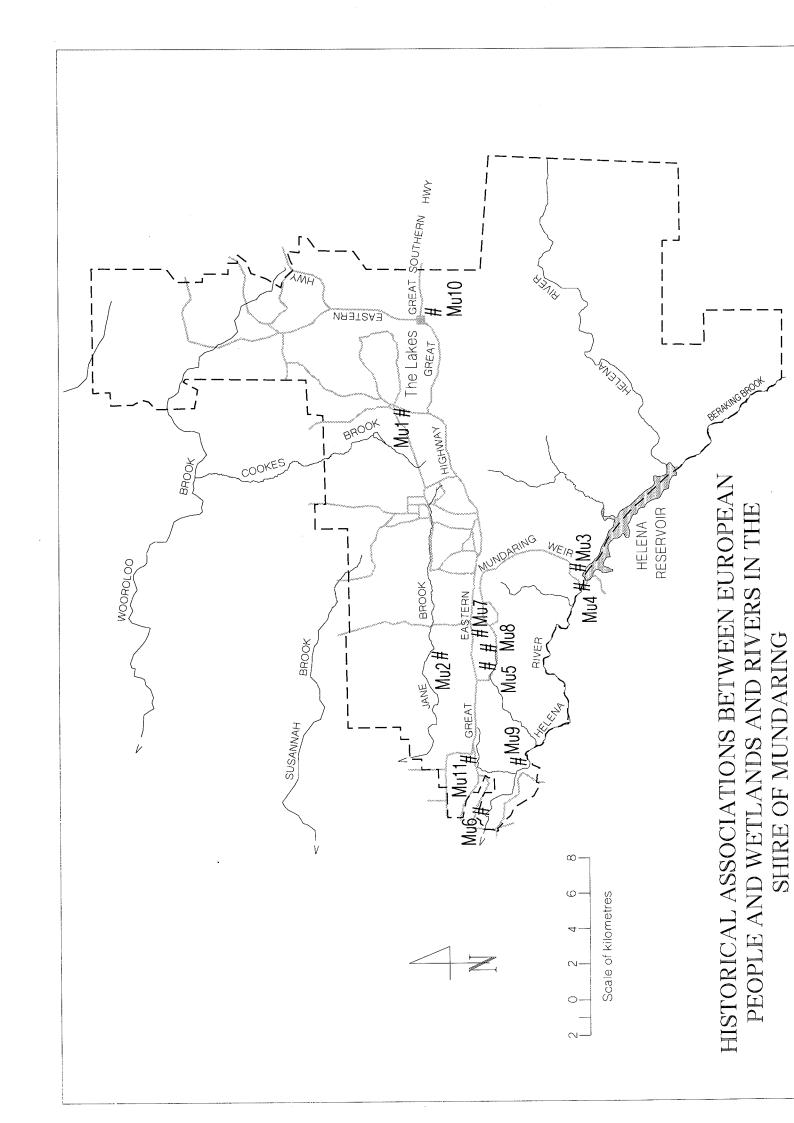
WETLANDS AND RIVERS IN THE SHIRE OF KALAMUNDA

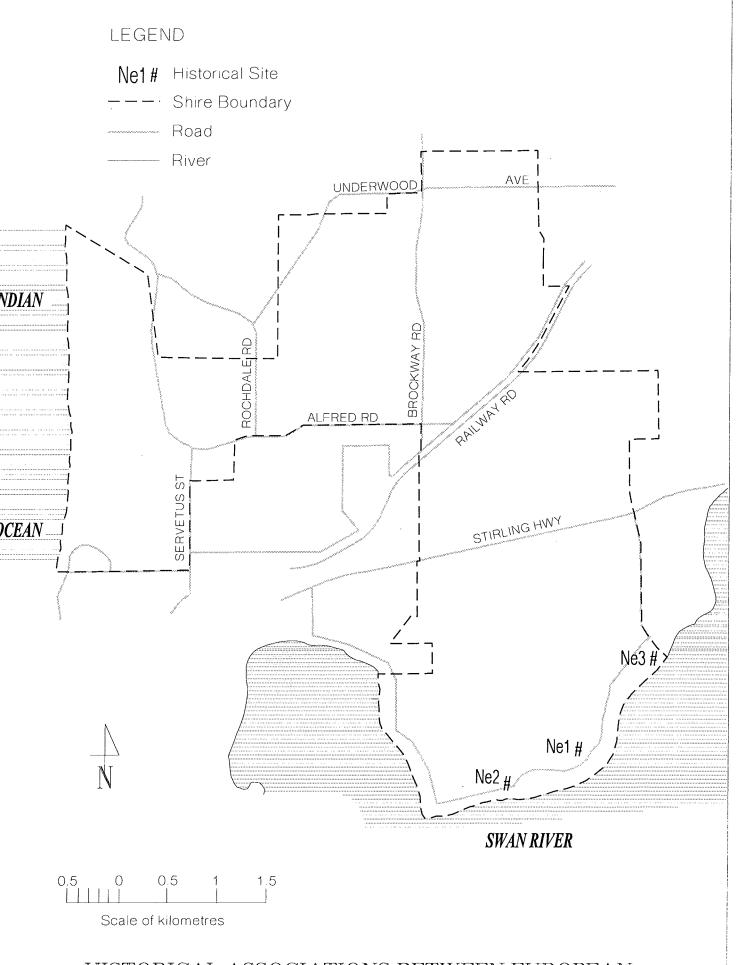


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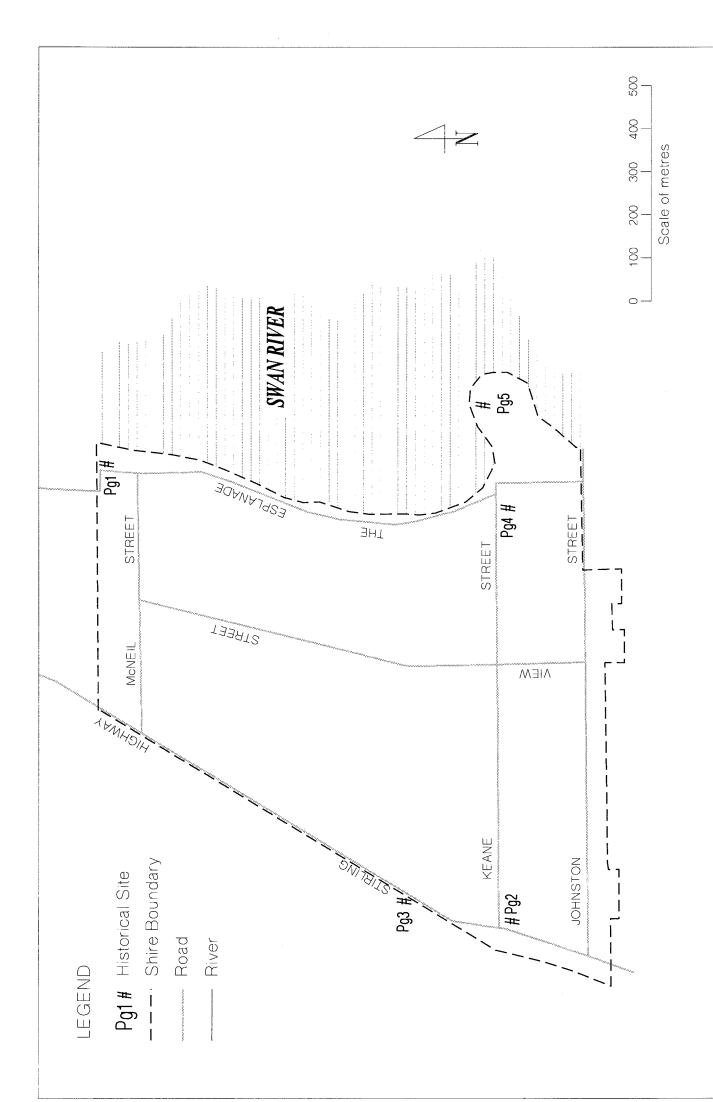




