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Australian Government

Queensland  
Wetlands Program



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# **Wetland Mapping and Classification Methodology**

## **Overall Framework**

### **A Method to Provide Baseline Mapping and Classification for Wetlands in Queensland**

**VERSION 1.2**

**Attachment 2**

**Hydrophytes  
(Including all Sub-species)**

**Provided by the Queensland Herbarium (V2090504)**

# Wetland Mapping and Classification Methodology

		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Abildgardia	spp.					x					
Acacia	baueri subsp. baueri							x			
Acacia	stenophylla								x		
Acacia	suaveolens							x			
Acacia	ulicifolia							x			
Acanthus	ebracteatus		x								
Acanthus	ilicifolius		x								
Acrostichum	aureum		x				x				
Acrostichum	speciosum		x				x				x
Actinoscirpus	grossus					x					
Aegialitis	annulata		x								
Aegiceras	corniculatum		x								
Aeschynoneme	indica								x	x	
Agropyron	spp.				x					x	
Agrostis	spp.				x						
Aldrovanda	vesiculosa	x									
Alisma	plantago-aquatica	x									
Alloteropsis	spp.				x						
Alopecurus	spp.				x						
Alternanthera	philoxeroides	x									
Ammophila	spp.				x						
Amphibromus	nervosus				x						
Anisopogon	spp.				x						
Aotus	lanigera							x			
Aponogeton	bullosus	x									
Aponogeton	elongatus	x									
Aponogeton	proliferus	x									

Wetland Mapping and Classification Methodology

		OBLIGATE Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Aponogeton	queenslandicus	x								
Aponogeton	vanbruggenii	x								
Arundinella	spp.			x						
Arundo	donax	x		x					x	
Aster	spp.								x	
Astonia	australiensis	x								
Athrostylis	aphylla				x					
Avicennia	marina		x							
Avicennia	maritima subsp. australasica		x							
Axonopus	spp.			x						
Azolla	filiculoides	x				x				
Azolla	pinnata	x				x				
Bacopa	monnieri	x						x		
Baeckea	frutescens						x			
Baloskion	pallens				x		x			
Baloskion	spp.				x					
Baloskion	tetraphyllum				x		x			
Banksia	robur						x			
Batrachium	trichophyllum								x	
Baumea	arthrophylla				x					
Baumea	articulata				x					
Baumea	rubiginosa				x		x			
Baumea	spp.				x					
Bergia	ammanioides							x		
Bergia	diacheiron							x		
Bergia	pedicellaris							x		
Bergia	perennis							x		
Bergia	pusilla							x		

# Wetland Mapping and Classification Methodology

		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Bergia	trimera								x		
Blandfordia	grandiflora							x			
Blechnum	indicum	x					x				
Blyxa	aubertii	x									
Blyxa	octandra	x									
Bolboschoenus	caldwellii					x		x			
Bolboschoenus	fluviatilis					x		x			
Bolboschoenus	spp.					x					
Boronia	falcifolia							x			
Boronia	rivularis							x			
Boronia	safrolifera							x			
Brachiaria	mutica	x			x					x	
Brachyachne	spp.				x						
Brasenia	schreberi	x									
Bruguiera	cylindrica		x								
Bruguiera	exaristata		x								
Bruguiera	gymnorhiza		x								
Bruguiera	parviflora		x								
Bruguiera	sexangula		x								
Bulbostylis	spp.					x					
Burchardia	umbellata							x			
Cabomba	caroliniana	x								x	
Caldesia	acanthocarpa	x									
Caldesia	oligococca	x									
Caldesia	parnassifolia	x									
Callistemon	pachyphyllus							x			
Callistemon	viminalis								x		
Callitriche	capricorni	x									

Wetland Mapping and Classification Methodology

		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Callitriche	muelleri	x									
Callitriche	sonderi	x									
Camptostemum	schultzei		x								
Carex	spp.					x					
Casuarina	cunninghamiana								x		
Casuarina	glauca								x		
Caustis	recurvata							x			
Caustis	spp.					x					
Centrolepis	banksii	x									
Centrolepis	exserta	x									
Centrolepis	fascicularis	x									
Centrolepis	strigosa	x									
Ceratophyllum	demersum	x									
Ceratophyllum	muricatum	x									
Ceratopteris	thalictroides	x					x				
Ceriops	decandra		x								
Ceriops	tagal		x								
Chara	spp.	x -alg									
Chenopodium	auriculatum								x		
Chorizandra	spp.					x					
Chrysopogon	fallax				x						
Cladium	procerum					x		x			
Cladopus	queenslandicus	x									
Coleocarya	gracilis					x					
Cotula	coronopifolia	x									
Crassula	helmsii	x									
Crinum	flaccidum								x		
Crinum	pedunculatum								x		

