

**Table A1. Aquatic invertebrate taxa used for the assessment of richness and endemism in wetlands on the Swan Coastal Plain**

Taxa identified to the species level have designated distributions (W, widespread; RE, regional endemic; LE local endemic). TUR, taxonomically unresolved

Higher taxa	Sub/family	Species	Higher taxa	Sub/family	Species
PORIFERA				Phreodrilidae	sp. or spp.
CNIDARIA		<i>Hydra</i> sp. or spp.			<i>Insulodrilus ?lacustris</i> W
Hydrozoa				Tubificidae	sp. or spp.
TURBELLARIA	TUR	sp. or spp.			? <i>Aulodrilus</i> sp.
	Catenulida	<i>Stenostomum</i> sp. or spp.			<i>Branchiura sowerbyi</i> W
	Dugesiiidae	sp. or spp.			<i>Antipodrilus davidis</i> W
	Macrostomida	<i>Macrostomum</i> sp. or spp.			<i>Limnodrilus hoffmeisteri</i> W
	Dalyellioida	sp.			<i>Potamothrix bavaricus</i> W
	Kalyptorhynchia	<i>Gyratrix hermaphroditus</i> W			<i>Tubifex tubifex</i> W
	Temnocephalidae	sp. or spp.	Hirudinea	TUR	sp. or spp.
		<i>Temnocephala</i> sp.		Erpobdellidae	sp. or spp.
	Typhloplanidae sp.			Glossiphoniidae	sp. or spp.
NEMERTINI		<i>Prostoma graecense</i> W		Richardsonidae	sp. or spp.
ROTIFERA		sp. or spp.	ARANEAE	TUR	sp. or spp.
NEMATODA	TUR	sp. or spp.	ACARINA	TUR	sp. or spp.
MOLLUSCA			Mesostigmata		sp. or spp.
GASTROPODA			Acaridida		Acaridae sp.
	Pomatiopsidae	<i>Coxiella striatula</i> RE	Astigmata		sp. or spp.
	Hydrobiidae	sp.	Oribatida		sp. or spp.
		<i>Potamopyrgus</i> sp.			<i>Trhypochthoniellus</i> sp.
	Ancylidae	<i>Ferrissia</i> sp. or spp.		Nothroidea	sp. or spp.
	Lymnaeidae	sp. or spp.			<i>Trimalaconothrus</i> sp.
		<i>Pseudosuccinea columella</i> W	Prostigmata	Halacaridae	sp. or spp.
	Succineidae	<i>Succinea</i> sp.			<i>Lobohalacarus weberi</i> W
	Physidae	sp. or spp.			<i>Lobohalacarus</i> sp. or spp.
		<i>Physa</i> sp. or spp.			<i>Soldanellonyx monardi</i> W
		<i>Physa acuta</i> W			<i>Soldanellonyx</i> sp.
	Planorbidae	sp. or spp.		Arrenuridae	sp. or spp.
		<i>Glyptophysa</i> sp.			<i>Arrenurus balladoniensis</i> W
		<i>Gyraulus</i> sp. or spp.		Eylaidae	sp. or spp.
		<i>Helisoma duryi</i> W			<i>Eylais</i> sp.
		<i>Isidorella newcombi</i> W		Hydrachnidae	sp. or spp.
		<i>Physastra</i> sp. or spp.			<i>Hydrachna</i> sp.
MOLLUSCA				Hydracarina	<i>Gen. nov. (Thryptaturus)</i> sp.
BIVALVIA					nov. LE
	Hyriidae	<i>Westralunio carteri</i> RE			<i>Tillia</i> sp.
	Sphaeriidae	sp. or spp.		Anisitsiellidae	<i>Anisitsiellides</i> sp. nov. LE
		<i>Musculium kendricki</i> RE		Hydrodromidae	<i>Hydrodroma</i> sp.
TARDIGRADA		sp. or spp.		Hydrozetidae	<i>Hydrozetes</i> sp. or spp.
Eutardigrada	Hypsibiidae	<i>Hypsibius</i> sp.		Limnocharidae	sp. or spp.
ENTOGNATHOUS		sp.			<i>Limnocharis australica</i> W
HEXAPOD				Lymnesiidae	sp. or spp.
ANNELIDA		sp. or spp.			<i>Limnesia</i> sp. or spp.
Aphanoneura	Aeolosomatidae	sp. or spp.		Oxidae	sp. or spp.
		<i>Aeolosoma</i> sp. or spp.			<i>Oxus</i> sp.
		<i>Aeolosoma</i> aff. <i>leidyi</i> W		Pezidae	<i>Peza</i> sp.
		<i>Aeolosoma tracanvorense</i> W		Pionidae	sp. or spp.
Oligochaeta	Enchytraeidae	sp. or spp.			<i>Acercella falcipes</i> W
	Naididae	sp. or spp.			<i>Piona cumberlandensis</i> W
		<i>Pristina</i> sp. or spp.			<i>Piona murleyi</i> W
		<i>Pristina longiseta</i> W			<i>Piona</i> sp.
		<i>Pristina osborni</i> W		Trombidiodea	sp. or spp.
		<i>Pristina jenkinsae</i> W		Unionicolidae	sp. or spp.
		<i>Pristina aequiseta</i> W			<i>Unionicola</i> sp.
		<i>Dero digitata</i> W			<i>Koenikea</i> sp.
		<i>Dero furcatus</i> W			<i>Neumania</i> sp.
		<i>Dero nivea</i> W			<i>Encentridophorus</i> sp.
		<i>Dero</i> sp.	CRUSTACEA	Ostracoda	sp. or spp.
		<i>Nais bretscheri</i> W		Candoniidae	sp. or spp.
		<i>Nais</i> spp.			<i>Candona</i> sp.