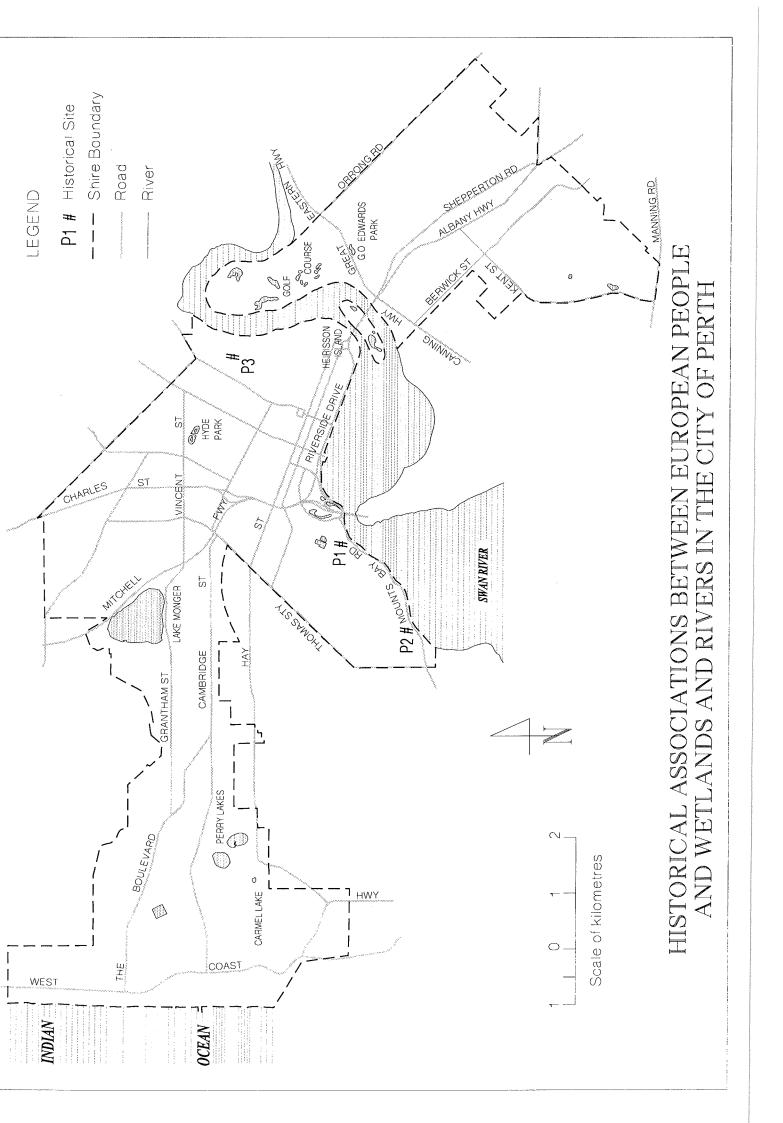


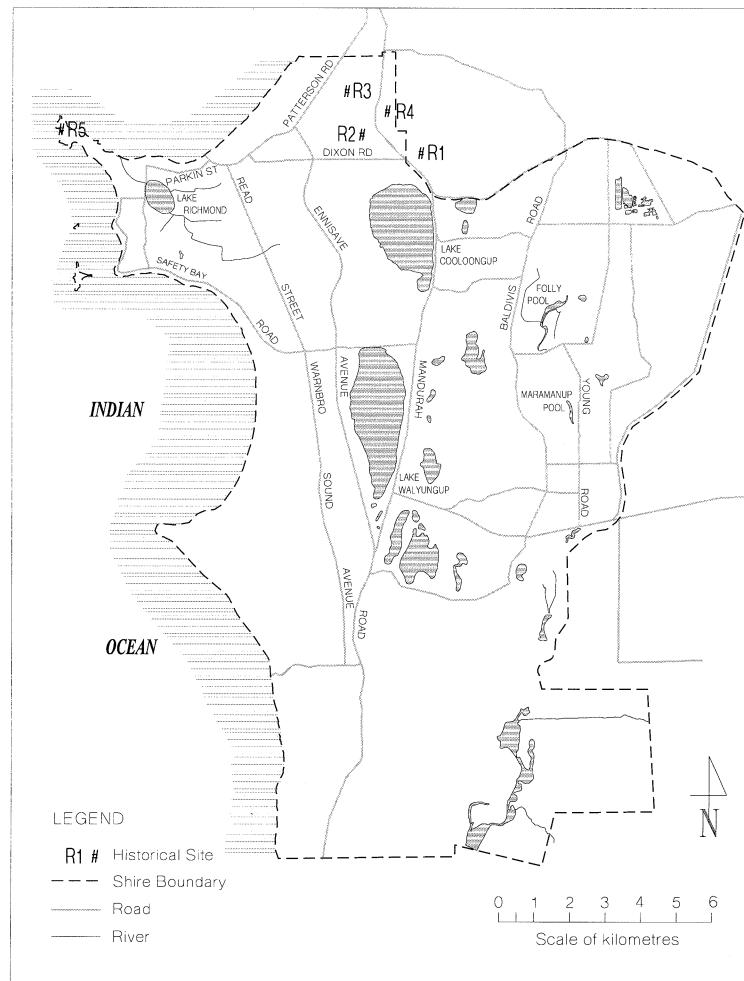


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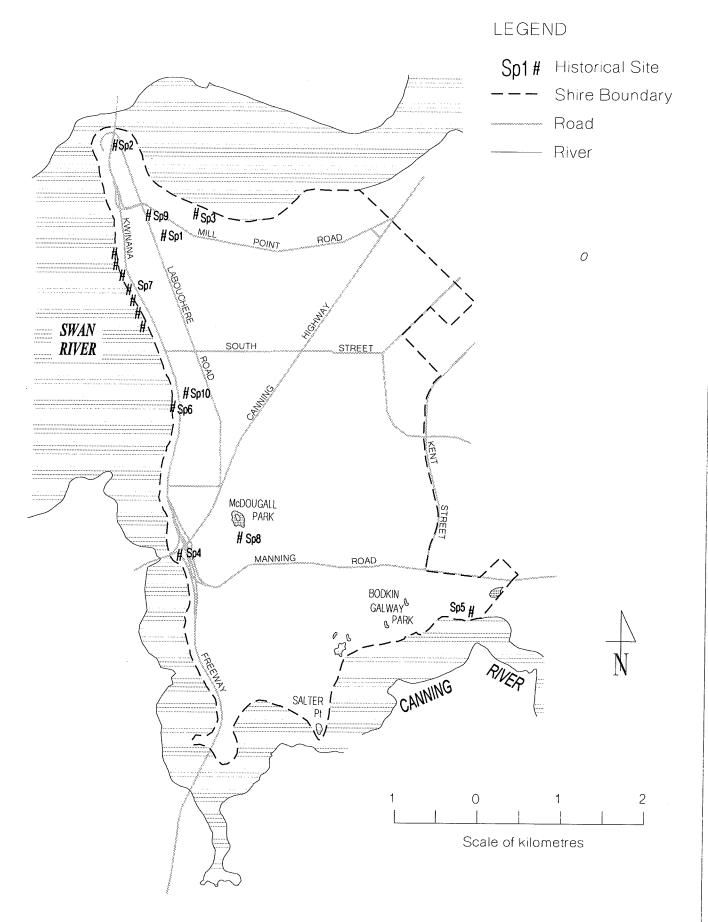


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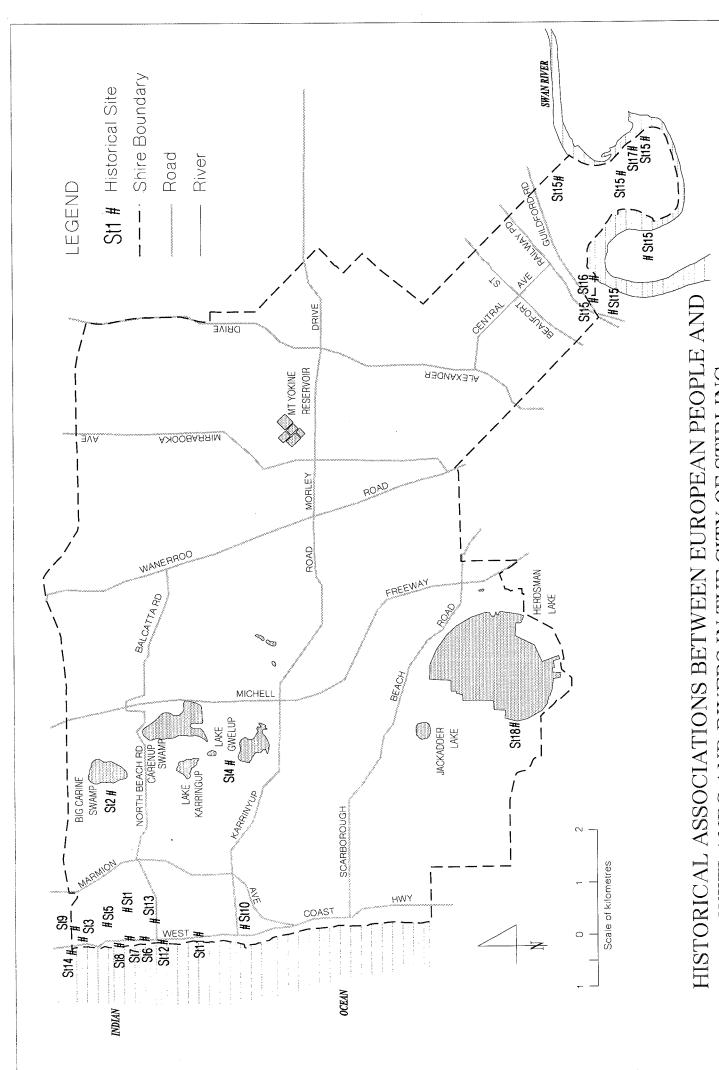




