

OSBORNE PARK SWAMPS/JACKADDER LAKE

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- Iveson, J B (1979), Salmonella infections in Silver Gulls in Western Australia, West Australian Health Surveyor. Vol 1, p 5-14.
- Sinclair, R (1982), An ecological study of the Lakes Gwelup and Carine. Unpublished thesis towards B Sc Degree, Murdoch University, Western Australia.
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8.7 OSBORNE PARK SWAMPS

An extensive area of swampland is situated in the localities of Balcatta, Stirling and Osborne Park. These swamplands were developed as market gardens prior to World War 1 (Miller, 1980). Teakle and Southern (1973) describe the soils of Joondanna and Yambago Marshes in the area, with passing reference to land uses.

A large area of swamp in Stirling was filled using the sanitary land-fill technique. Bestow (1981) discussed the hydrogeology of the Gwelup area (see also Section 8.1).

These swamplands are being increasingly assimilated into the urban area.

8.7.(a) REFERENCES

- Bestow, T T (1981), The influence of sanitary landfill on groundwater quality at Hertha Road, Stirling pp 295-308. In Groundwater Resources of the Swan Coastal Plain, 1981. Edit. B R Whelan. CSIRO, Australia.
- Miller, Connie (1980), 'After Summer Merrily'. Fremantle Arts Centre Press, Western Australia.
- Teakle, L J H and Southern, B L (1973), The peat soil and related soils of Western Australia, Journ Agric Western Australia, 14 pp 332-358.

8.8 JACKADDER LAKE

m42

8.8.1 GENERAL INFORMATION

LOCAL AUTHORITY: City of Stirling
MRS ZONE: Urban
RESERVE NUMBERS: 27766, 27697
PURPOSE: Recreation
MANAGEMENT: City of Stirling
SYSTEM 6 RECOMMENDATION: M42
WAC CLASSIFICATION: modified lake
WATER RESERVE: n/a
DRAINAGE: Main drainage; local drainage, pumping station

8.8.2 PHYSIOGRAPHY AND GEOLOGICAL SETTING

Jackadder Lake is situated in lake deposits on the western side of the Karrakatta soil association. The topography shows a steep rise to a ridge of coastal limestone on the west; low relief on the eastern side indicates a relationship between Jackadder, Herdsman Lake and the Osborne Park Swamps.

8.8.3 AREAS

Area bounded by Jackadder Way, Blackbutt Road,
 Birchwood Avenue & Rosewood Avenue 13.80 ha
 Area of water body (including island) 7.30 ha
 Area of island 0.12 ha

8.8.4 HYDROLOGY (Figure 8.13)

Jackadder functions as a compensating basin in the main drainage system of the region as well as receiving local drainage. It is thus recharged largely by surface inflow with controlled water levels. No water level record is available.

8.8.5 WATER QUALITY

No water quality data are available. The lake is subject to blooms of blue-green algae in spring and autumn and there have been bird deaths from algal poisoning or botulism on the lake.

8.8.6 LAND USE

Jackadder Lake was used for agriculture in the past. It is now a modified lake within grassed parkland with introduced trees managed by the City of Stirling. A small island has been constructed as a roosting place for waterbirds. Model boats provide some active recreation. Feeding swans and ducks is a popular activity on the lake margins.

The lake is surrounded by residential development.

8.8.7 VEGETATION (Figure 8.12)

The lake is surrounded by irrigated grass with introduced trees. There are limited fringing sedges on the margins and on the island.

8.8.8 FAUNA

Observations on the bird life of the lake have been made by the RAOU in its Metropolitan Bird Project.

The lake is used by large numbers of common waterbirds including black duck, black swans, coots, introduced ducks and seagulls.

It is likely that birds, particularly swans, move between Jackadder, Herdsman and Monger and that Jackadder should not be considered in isolation from these other water bodies.

The lake is routinely treated with pesticide to kill the larvae of chironomid midges which breed in the lake.