(Continued)

Table A 1. (Continued)

Higher taxa	Sub/family	Species	Higher taxa	Sub/family	Species
		<i>Candonopsis tenuis</i> W		Chydoridae Chydorinae	<i>Alonella</i> sp.
		<i>Candonopsis</i> sp.			<i>Alonella clathratula</i> W
	Cyprididae	sp. or spp.			<i>Chydorus</i> cf. <i>sphaericus</i> W
		<i>Candonocypris novaezelandiae</i> W			<i>Chydorus</i> sp.
		<i>Alboa wooroa</i> W			<i>Dunhevedia</i> aff. <i>crassa</i> W
		<i>Sarsocypridopsis aculeata</i> W			<i>Leberis aenigmatusus</i> RE
		<i>Bennelongia australis</i> W			<i>Monope reticulata</i> W
		<i>Bennelongia barangaroo</i> W			<i>Pleuroxus</i> sp.
		<i>Bennelongia</i> sp.			<i>Pseudochydorus globosa</i> W
		<i>Ilyodromus</i> sp. or spp.			<i>Rak obtusus</i> W
		<i>Ilyodromus dikrus</i> W		Bosminidae	sp. or spp.
		<i>Diacyperus spinosa</i> W			<i>Bosmina meridionalis</i> W
		<i>Mytilocypris tasmanica chapmani</i> W			sp. or spp.
		<i>Mytilocypris ambigua</i> W		Daphniidae	sp. or spp.
		<i>Mytilocypris</i> sp.			<i>Ceriodaphnia cornuta</i> W
		<i>Eucypris virens</i> W			<i>Ceriodaphnia laticaudata</i> W
		<i>Cypricerus salinus</i> W			<i>Ceriodaphnia quadrangula</i> W
		<i>Cypricerus</i> spp.			<i>Ceriodaphnia rotunda</i> W
		<i>Cyprinotus edwardi</i> W			<i>Ceriodaphnia</i> sp.
		<i>Strandesia</i> sp.			<i>Daphnia carinata</i> W
		<i>Lacrimicypris kumpar</i> RE			<i>Daphnia angulata</i> W
		<i>Heterocypris incongruens</i> W			<i>Daphnia lumholtzi</i> W
	Cypridopsidae	sp. or spp.			<i>Daphnia wankeltae</i> W
		<i>Cypretta baylyi</i> W			<i>Daphniopsis pusilla</i> W
		<i>Cypretta</i> spp.			<i>Daphniopsis</i> sp.
		<i>Cypretta</i> aff. <i>globosa</i> RE			<i>Scapholeberis kingi</i> W
		<i>Cypridopsis funebris</i> W			<i>Scapholeberis</i> sp.
	Darwinulidae	<i>Darwinula</i> sp. or spp.			<i>Simocephalus exspinosus</i> W
	Gomphodellidae	sp. or spp.			<i>Simocephalus exspinosus</i> <i>australiensis</i> W