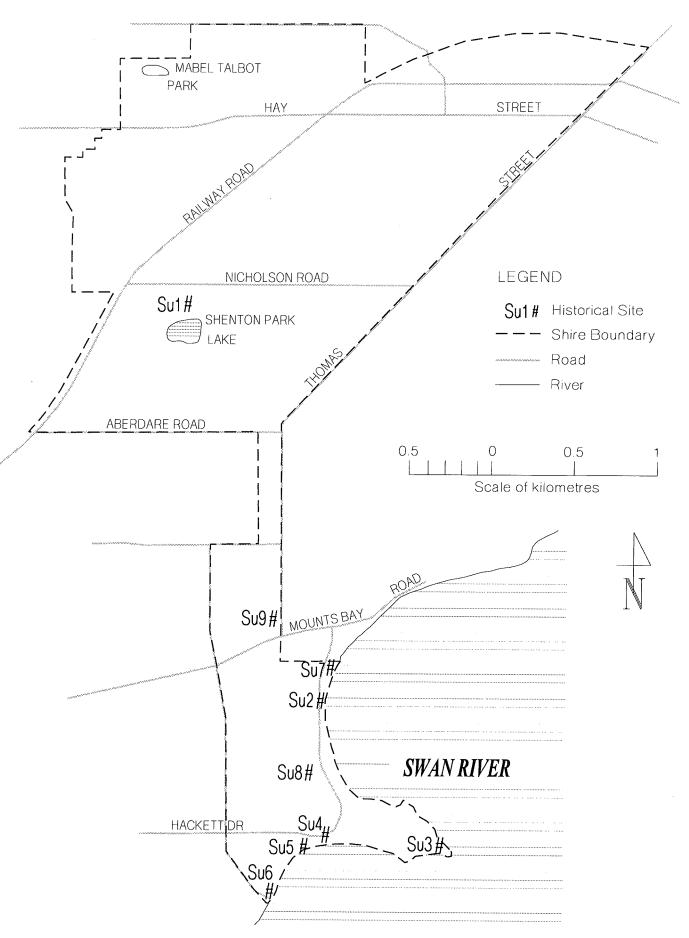
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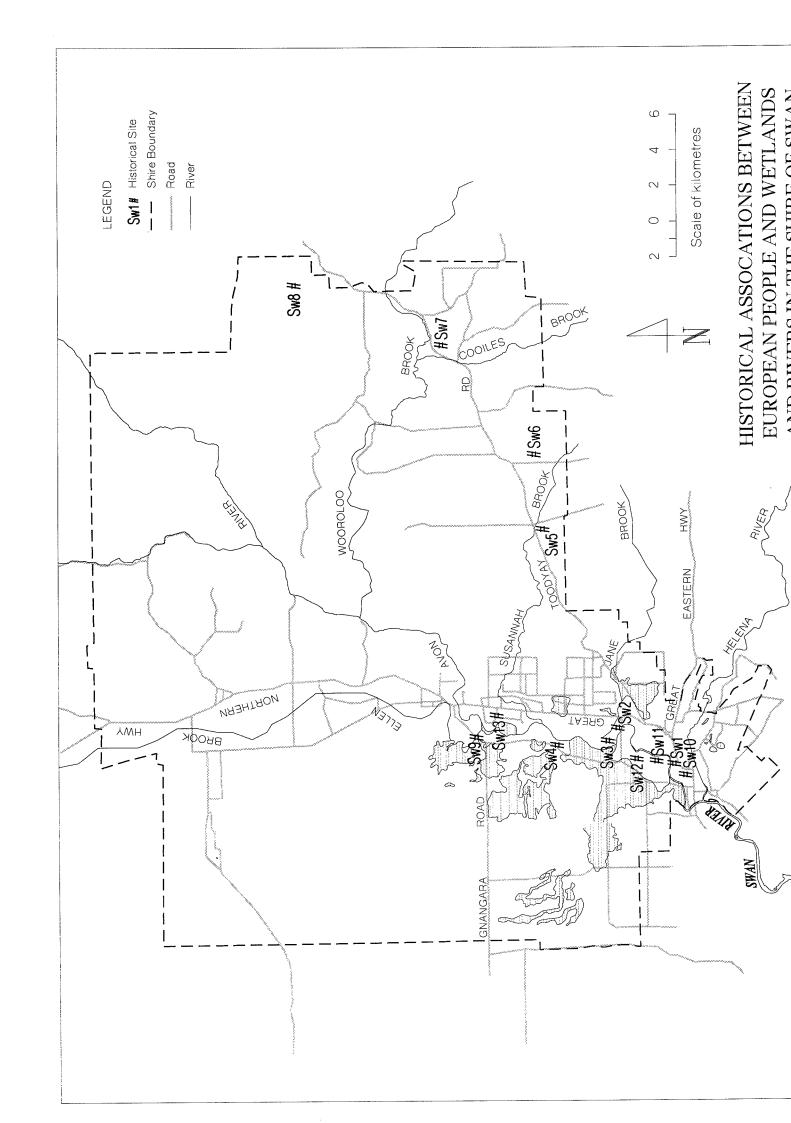
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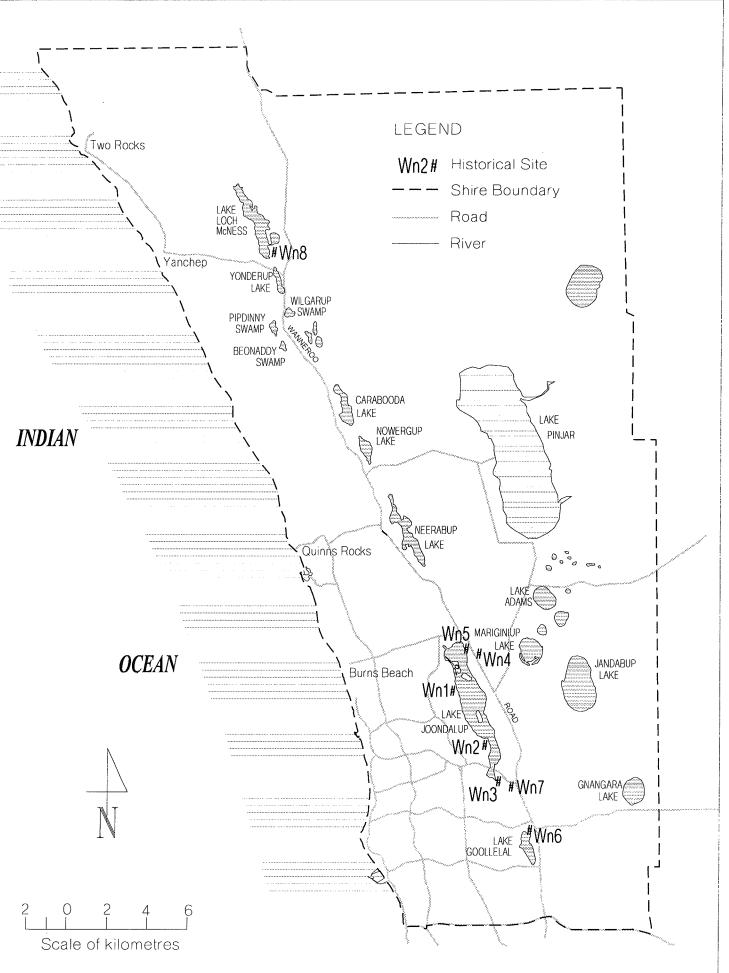