NO REM JEC

JACKADDER LAKE

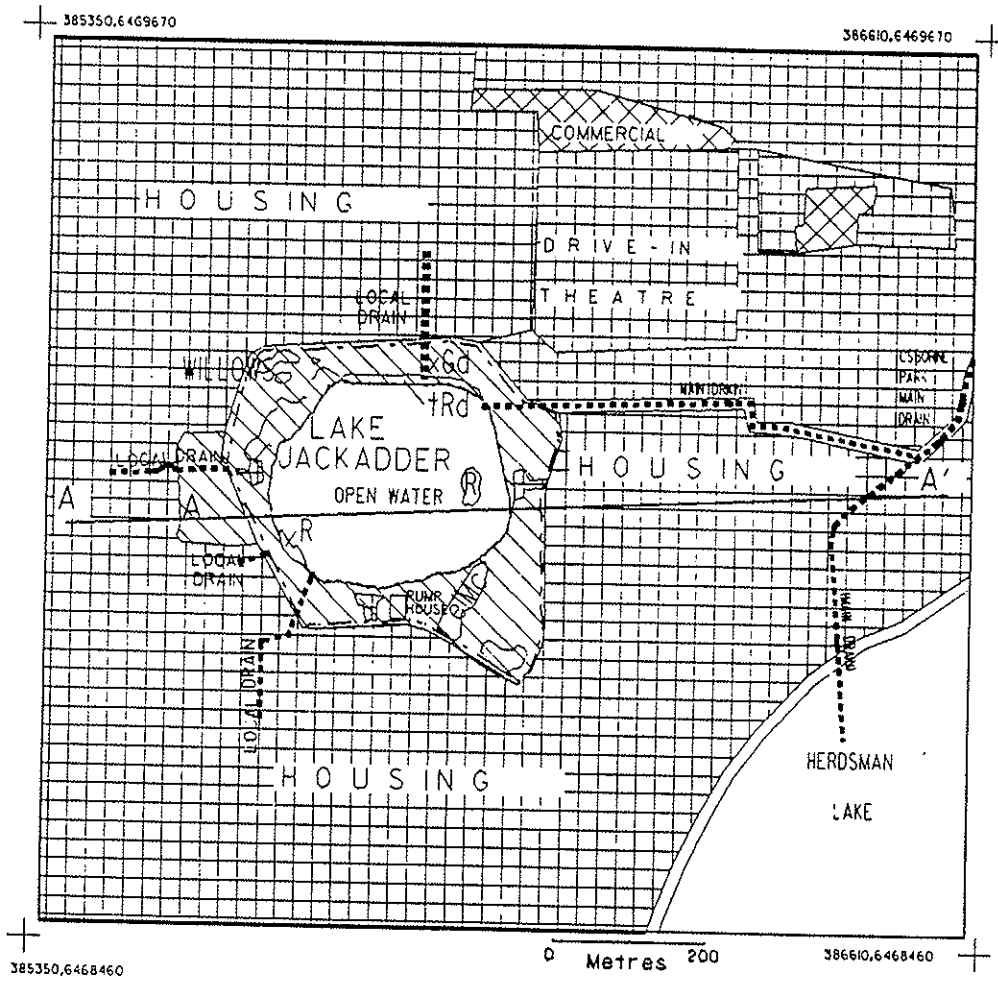


Figure 8.12 Jackadder Lake: plant communities and surrounding land use.