Wetland Mapping and Classification Methodology

		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Cyathochaeta	diandra					x					
Cymbopogon	spp.				x						
Cymodocea	rotundata			x							
Cymodocea	serrulata			x							
Cynodon	spp.				x						
Cynometra	iripa		x								
Cynosurus	spp.				x						
Cyperus	alopecurioides					x					
Cyperus	difformis										
Cyperus	eragrostis										
Cyperus	exaltatus										
Cyperus	involucrauts										
Cyperus	polystachyos										
Cyperus	spp.					x					
Damasonium	minus	x									
Dapsilanthus	spp.					x					
Deyeuxia	spp.				x						
Dicranopteris	linearis var. linearis						x	x			
Digitaria	spp.				x						
Diospyros	ferrea		x								
Dolichandrone	spathacea		x								
Drosera	binata							x			
Drosera	peltata							x			
Drosera	spatulata							x			
Echinochloa	colona				x					x	
Echinochloa	crus-galli				x					x	
Echinochloa	telmatophila				x						
Echinochloa	turneriana				x						

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Eclipta	prostrata								x		
Egeria	densa	x								x	
Eichhornia	crassipes	x								x	
Einadia	hastata										x
Einadia	nutans										x
Elaeocarpus	reticulatus						x				
Elatine	gratioloides	x									
Eleocharis	acuta	x				x					
Eleocharis	dulcis	x				x					
Eleocharis	equisetina	x				x					
Eleocharis	sphacelata	x				x			x		
Eleocharis	spp.	x				x			x		
Elodea	canadensis	x								x	
Elytrophorus	spp.				x						
Empodisma	minus					x					
Enchylaena	tomentosa										x
Enhalus	acoroides			x							
Enydra	fluctuans	x							x		
Epacris	microphylla							x			
Epacris	pulchella							x			
Eragrostis	australasica				x						
Eriocaulon	carsonii	x									
Eriocaulon	setaceum	x							x		
Eriocaulon	spp.								x		
Eucalyptus	camaldulensis								x		
Eucalyptus	microtheca										
Eucalyptus	robusta								x		
Eulalia	fulva				x						

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Eurychordia	complanata					x					
Excoecaria	agallacha		x								
Exocarya	scleroides					x					
Fimbristylis	spp.					x					
Fuirena	spp.					x					
Gahnia	spp.					x					
Gleichennia	dicarpa						x	x			
Gleichennia	mendellii						x	x			
Glossostigma	spp.								x		
Glyceria	maxima				x				x		
Halodule	pinifolia			x							
Halodule	uninervis			x							
Halophila	decipiens			x							
Halophila	minor			x							
Halophila	ovalis			x							
Halophila	spinulosa			x							
Halophila	tricostata			x							
Halosarcia	indica										x
Hemarthria	uncinata				x						
Heritiera	littoralis		x								
Hibiscus	tiliaceus								x		
Holocus	lanatus				x					x	
Hydrilla	verticillata	x									
Hydrocharis	dubia	x									
Hydrocleys	nymphoides	x									
Hydrocotyle	spp.								x		
Hydrocotyle	verticillata								x		
Hypolaena	fastigiata					x					



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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Hypolytrum	spp.					x					
Ipomoea	aquatica	x							x		
Isachne	globosa				x						
Ischeamum	spp.				x						
Isoetes	coromandelina	x					x				
Isoetes	drummondii	x					x				
Isoetes	muelleri	x					x				
Isolepis	fluitans	x				x					
Isolepis	inundata	x				x					x
Isolepis	inundata					x					x
Juncus	aridicola					x					
Juncus	articulatus					x					
Juncus	krausii					x					x
Juncus	spp.					x					
Juncus	usitatus								x		
Largerosiphon	major	x								x	
Leersia	hexandra	x			x						
Lemna	aequinoctialis	x									
Lemna	trisulca	x									
Lepidosperma	spp.					x					
Lepilaena	australis	x									
Lepilaena	bilocularis	x									
Lepironia	articulata					x		x			
Leptocarpus	tenax					x					
Leptochloa	digitata				x						
Leptochloa	fusca				x						
Leptospermum	liversidgei							x			
Leptospermum	semibaccatum							x			