		<i>Gomphodella</i> sp. nov			<i>Simocephalus latirostris</i> W
		<i>Gomphodella maia</i> W			<i>Simocephalus vetulus</i> W
	Ilyocyprididae	sp. or spp.			<i>Simocephalus</i> sp.
		<i>Ilyocypris australiensis</i> W		?Podonidae	sp. or spp.
	Lymnocytheridae	sp. or spp.		Moinidae	sp. or spp.
		<i>Limnocythere dorsicula</i> W			<i>Moinodaphnia macleayi</i> W
		<i>Limnocythere porphyretica</i> W			<i>Moina</i> sp.
		<i>Limnocythere mowbrayensis</i> W			sp. or spp.
		<i>Paralimnocythere</i> sp.		Macrothricidae	<i>Echinisca capensis</i> <i>capensis</i> W
	Notodromadidae	sp. or spp.			<i>Echinisca</i> sp.
		<i>Newnhamia fenestrata</i> W			<i>Macrothrix breviseta</i> W
		<i>Newnhamia insolita</i> W			<i>Macrothrix</i> sp.
		<i>Newnhamia</i> sp.			<i>Neothrix armata</i> W
		<i>Kennethia</i> sp.			sp. or spp.
CRUSTACEA	Cladocera Chydoridae	sp. or spp.		Ilyocryptidae	<i>Ilyocryptus ?sordidus</i> W
		?gen. nov. (cf. <i>Rhynchochydorus</i> )			<i>Ilyocryptus spinifer</i> W
	Chydoridae Aloninae	sp. or spp.			<i>Ilyocryptus</i> sp. or spp.
		<i>Alona</i> aff. <i>diaphana</i> W			sp. or spp.
		<i>Alona</i> sp.		Sididae	<i>Latonopsis australis</i> W
		<i>Archepleuroxus baylyi</i> W			<i>Latonopsis brehmi</i> W
		<i>Biapertura</i> sp. or spp.	CRUSTACEA	Conchostraca	sp. or spp.
		<i>Biapertura</i> aff. <i>affinis</i> W			<i>Lynceus</i> sp.
		<i>Biapertura setigera</i> W			<i>Eulimnadia</i> sp.
		<i>Biapertura kendallensis</i> W			<i>Cyzicus</i> sp.
		<i>Biapertura rigidicaudis</i> W	CRUSTACEA	Amphipoda	sp. or spp.
		<i>Camptocercus australis</i> W			<i>Hurleya</i> sp. LE
		<i>Graptoleberis testudinaria</i> W			sp. or spp.
		<i>Graptoleberis testudinaria</i> <i>occidentalis</i> RE		Ceinidae	<i>Austrochiltonia subtenuis</i> W
		<i>Kurzia latissima</i> W			sp. or spp.
		<i>Leydigia ciliata</i> W		Perthiidae	<i>Perthia</i> sp. or spp. RE
		<i>Leydigia leydigi</i> W		Paramelitidae	sp.

(Continued)

Table A1. (Continued)

