

Wetland Project Data Summary			
Student Initials:	Student Number:	Demonstrator Group : A (Wednesday)	
LOCATION DETAILS			
Name of waterbody	Booragoon lake		
Longitude	90.4E	Latitude	53.8N
Date of sampling	10/3/04	Season	Autumn
Weather at time of sampling	Fine and sunny; 29°C with sparse cirrus cloud and a breeze; no rain was recorded in the past 24 hours		
Classification & water regime		Comments	
Category of wetland (Undisturbed, created, urban, agricultural, coloured, saline, acidic, etc)	Semi- disturbed, natural urban wetland		
Semeniuk Vegetation Classification	zoniform		
Water regime (permanent, seasonal, episodic)	Permanent	Water level varies with season but is present all year round with the rare exceptions of anomalies	
Mean depth of sampling sites (X± SE) (n)	9.5 ± 7.1	One site had no water, which dragged the average down considerably (4 sites)	
Estimated maximum depth of wetland	30cm	This summer was an anomalous year and water level is extra low; also much deeper in winter	
Soil association	Bassendean Dunes		
Sediment types	Mud and silt	Probably detritus also	
Water Quality			
Temperature °C	28.5	Ranged from 16.2 to 35.2 (19°C difference)	
pH (X± SE) (n)	8.65 ± 0.11	(4 sites)	
conductivity (µS/cm) (X± SE) (n)	5210 ± 250	(4 sites)	
gilvin (g440/m) (X± SE) (n)	77.99 ± 14.50	Range: 44.22 – 164.43 (4 sites)	
turbidity (NTU) (X± SE) (n)	225 ± 23.1	(4 sites)	
Secchi disc (m) (n)	0.074 ± 0.007	(4 sites)	
P04 (µg/l) (n)	4750 ± 845	(4 sites)	
NH4 (µg/l) (n)	2290 ± 127.5	(4 sites)	
N03 (µg/l) (n)	1100 ± 273.3	(3 sites)	
chlorophyll a (µg/l) (n)	400 ± 84	(3 sites)	
Aquatic Plants			
Total no. of species	8		
Total no. of macrophyte species	0		
Total no. of algal species	8		
Names of most abundant macrophyte taxa			
Names of most abundant algal taxa	Chlamydomonas, Microcystis		
Total per cent cover	95%		
Percent of wetland area covered	95%		
Exotic index	0		
Health (excellent/average/poor)	Poor	Would not normally be so bad (probably average)	
Fringing Vegetation			
No. of plant communities	1		
Percent of wetland area covered	67	Averaged of estimated data	
Dominant community 1:			

Percent of wetland area covered	60	
Total number of species	16	
Names of most abundant taxa	Maleleuca raphiophylla Cassytha glabella Paspalum distichum	
Structure index	2	
Total % cover (up to 300%)	118	
Exotic index	62	Data sets range from 0 – 100%
Health (excellent/average/poor)	Poor/average	
<i>Dominant community 2:</i>		
Percent of wetland area covered		
Total number of species		
Names of most abundant taxa		
Structure index		
Total % cover (up to 300%)		
Exotic index		
Health (excellent/average/poor)		
Terrestrial Vegetation		
No. of plant communities	2	
Percent of wetland perimeter covered	75%	
<i>Dominant community</i>		
Percent of wetland perimeter covered	70	
Total number of species	18	
Names of most abundant taxa	<i>Eucalyptus calophylla</i> <i>Eucalyptus marginata</i> Melaleuca. raphiophylla Persicara decipiens	
Structure index	2	
Total % cover (up to 300%)	240%	Seems very high for an urban wetland!
Exotic index	53.5%	
Health (excellent/average/poor)	average	Gr AA had high exotic index and “excellent” health. Am I missing something or are they?
Aquatic Invertebrates		
Mean no. of taxa (X± SE) (n)	2.5 ± 0.7	(2 sites) one group did not complete this section and another had no water to analyse
Names of most abundant taxa	Corixidae Chironomidae Hemiptera	
Mean no. of predatory E) (n)	2	(data for one site only)
Indicator species present	Chironomidae Corixidae	
Dominance of Insecta vs Crustacea	Insecta	
State (clear, macrophyte-dominated/ turbid , phytoplankton dominated/ clear, benthic mat dominated)	turbid phytoplankton dominated	
Human Impacts		
Disturbance (high/med/low):in water	med	
Disturbance (high/med/low):in fringing vegetation	med	Some litter, drains, cleared for roadways, boardwalk, high exotic species index
Number of drains	4	