WETLANDS AND RIVERS IN THE CITY OF STIRLING

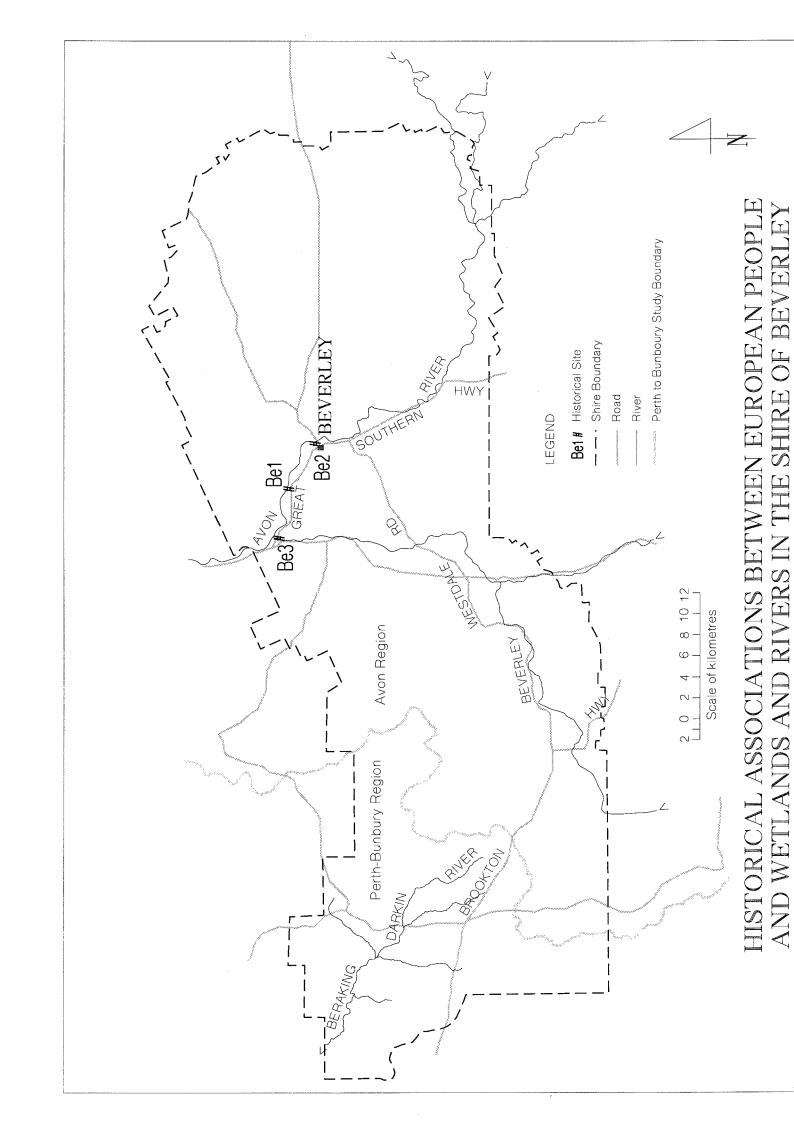


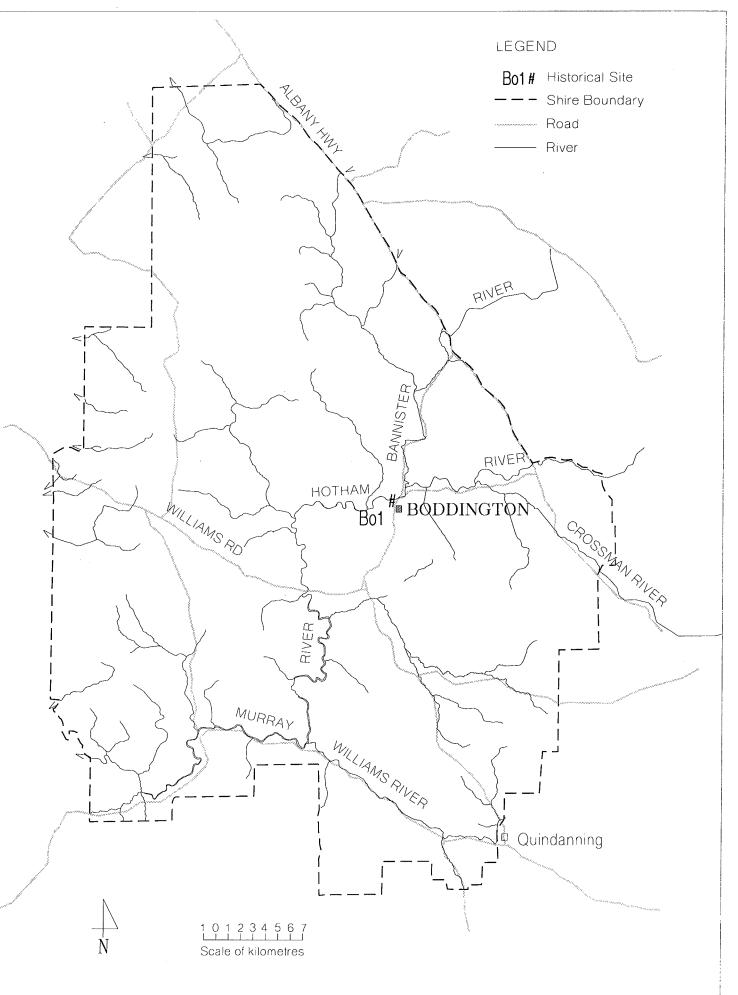
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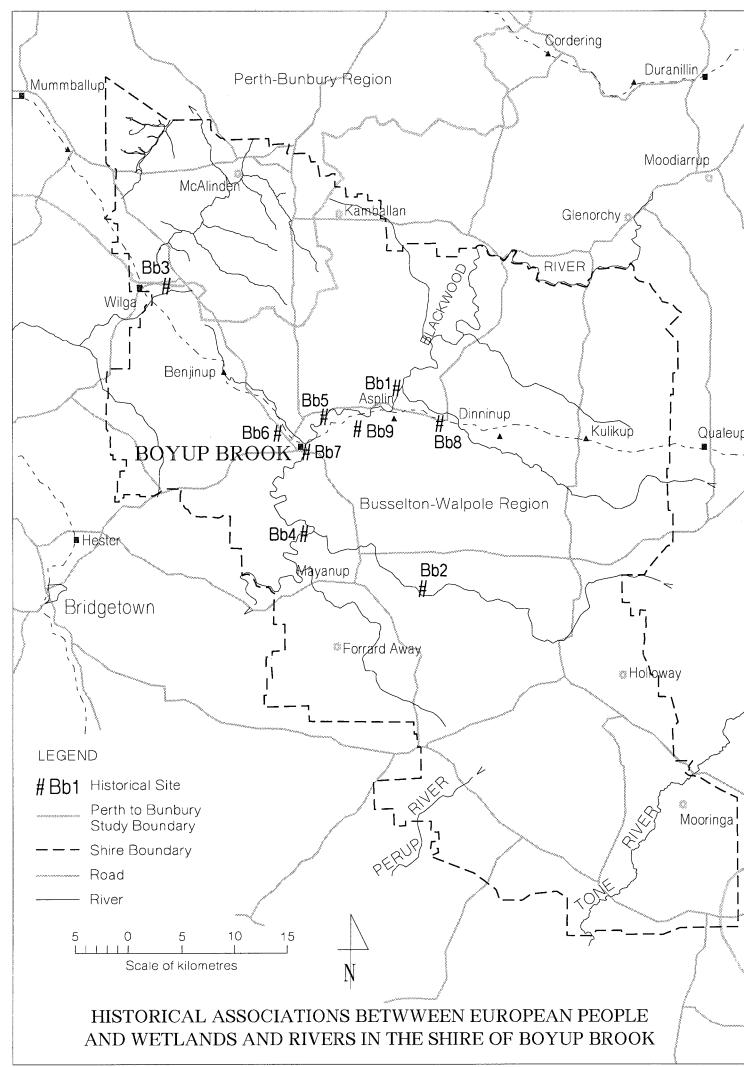


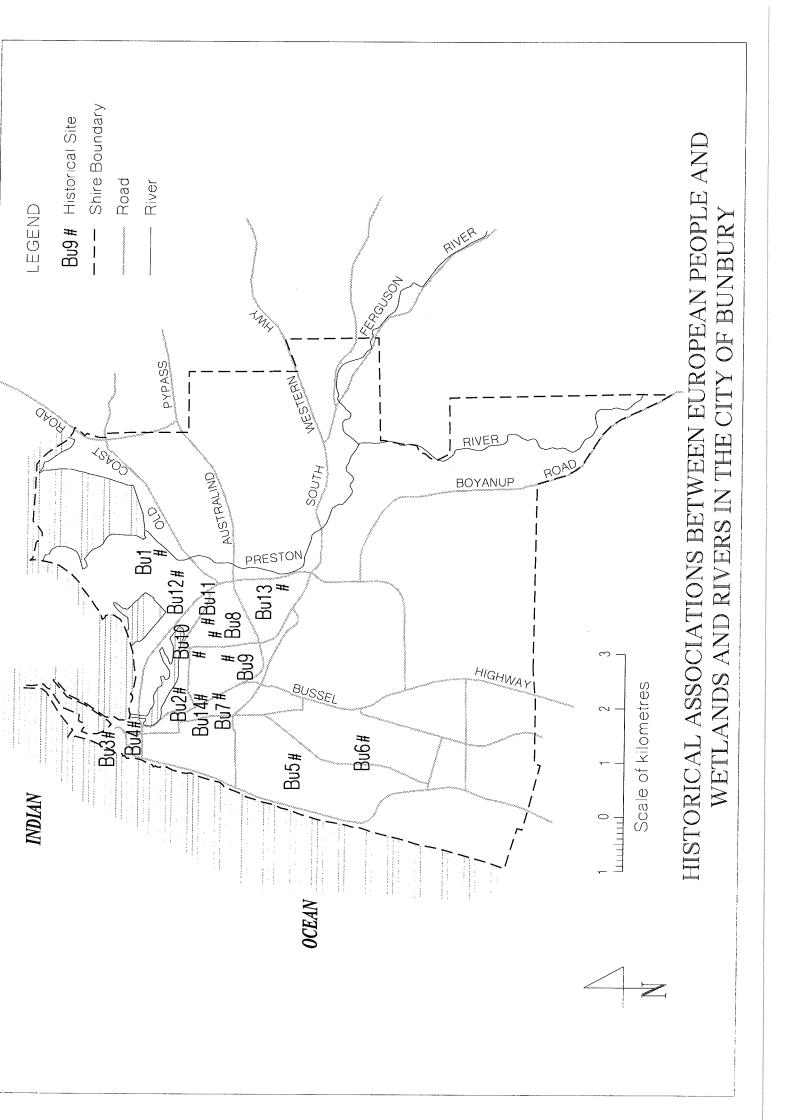
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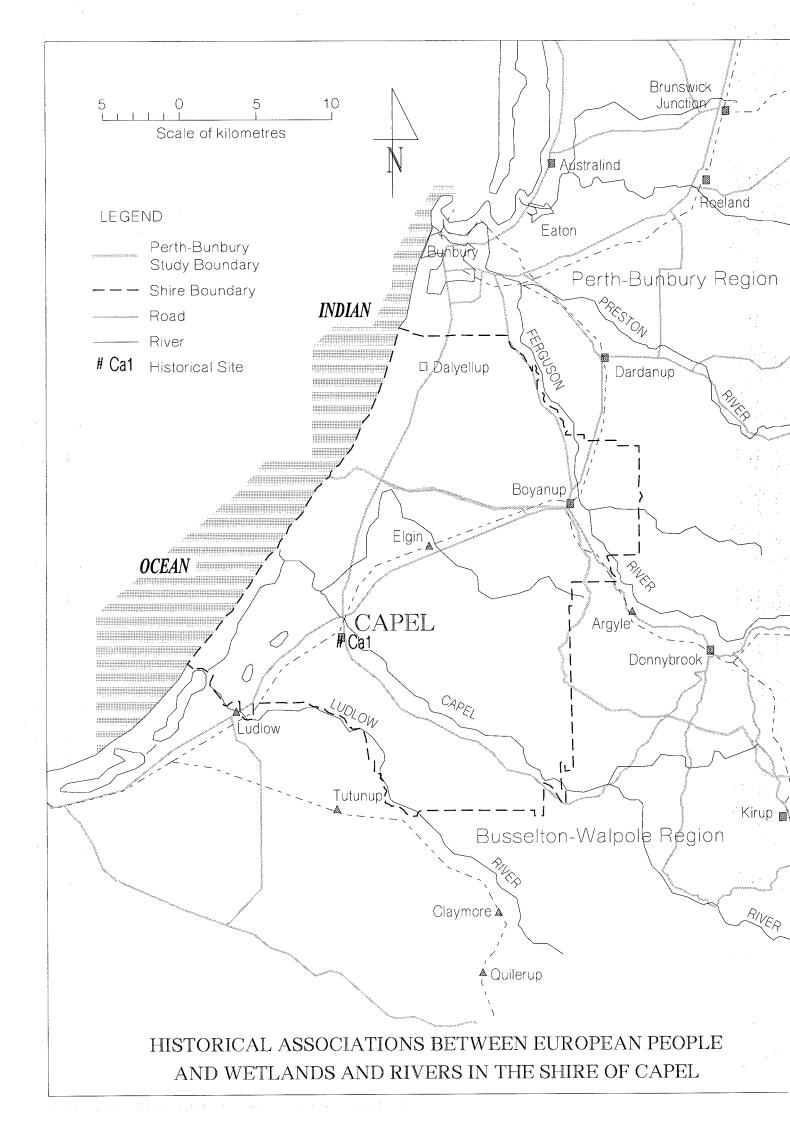