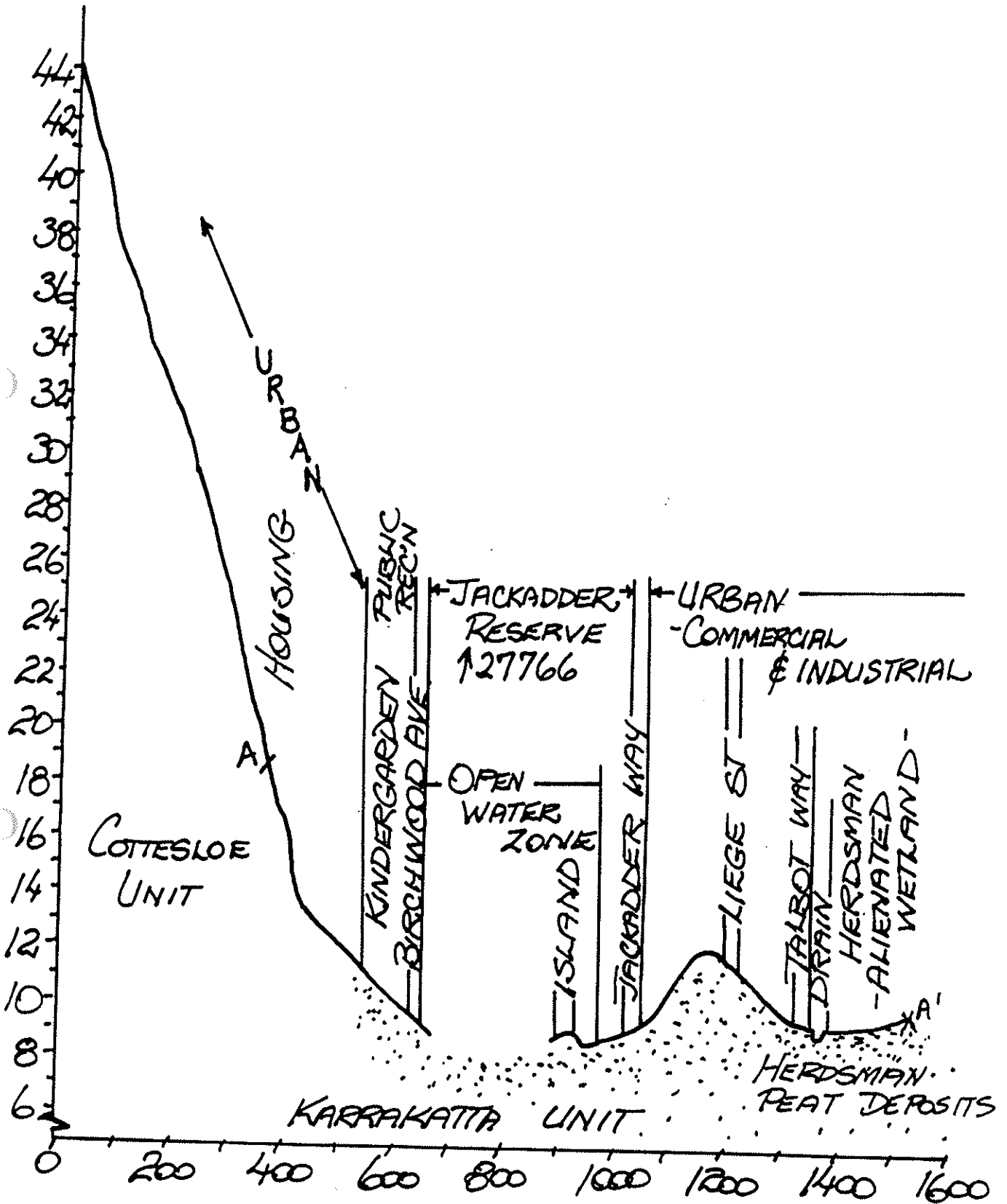


Figure 8.13 Jackadder Lake: diagrammatic cross-section.



PERESON ST

JAN SAUNDERS DR

MITCHELL FREEWAY

LIVE MONKEY

WATER TOWER



R. A. O. U. TRACKING DATABASE

23/06/96

PARK SIGHTINGS REPORT

Page No.

1

Jackadder Lake (M42)

ORDER:	REF:	BIRD NAME		NO. SIGHTINGS
0018	0216	Blue-billed Duck	3	1
0019	0217	Musk Duck	3	1
0022	0203	Black Swan		1
0032	0208	Pacific Black Duck		1
0041	0061	Australasian Grebe		1
0135	0106	Australian Pelican		1
0205	0056	Dusky Moorhen	3	1
0208	0059	Eurasian Coot		1
0297	0125	Silver Gull		1
0326	0988	Laughing Turtle-Dove		1
0359	0273	Galah		1
0386	0294	Australian Ringneck		1
0537	0638	Red Wattlebird		1
0561	0608	Singing Honeyeater		1
0583	0597	Brown Honeyeater		1
0671	0415	Magpie-Lark		1
0676	0364	Willie Wagtail		1
0698	0705	Australian Magpie		1
0706	0930	Australian Raven		1
0763	0357	Welcome Swallow		1
0765	0359	Tree Martin		1

*** END OF REPORT ***

(3) 3

SUMMARY REPORT

TOTAL BIRDS SIGHTED # 21

TOTAL NUMBER OF CARDS # 1

*** END OF SUMMARY ***

LAKE



M42 Jackadder Lake, Woodlands
City of Stirling Management Plan.

Friends Advocate Management

Other Names:

Specific Study/studies Miscellaneous studies

Flora

Vegetation Map 1 2 3

Flora list 1 2 3 4

Significant Taxa done / suitable / doubtful

Fauna

Mammals	1	2	
Birds	1	2	RAOU
Reptiles and Amphibia	1	2	
Invertebrates	1	2	

Vegetation Condition Map Sites Comment

Disturbance Factors Comment Management

Swan Coastal Plain Floristic Survey

AHC: National Estate- Listed / Interim / Nominated / Notified NT (WA): Heritage Classification

Notes

M42 Jackadder Lake, Woodlands
City of Stirling Management Plan.

M42.1 Management plan prepared by City
of Stirling for the area is endorsed.

Implemented

Endorsement.

SHEET 1: System 6 - ~~REPORT~~ ^{VERBAL} Information Search

Date 3/6/94

Please circle the appropriate response or respond in the space provided.

Area M ⁴² Name	<u>Jackadder Lake</u>		
Title			
Published/Unpublished	Date		
Author/s	<u>Local Contact</u>		
Location of Publication			
Purpose (why was the report prepared?)			
Government			
Corporate			
Community Group			
Management Plan			

Soils			
Units	mapped	described	referenced

Landscape			
Features	described	referenced	

Flora			
Vegetation Map			
Units	Site based (no)		
Mapped			
Veg Units	Comparable Heddle <i>et al</i>	Compared Heddle <i>et al</i>	Unit not mapped by Heddle <i>et al</i>
Flora list			
Timing	%completion	Significant Taxa	
	Trees Shrubs Herbs Sedges	Weeds	DRF CALM Priority Other

Fauna			
Timing	%completion	Significant Taxa	
	Mammals	Birds	Sched1 Sched2 Other
	Reptiles	Invertebrates	

Vegetation Condition			
Site based	Mapped	Units	
Disturbance Factors			
Phytophthora	observed	Other	incidental
	tested		itemised