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Lepyrodia	spp.					x					
Lilaeopsis	brisbanica	x									
Lilaeopsis	polyantha										
Limnophila	brownii	x							x		
Liphocarpha	spp.					x					
Lophostemon	suaveolens								x		
Ludwigia	adscendens								x		
Ludwigia	peplodes	x							x		
Ludwigia	spp.								x		
Lumnitzera	littorea		x								
Lumnitzera	racemosa		x								
Luzula	flaccida					x					
Lycopodiella	cernua						x	x			
Lycopodiella	spp.							x			
Lygodium	microphyllum						x		x		
Lythrum	salicaria								x		
Mapania	macrocephala					x					
Marsilea	costulifera	x					x				
Marsilea	crenata	x					x				
Marsilea	drummondii	x					x				
Marsilea	exarata	x					x				
Marsilea	hirsuta	x					x				
Marsilea	mutica	x					x				
Maundia	triglochinosides	x									
Melaleuca	arcana								x		
Melaleuca	argentea								x		
Melaleuca	bracteata								x		
Melaleuca	leucadendra								x		

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Melaleuca	linariifolia								x		
Melaleuca	quinquenervia								x		
Melaleuca	spp.								x		
Melaleuca	thymifolia						x				
Melaleuca	trichostachya								x		
Microstegium	spp.										
Mimosa	pigra								x	x	
Monerma	spp.										
Monochoria	australasica	x									
Monochoria	cyanea	x									
Monochoria	vaginalis	x									
Muehlenbeckia	florulenta								x		
Myriophyllum	spp.	x									
Myrtaceae	spp.								x		
Najas	browniana	x									
Najas	marina	x									
Najas	tenuifolia	x									
Nelumbo	nucifera	x									
Nitella	sp.	x									
Nymphaea	atrans	x									
Nymphaea	caerulea	x									
Nymphaea	elleniae	x									
Nymphaea	gigantea	x									
Nymphaea	gigantea	x									
Nymphaea	immutabilis	x									
Nymphaea	macrosperma	x									
Nymphaea	mexicana	x									
Nymphaea	nouchali	x									

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Nymphaea	pubescens	x									
Nymphaea	violacea	x									
Nymphoides	aurantiaca	x									
Nymphoides	crenata	x									
Nymphoides	elliptica	x									
Nymphoides	exiliflora	x									
Nymphoides	geminata	x									
Nymphoides	indica	x									
Nymphoides	minima	x									
Nymphoides	parvifolia	x									
Nymphoides	quadriloba	x									
Nymphoides	sp.(Hann River J R Clarkson 3109)	x									
Nymphoides	spinulosperma	x									
Nymphoides	triangularis	x									
Nypa	fruticans		x								
Olearia	hygrophila								x		
Osbornia	octodonta		x								
Ottelia	alismoides	x									
Ottelia	ovalifolia	x									
Ottochloa	spp.				x						
Panicum	spp.				x						
Paramapania	parvibractea					x					
Parapholis	spp.				x						
Paspalidium	spp.				x						
Paspalum	distichum				x						
Paspalum	vaginatum				x				x		x
Patersonia	sericea var. sericea							x			
Pectinella	spp.				x						

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Pemphis	acidula		x								
Pennisetum	spp.				x						
Persicaria	spp.								x		
Phaius	spp.								x		
Phalaris	spp.				x						
Philydrum	lanuginosum	x							x		
Phragmites	australis	x			x						
Phragmites	karka	x									
Pistia	stratioites	x								x	
Poa	spp.				x						
Polygonum	spp.								x		
Polypogon	monspeliensis				x					x	
Pontederia	cordata	x								x	
Portulaca	olearacea										x
Potamogeton	crispus	x									
Potamogeton	javanicus	x									
Potamogeton	ochreatus	x									
Potamogeton	pectinatus	x									
Potamogeton	perfoliatus	x									
Potamogeton	tepperi	x									
Potamogeton	tricarinatus	x									
Potamophila	spp.				x						
Proteaceae	spp.						x				
Pseudoraphis	spinescens	x			x						
Psilurus	spp.				x						
Ptilothrix	deusta					x					
Ranunculus	inundatus	x							x		
Ranunculus	spp.								x		