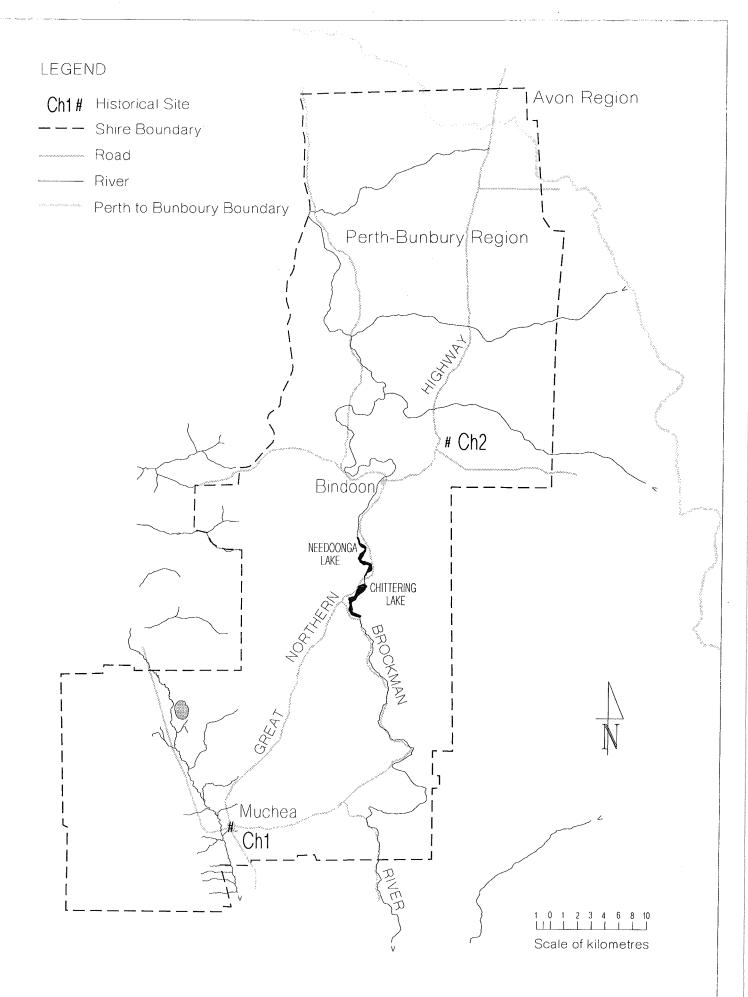


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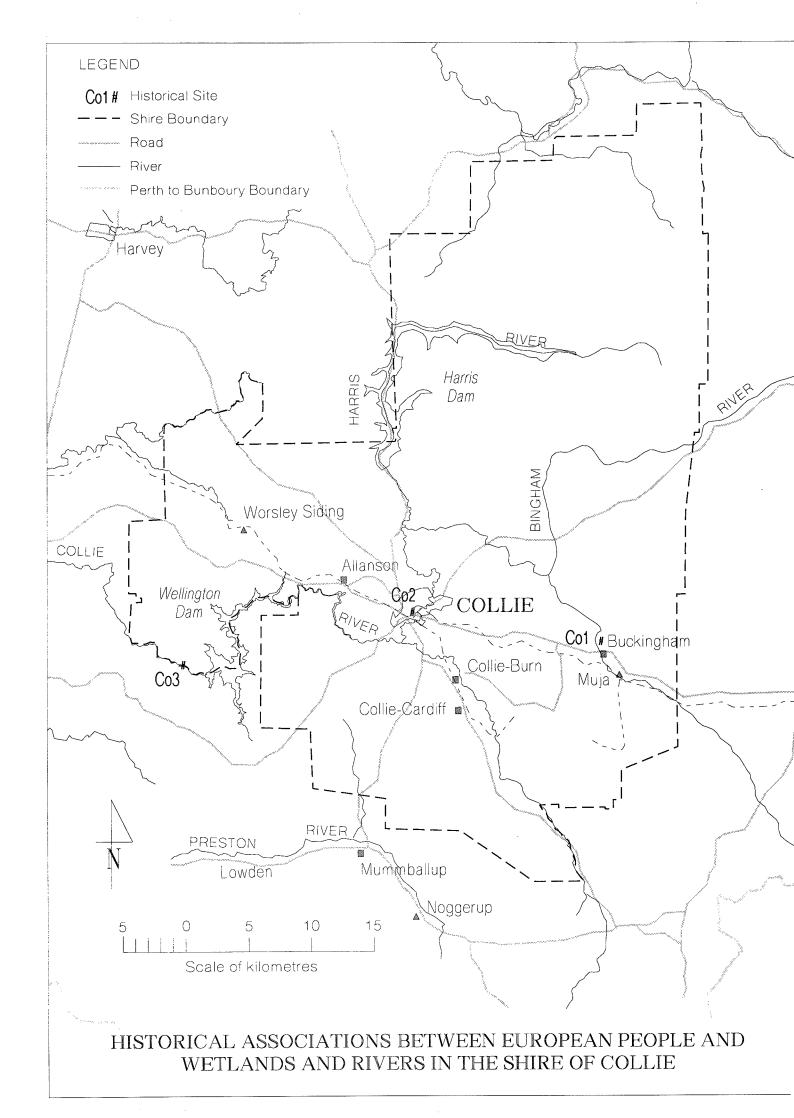