Higher taxa	Sub/family	Species	Higher taxa	Sub/family	Species
CRUSTACEA	Isopoda	sp. or spp.			<i>Anisops</i> sp. or spp.
	Amphisopidae	<i>Paramphisopus palustris</i> RE			<i>Anisops occipitalis</i> W
	Janiridae	sp. or spp.			<i>Anisops hyperion</i> W
	Oniscidae	sp. or spp.			<i>Anisops thienemanni</i> W
CRUSTACEA	Copepoda				<i>Anisops gratus</i> W
	Calanoida				<i>Anisops elstoni</i> W
	Centropagidae	sp. or spp.			<i>Anisops baylii</i> RE
		<i>Calamoecia tasmanica</i> RE			<i>Anisops stali</i> W
		<i>Calamoecia attenuata</i> RE			<i>Paranisops endymion</i> RE
		<i>Boeckella bispinosa</i> W			<i>Notonecta handlirschi</i> W
		<i>Boeckella geniculata</i> RE		Veliidae	<i>Microvelia</i> sp.
		<i>Boeckella robusta</i> RE			sp. or spp.
		<i>Boeckella symmetrica</i> W	COLEOPTERA	Carabidae	sp. or spp.
		<i>Boeckella triarticulata</i> W	Polyphaga	Chrysomelidae	spp.
		<i>Hemiboeckella andersonae</i> RE		Curculionidae	spp.
Harpacticoida				Hydraenidae	sp. or spp.
	Canthocamptidae	sp. or spp.			<i>Hydraena</i> sp.
Cyclopoida					<i>Ochthebius</i> sp.
	Cyclopidae			Hydrophilidae	sp. or spp.
		<i>Microcyclops</i> sp. or spp.			<i>Anacaena</i> sp.
		<i>Mesocyclops</i> sp.			<i>Berosus discolour</i> (A) RE
		<i>Macrocyclops</i> sp. or spp.			<i>Berosus pulchellus</i> W
		<i>Mixocyclops</i> sp. or spp.			<i>Berosus</i> spp. (L)
		<i>Metacyclops</i> sp.			<i>Berosus</i> spp. (A)
		<i>Australocyclops</i> sp.			<i>Enochrus elongatus</i> W
		<i>Ectocyclops rubescens</i> W			<i>Enochrus</i> spp. (A)
		<i>Eucyclops</i> sp.			<i>Hydrophilus latipalpus</i> W
		<i>Paracyclops chiltoni</i> W			<i>Hydrophilus albipes</i> W
		<i>Paracyclops</i> sp. or spp.			<i>Hydrochus</i> sp. or spp.
		<i>Paracyclops 'Eucyclops linderi'?</i>			<i>Paracymus pygmaeus</i> W
CRUSTACEA	Palaemonidae	sp. or spp.			<i>Limnoxenus</i> sp.
Decapoda					<i>Limnoxenus macer</i> W
		<i>Palaemonetes australis</i> RE			<i>Limnoxenus zealandicus</i> W
	Parastacidae	sp. or spp.			<i>Helochares tenuistriatus</i> RE
		<i>Cherax quinquecarinatus</i> RE		Sphaeridiinae	<i>Coelostoma ?fabricii</i> W
		<i>Cherax tenuimanus</i> RE			<i>?Coelostoma</i> sp.
HETEROPTERA	Saldidae	sp. or spp.		Dryopoidea	sp. or spp.
Nepomorpha	Corixidae	sp. or spp.		Ptilodactylidae	sp. or spp.
		<i>Agraptocorixa hirtifrons</i> W		Scirtidae (form.	spp.
		<i>Agraptocorixa eurynome</i> W		Helodidae)	
		<i>Agraptocorixa parvipunctata</i> W		Ptiliidae	sp. or spp.
		<i>Agraptocorixa</i> sp. or spp.		Limnichidae	sp. or spp.
		<i>Micronecta robusta</i> W		Noctuidae	sp. or spp.
		<i>Micronecta</i> sp. or spp.		Staphylinidae	sp. or spp.
		<i>Sigara truncatipala</i> W	COLEOPTERA		
		<i>Sigara (Tropocorixa) mullaka</i> RE	Adephaga		sp. or spp.
		<i>Sigara (Tropocorixa) spp.</i>		Dytiscidae	
		<i>Diaprepocoris barycephala</i> W			<i>Hyphydrus elegans</i> W
		<i>Diaprepocoris personata</i> W			<i>Hyphydrus</i> sp.
	Gelastocoridae	<i>Nerthra</i> sp.			<i>Uvarus pictipes</i> W
	Pleididae	sp. or spp.			<i>Sternopriscus maedfooti</i> W
		<i>Plea brunni</i> W			<i>Sternopriscus multimaculatus</i> W
Gerrormorpha	Gerridae	sp. or spp.			<i>Sternopriscus brownii</i> RE
	Hebridae	sp. or spp.			<i>Sternopriscus minimus</i> RE
	Hydrometridae	<i>Hydrometra</i> sp.			<i>Sternopriscus marginatus</i> RE
	Mesoveliidae	sp. or spp.			<i>Sternopriscus</i> sp. or spp.*
	Nepidae	<i>Ranatra</i> sp.			<i>Necterosoma</i> sp.
	Notonectidae	sp. or spp.			<i>Necterosoma darwini</i>
		<i>Enithares</i> sp.			(A and L) RE