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Restionaceae	spp.								x		
Rhizophora	apiculata		x								
Rhizophora	lamarckii		x								
Rhizophora	mucronata		x								
Rhizophora	stylosa		x								
Rhynchospora	spp.					x					
Riccia	fluitans	x									
Ricciocarpus	natans	x									
Rorippa	nasturtium-aquaticum	x								x	
Rotala	mexicana	x									
Rumex	spp.								x		
Ruppia	maritima	x		x							
Ruppia	megacarpa	x		x							
Rutaceae	spp.							x			
Sacciolepis	indica				x						
Sagittaria	platyphylla	x								x	
Salix	babylonica								x	x	
Salvinia	molesta	x								x	
Sarcocornia	quinqueflora										x
Saropsis	fastigiata					x					
Schoenoplectus	mucronatus					x					
Schoenoplectus	spp.					x					
Schoenoplectus	validus					x		x			
Schoenus	spp.					x					
Scirpodendron	ghaeri					x					
Scirpus	spp.					x					
Scleria	spp.					x					
Scyphiphora	hydrophyllacea		x								

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Sehima	spp.				x						
Selaginella	spp.						x	x			
Sesbania	cannabina								x		
Sesuvium	portulacastrum										x
Sium	spp.	x							x	x	
Sonneratia	alba		x								
Sonneratia	caseolaris		x								
Sonneratia	lanceolata		x								
Sonneratia	sp. (Mclvor River N.C.Duke AIM1248)		x								
Sonneratia	x gulngai		x								
Sowerbaea	juncea						x				
Sparganium	erectum	x									
Sparganium	subglobosum	x									
Sphenoclea	zeylanica	x									
Spirodela	polyrhiza	x									
Spirodela	punctata	x									
Sporobolus	virginicus				x						x
Sporodanthus	spp.					x					
Sprengelia	sprengelioides						x				
Stenotaphrum	secundatum				x					x	
Sticherus	flabellatus var. flabellatus						x	x			
Suaeda	arbusculoides										x
Suaeda	australis										x
Syringodium	isoetifolium	x		x							
Tenagocharis	latifolia	x									
Tetragonia	tetragonioides										x
Tetaria	capillaris					x					

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Thalassia	hemprichii	x		x							
Thalassodendron	ciliatum	x		x							
Thelypteris	confluens	x					x				
Thoracostachyum	sumatranum					x					
Trachystylis	stradbokensis					x					
Tricostularia	undulata					x					
Triglochin	calcitrapum	x									
Triglochin	centrocarpum	x									
Triglochin	dubium	x									
Triglochin	hexagonum	x									
Triglochin	microtuberosum	x									
Triglochin	multifructum	x									
Triglochin	procerum	x									
Triglochin	rheophilum	x									
Triglochin	striatum	x							x		x
Typha	domingensis	x									
Typha	orientalis	x									
Utricularia	albiflora	x									
Utricularia	aurea	x									
Utricularia	australis	x									
Utricularia	bifida	x									
Utricularia	biloba	x									
Utricularia	caerulea	x									
Utricularia	chrysantha	x									
Utricularia	dichotoma	x									
Utricularia	foveolata	x									
Utricularia	gibba	x									
Utricularia	lasiocaulis	x									



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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Utricularia	lateriflora	x									
Utricularia	limosa	x									
Utricularia	minutissima	x									
Utricularia	muelleri	x									
Utricularia	quinquedentata	x									
Utricularia	stellaris	x									
Utricularia	terrae-reginae	x									
Utricularia	uliginosa	x									
Vallisneria	americana	x									
Vallisneria	annua	x									
Vallisneria	caulescens	x									
Vallisneria	nana	x									
Veronica	spp.								x		
Vetiveria	spp.				x						
Villarsia	exaltata	x									
Villarsia	reniformis	x									
Villarsia	sp.(Laura C Dalliston CC18)	x									
Viola	hederaceae							x			
Waterhousea	floribunda								x		
Wolffia	angusta	x									
Xanthorrhoea	fulva							x			
Xylocarpus	granatum		x								
Xylocarpus	moluccensis		x								
Xylocarpus	rumphii		x								
Xyris	complanata							x			
Xyris	juncea							x			
Zantedeschia	spp.	x									
Zostera	capricorni			x							

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		OBLIGATE	Mangrove	Seagrass	Grass	Sedge	Fern	Wet Heath	Woody/fringing	Exotic	Salt Marsh
Zoysia	macrantha				x						x