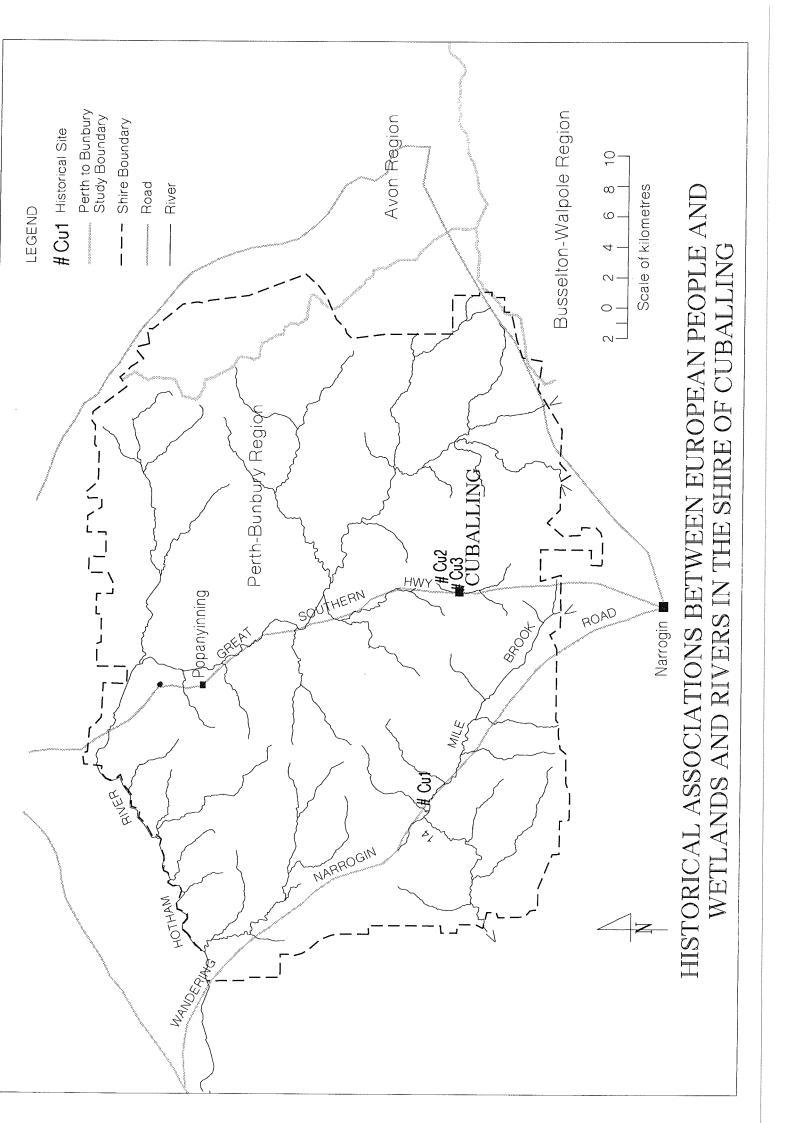


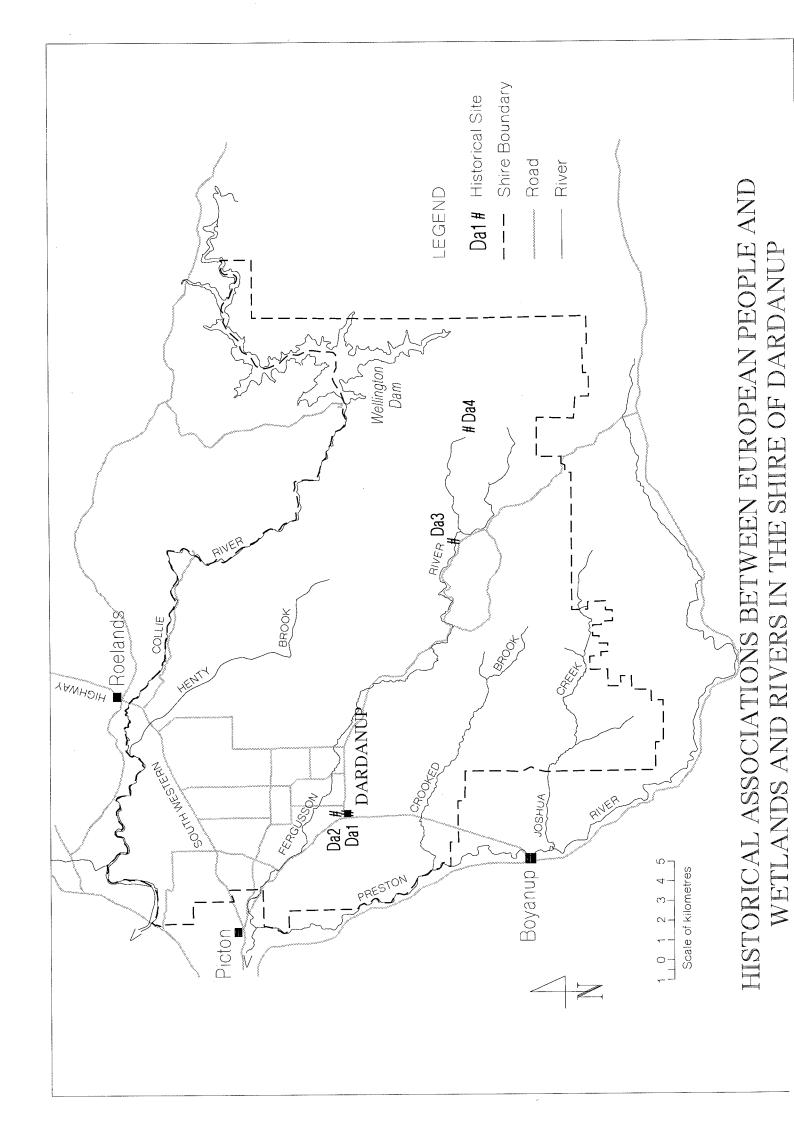


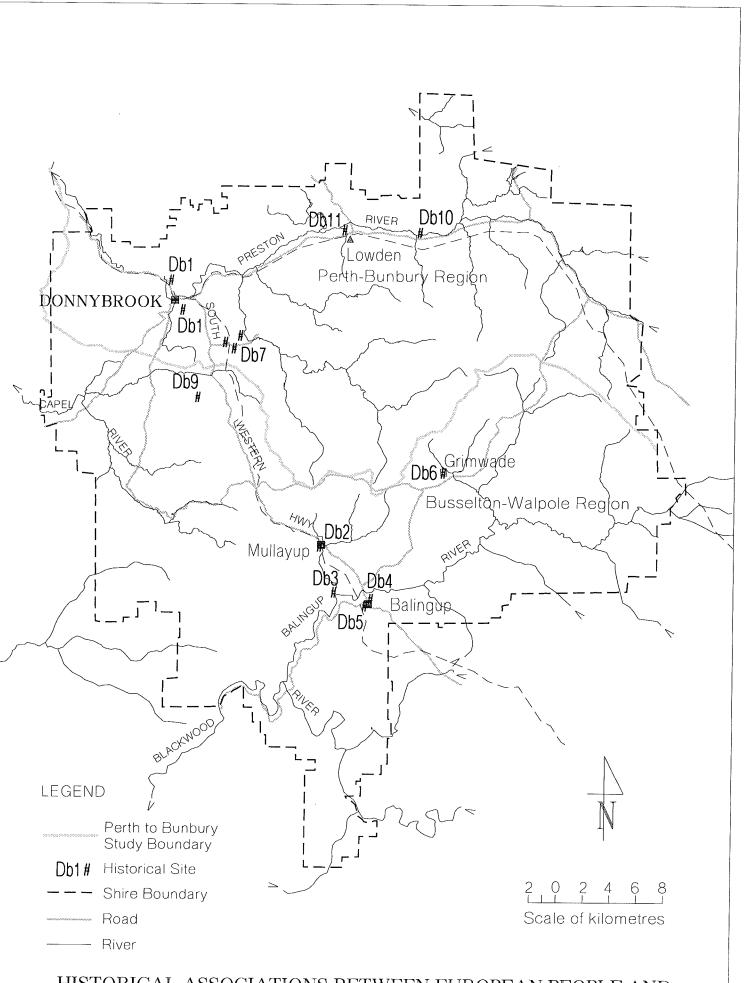


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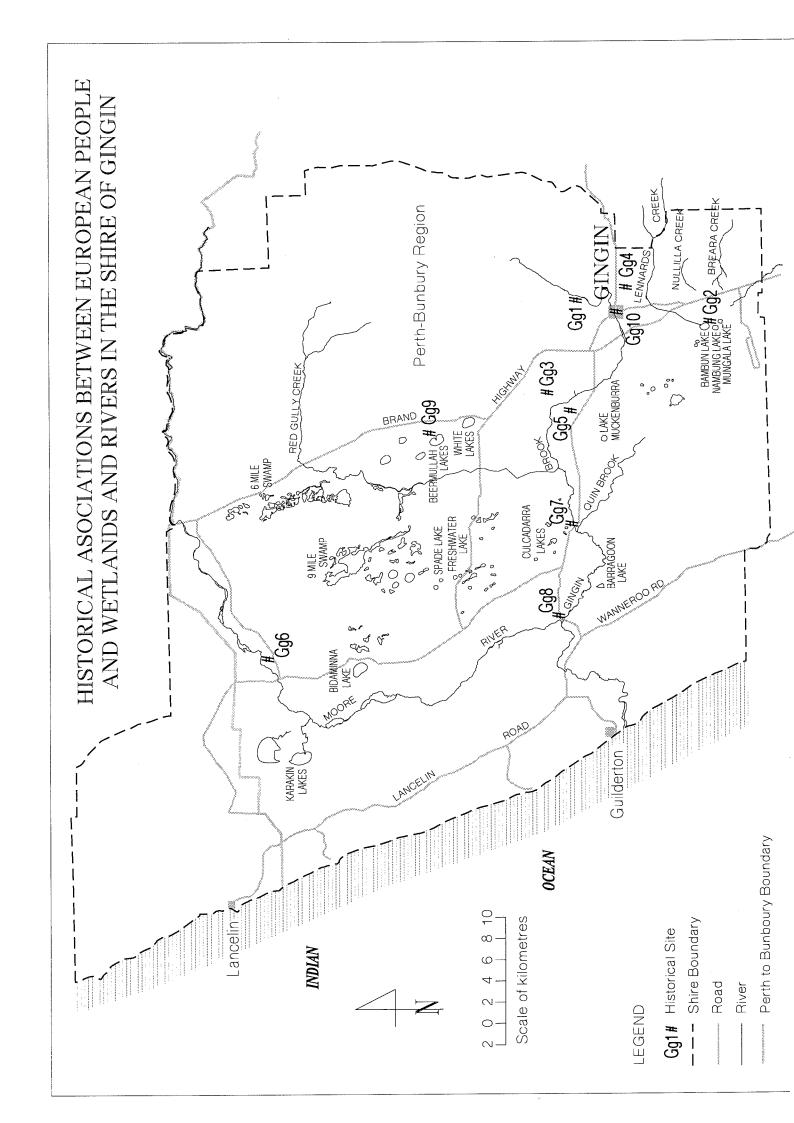