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Table A1. (Continued)

Higher taxa	Sub/family	Species	Higher taxa	Sub/family	Species		
EPHEMEROPTERA		<i>Spencerhydrus pulchellus</i> RE	TRICHOPTERA	Ecnomidae	sp. or spp.		
		<i>Spencerhydrus</i> sp.?			<i>Ecnomus turgidus/pansus</i> (L) W		
		<i>Allodessus bistrigatus</i> W			<i>Ecnomina</i> sp.		
		<i>Allodessus</i> sp.			Hydroptilidae	sp. or spp.	
		<i>Gibbidessus</i> sp.				<i>Acrioptila globosa</i> (L) RE	
		<i>Limbodessus</i> sp. or spp.				<i>Hellyethira simplex</i> RE	
		<i>Liodessus dispar</i> RE			Leptoceridae	<i>Hellyethira malleoforma</i> W	
		<i>Liodessus ornatus</i> RE				<i>Hellyethira</i> sp. A	
		<i>Liodessus</i> sp.				Genus I (Grown)?	
		<i>Liodessus inornatus</i> RE				<i>Oxyethira</i> sp.	
		<i>Bidessus</i> sp.				sp. or spp.*	
		<i>Antiporus femoralis</i> W				<i>Notalina spira</i> W	
		<i>Antiporus gilberti</i> (A) W				<i>Notalina fulva</i> W	
		<i>Antiporus</i> spp. (A)				<i>Oecetis</i> sp. or spp.	
		<i>Antiporus</i> sp. (L)				<i>Triplectides australis</i> W	
		<i>Megaporus</i> sp. 1 (L)				ODONATA	sp. or spp.
		<i>Megaporus</i> sp. 2			Anisoptera		
		<i>Megaporus solidus</i> RE			Aeshnidae		<i>Aeshna brevistyla</i> W
		<i>Megaporus howitti</i> W			Corduliidae/ Hemicorduliidae		<i>Hemianax papuensis</i> W
		<i>Rhantus suturalis</i> W					sp. or spp.
		<i>Rhantus</i> sp. or spp.			Gomphidae		<i>Hemicordulia tau</i> W
		<i>Lancetes lanceolatus</i> W					<i>Hemicordulia australiae</i> W
		<i>Lancetes</i> sp.					<i>Procordulia affinis</i> W
		<i>Laccophilus</i> sp.			Libellulidae		sp. or spp.
		<i>Eretes australis</i> W					<i>Austrogomphus</i> sp.
		<i>Homeodytes atratus</i> W				<i>Austrogomphus lateralis</i> RE	
		<i>Homeodytes</i> sp.			Macrodiplectidae Synthemidae	sp. or spp.	
		<i>Homeodytes scutellaris</i> (A and L) W				<i>Orthetrum caledonicum</i> W	
		<i>Hydaticus</i> sp.				<i>Pantala flavescens</i> W	
		<i>Hyderodes crassus</i> RE				<i>Diplacodes bipunctata</i> W	
		<i>Copelatus ater</i> RE				<i>Austrothemis nigrescens</i> W	
		<i>Copelatus ferrugineus</i> W				sp. or spp.	
		<i>Copelatus</i> sp.				sp. or spp.	
<i>Cybister tripunctatus</i> W	<i>Synthemis ?leachii</i> RE						
<i>Cybister</i> sp.	Zygoptera	sp. or spp.					
<i>Chostonectes</i> sp.		Coenagrionidae sp. or spp.					
<i>Chostonectes gigas</i> W			<i>Xanthagrion erythroneurum</i> W				
<i>Paroster niger</i> RE	<i>Ischnura heterosticta</i> W						
<i>Paroster</i> sp. A	Lestidae	<i>Ischnura aurora</i> W					
<i>Paroster</i> sp. B		<i>Austroagrion cyane</i> W					
<i>Platynectes</i> sp. or spp.		sp. or spp.					
Hydroporinae		Hydroporinae	sp. or spp.				
			Bidessini	<i>Austrolestes analis</i> W			
				<i>Austrolestes annulosus</i> W			
			Gyrinidae	<i>Austrolestes io</i> W			
				<i>Austrolestes psyche</i> W			
			Haliplidae	<i>Austrolestes</i> sp. or spp.			
				sp. 1	sp. or spp.		
	<i>Haliplus australis</i> W		Megapodagrionidae	<i>Argiolestes pusillus</i> W			
	<i>Haliplus fuscatus/gibbus</i> W			sp. or spp.			
	<i>Hydrocoptus subfasciatus</i> W		COLLEMBOLA	Unidentified			
sp. or spp.	LEPIDOPTERA	Pyralidae					
Baetidae		Baetidae	sp. or spp.				
	<i>Cloeon</i> sp. 1		Nymphulinae				
	sp. or spp.		DIPTERA	Nematocera			
Caenidae	Caenidae	sp. or spp.					
		<i>Tasmanocoenis</i> sp. 1	Ceratopogonidae	<i>Nilobezzia</i> sp. or spp.			
		<i>Tasmanocoenis tillyardi</i> W		<i>Culicoides</i> sp. or spp.			
sp. or spp.	<i>Bezzia</i> sp.						
PLECOPTERA	Leptophlebiidae	sp. or spp.		<i>Clinohelea</i> sp.			
	Gripopterygidae	sp. or spp.					

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Table A1. (Continued)

Higher taxa	Sub/family	Species	Higher taxa	Sub/family	Species
		<i>Monohelea</i> sp.			<i>Polypedilum</i> sp.
		<i>Palpomyia</i> sp.			<i>Larsia</i> ? <i>albiceps</i> W
		<i>Dasyhelea</i> sp.		Culicidae	sp. or spp.
		<i>Macropelopia dalyupensis</i> W			<i>Aedes alboannulatus</i> W
		<i>Harrisius</i> sp.			<i>Aedes macintoshi</i> W
Chaoborinae		<i>Limnophyes pullulus</i> W			<i>Aedes stricklandi</i> W
		sp. or spp.			<i>Anopheles</i> ( <i>Cellia</i> ) sp.
Chironominae		<i>Promochlonyx australiensis</i> W			<i>Anopheles</i> sp.
		sp. or spp.			<i>Anopheles annulipes</i> W
		<i>Ablabesmyia notabilis</i> W			<i>Anopheles atratipes</i> W
		<i>Chironomus alternans</i> W			<i>Culiseta atra</i> RE
		<i>Chironomus occidentalis</i> W			<i>Culex annulirostris</i> W
		<i>Chironomus tepperi</i> W			<i>Culex australicus</i> W
		<i>Kiefferulus martini</i> W			<i>Culex globocoxitus</i> W
		<i>Kiefferulus intertincus</i> W			<i>Culex</i> sp.
		<i>Dicrotendipes conjunctus</i> W		Psychodidae	sp. or spp.
		<i>Cryptochironomus griseidorsum</i> W		Simuliidae	sp. or spp.
		<i>Paratanytarsus grimmii</i> W		Tanypodinae	sp. or spp.
		<i>Paratanytarsus parthenogeneticus</i> W			<i>Procladius villosimanus</i> W
		<i>Tanytarsus barbitarsis</i> W			<i>Procladius paludicola</i> W
		<i>Tanytarsus fuscithorax</i> W			<i>Coelopynia pruinosa</i> W
		<i>Tanytarsus</i> sp.			<i>Paramerina levidensis</i> W
		<i>Cladopelma curtivalva</i> W			<i>Paramerina parva</i> W
		? <i>Parachironomus</i>			<i>Apsectrotanypus</i> ? <i>maculosus</i> W
Orthocladiinae		sp. or spp.			
		<i>Cricotopus</i> sp.		Thaumeleidae	sp. or spp.
		<i>Corynoneura scutellata</i> W	Brachycera	Tipulidae	sp. or spp.
		<i>Corynoneura</i> sp.		Dolichopodidae	sp. or spp.
		<i>Paralimnophyes pullulus</i> W		Empididae	sp. or spp.
		<i>Paratrichocladius</i> sp.		Ephydriidae	sp. or spp.
		<i>Polypedilum nubifer</i> W		Muscidae	sp. or spp.
		<i>Polypedilum</i> aff. K3 'Baroalba'?		Sciomyzidae	sp. or spp.
		<i>Polypedilum serosum</i> W		Stratiomyidae	sp. or spp.
				Tabanidae	sp. or spp.