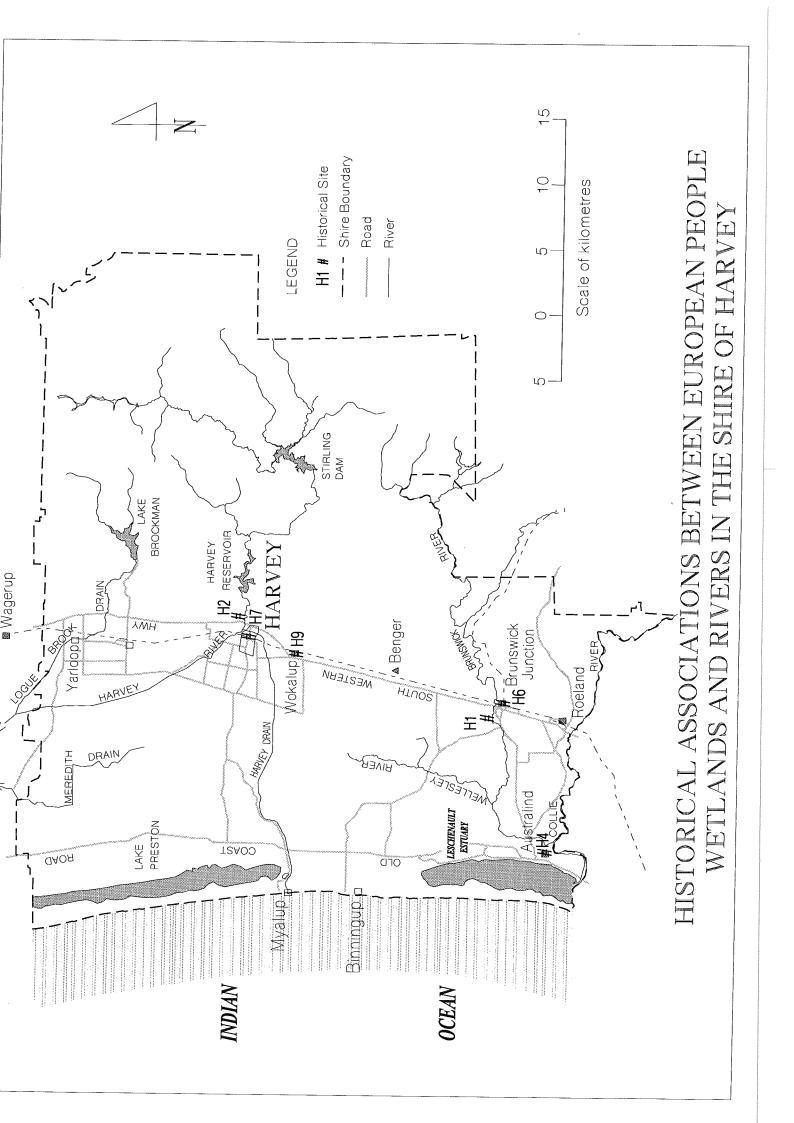


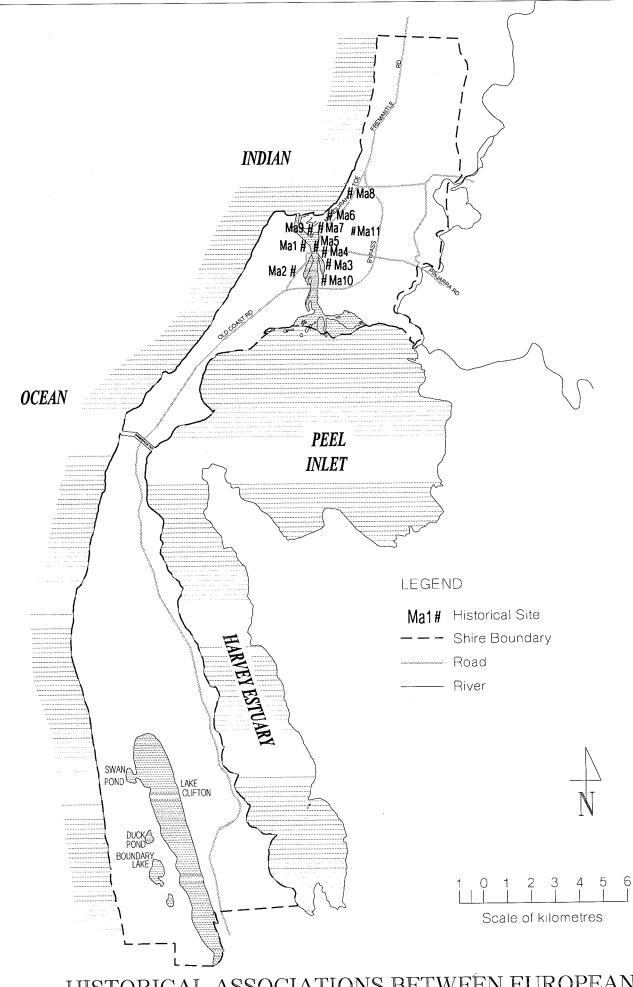




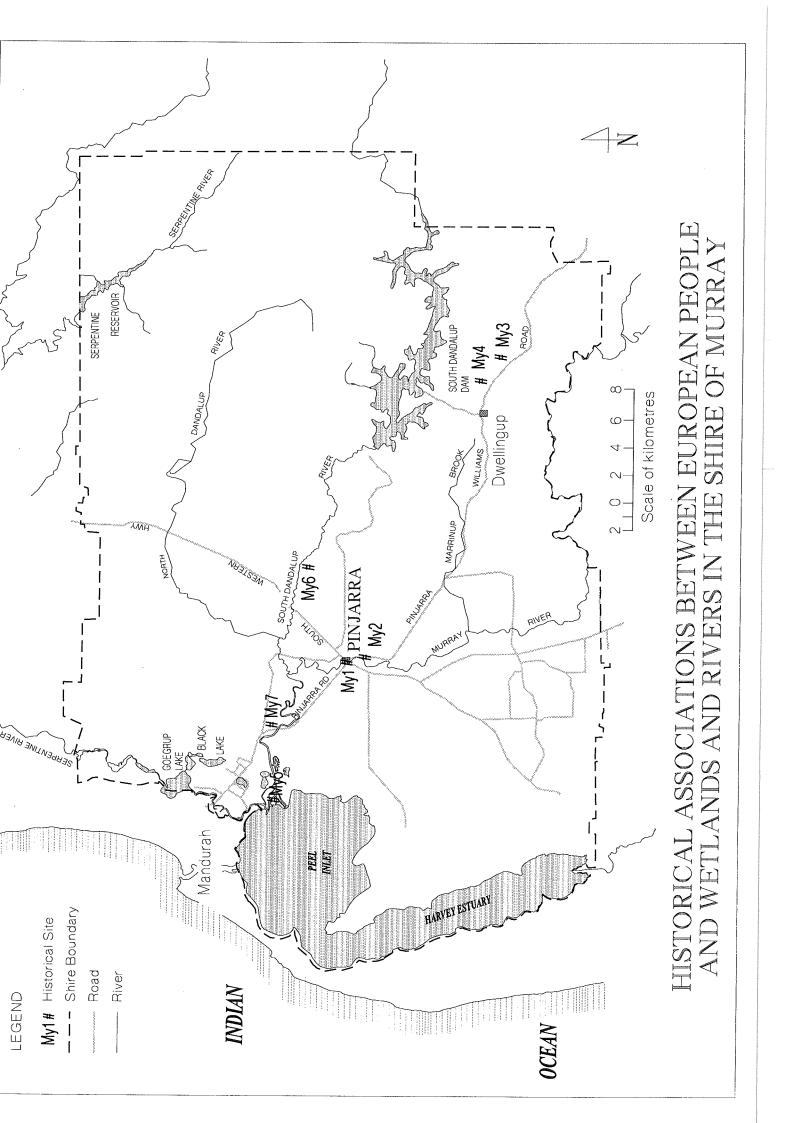
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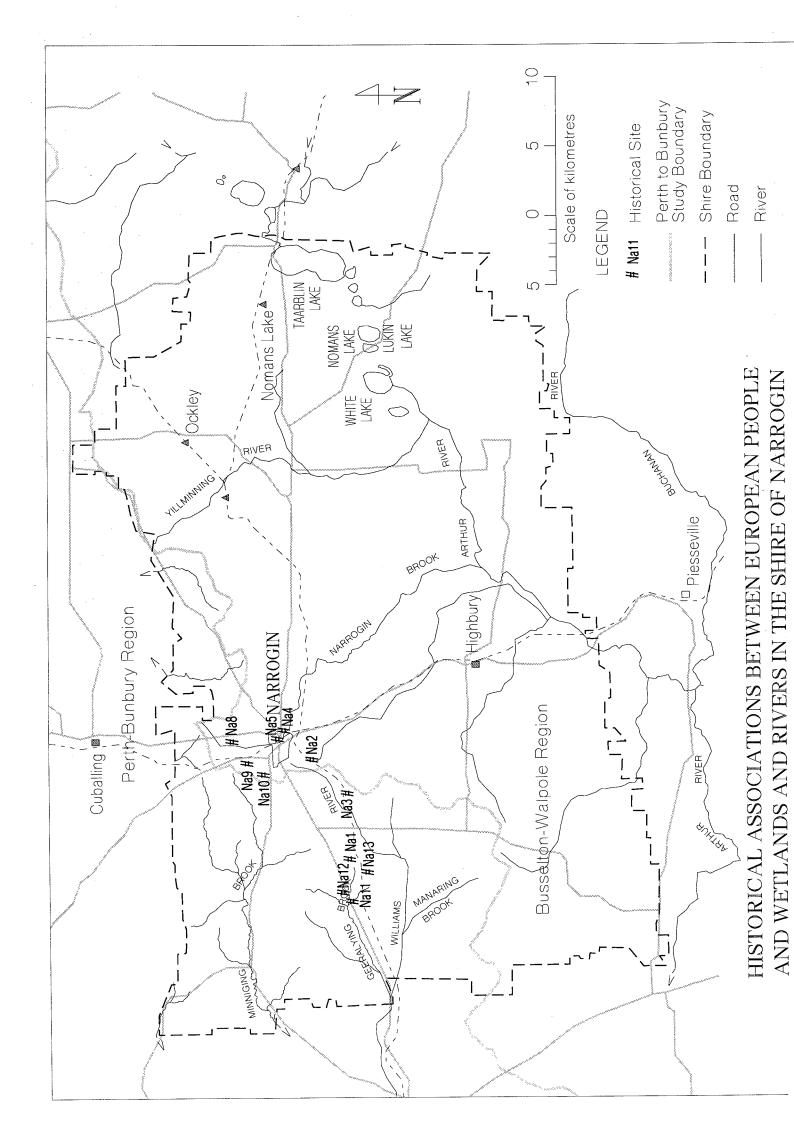


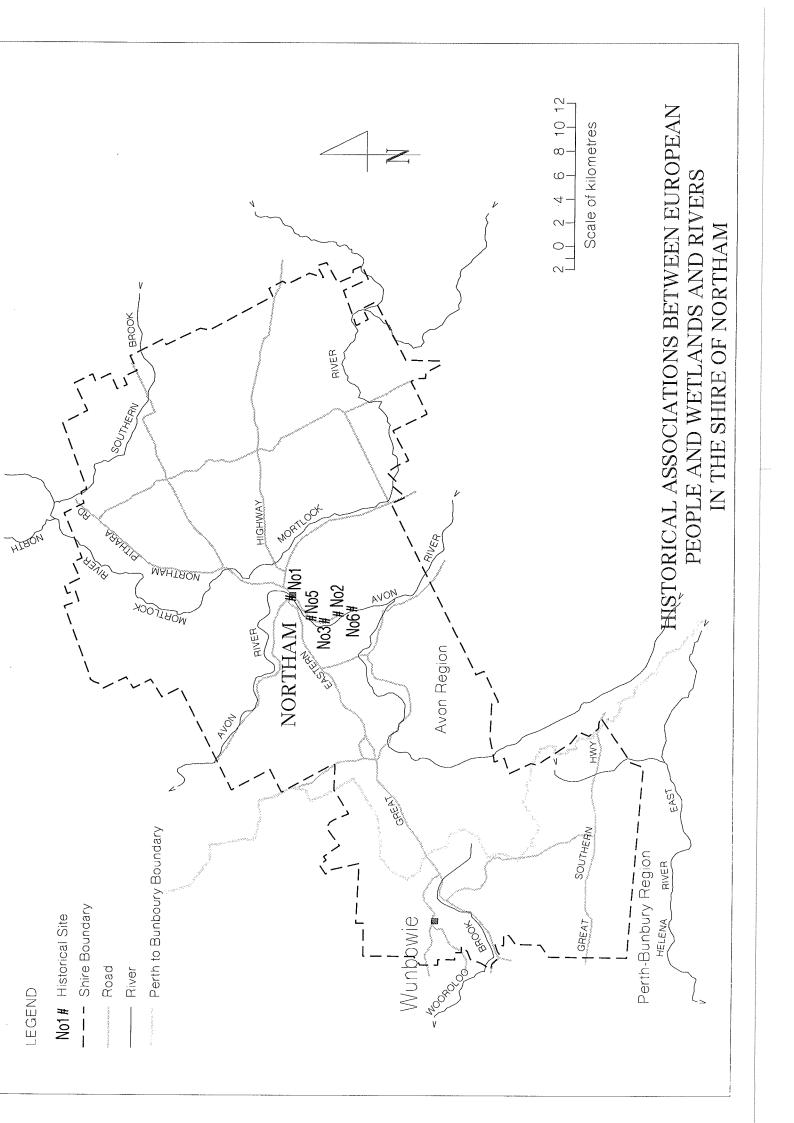


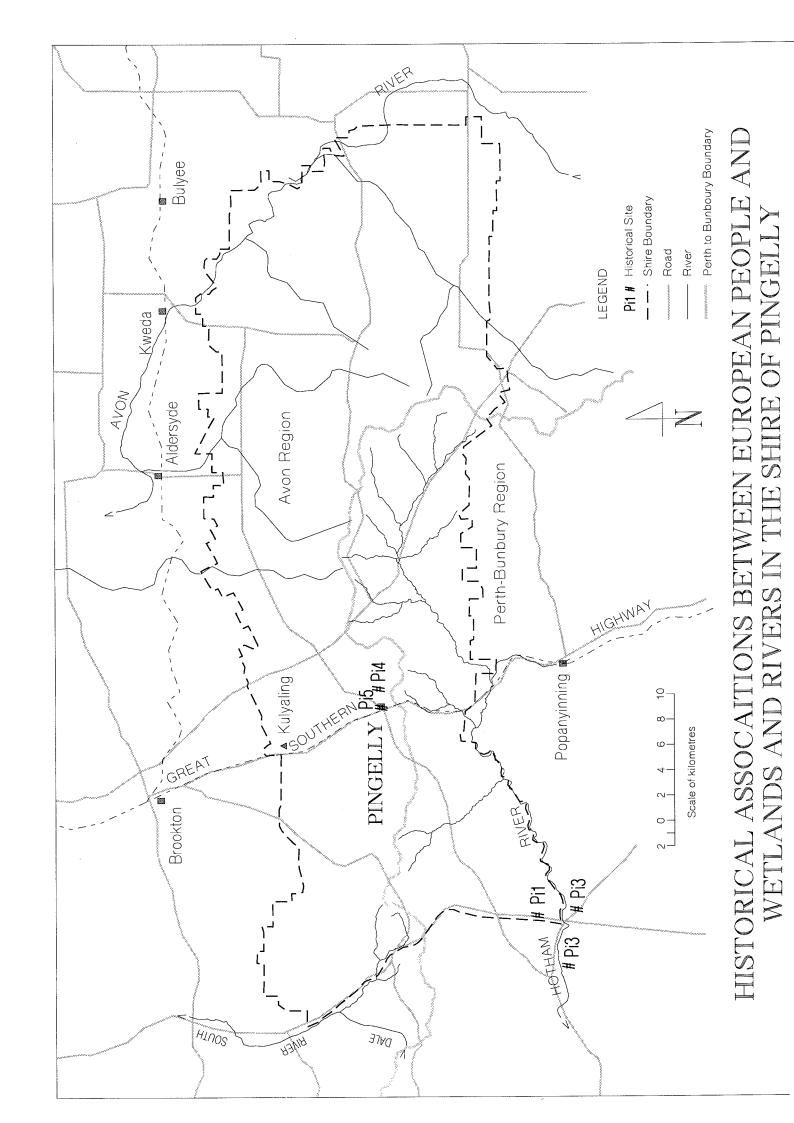


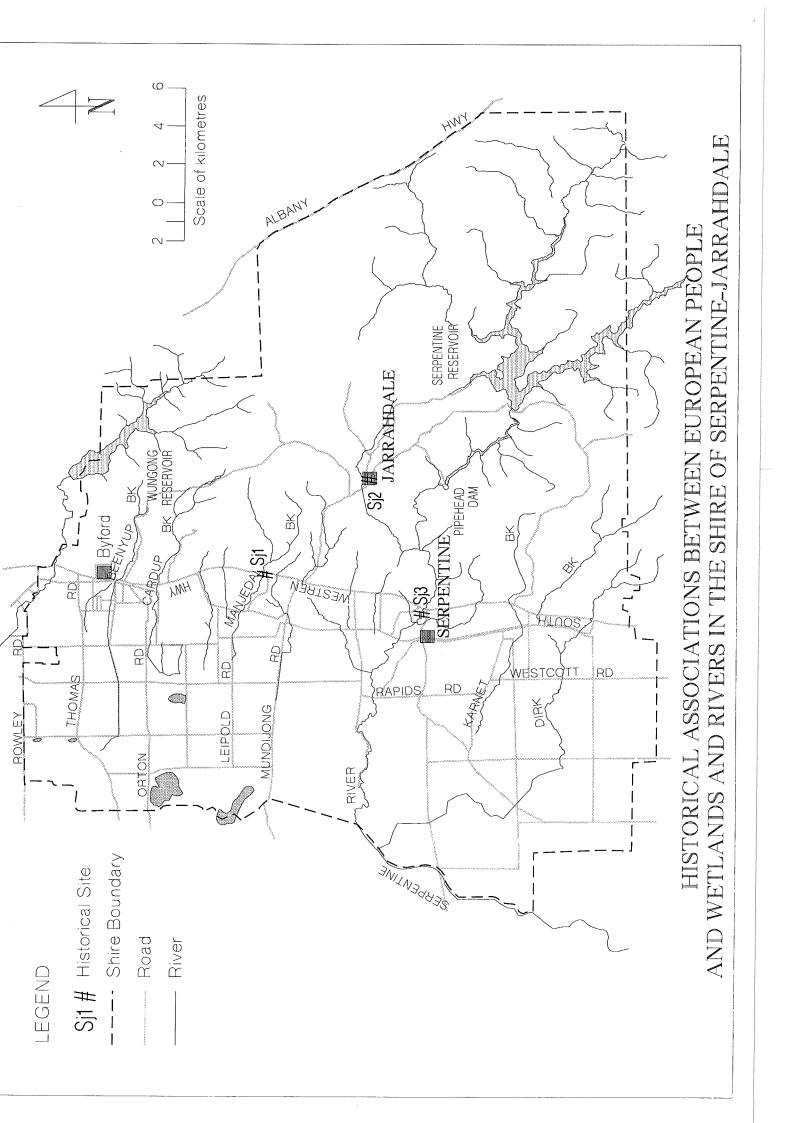
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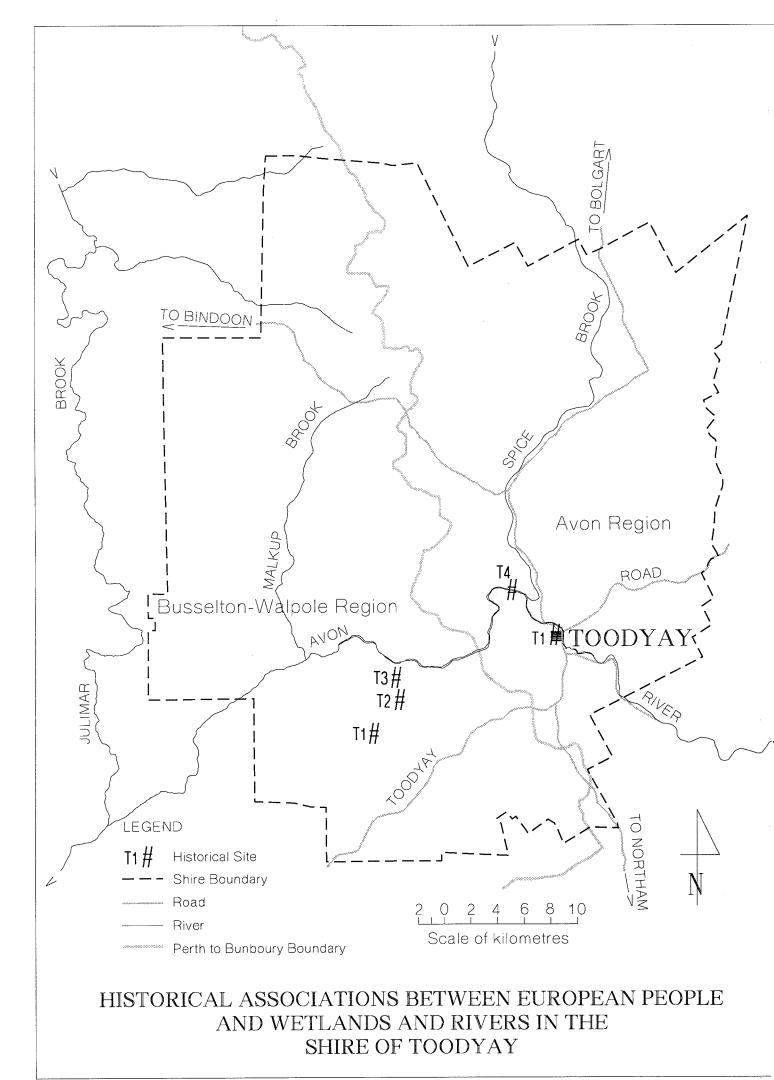


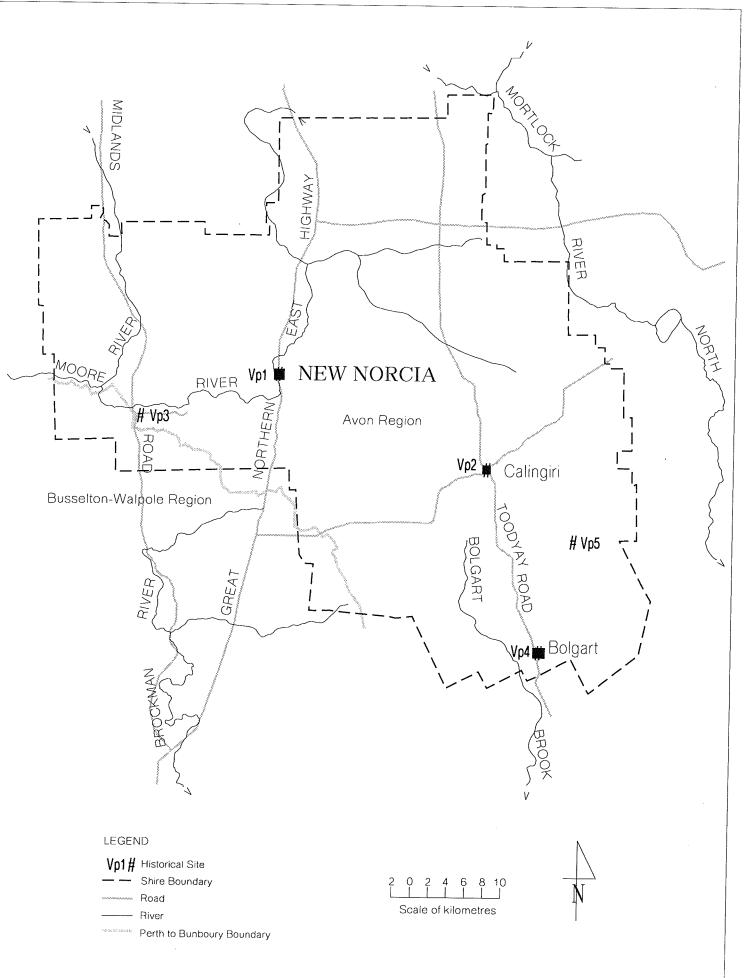












HISTORICAL ASSOCIATIONS BETWEEN EUROPEAN PEOPLE AND WETLANDS AND RIVERS IN THE SHIRE OF VICTORIA PLAINS

