

Vegetation Association Descriptions



Table 1 Vegetation associations identified by Trudgen (2002) for Site B

Code	Description
Hummock Grasslands, Hummock/Tussock Grasslands	
Te	<i>Triodia epactia</i> (Burrup form) hummock grassland.
TeEtSg	<i>Triodia epactia</i> (Burrup form), (<i>Cyperus Acacia</i>), <i>Eriachne tenuiculmis</i> hummock grassland / sedgeland with <i>Stemodia grossa</i> annual herbland.
TeCa	<i>Triodia epactia</i> (Burrup form), <i>Cymbopogon ambiguus</i> hummock/tussock grassland.
TeRm	<i>Triodia epactia</i> (Burrup form) hummock grassland with <i>Rhynchosia</i> cf. <i>minima</i> lianes.
Acacia bivenosa (with various other species) scattered shrubs to high shrublands	
AbCcTe	<i>Acacia bivenosa</i> scattered shrubs to tall scattered shrubs over <i>Cajanus cinereus</i> , <i>Indigofera monophylla</i> (Burrup form) low shrubland over <i>Triodia epactia</i> (Burrup form), <i>Cymbopogon ambiguus</i> hummock/tussock grassland to closed hummock/tussock grassland.
AbCwTe	<i>Acacia bivenosa</i> scattered tall shrubs to high open shrubland over <i>Indigofera monophylla</i> (Burrup form), <i>Corchorus walcottii</i> scattered low shrubs over <i>Triodia epactia</i> (Burrup form) hummock grassland.
Acacia coleii (with various other species) scattered shrubs to high shrublands	
AcCaTe	<i>Acacia coleii</i> , <i>Cullen pustulatum</i> high open shrubland over <i>Indigofera monophylla</i> (Burrup form), <i>Triumfetta appendiculata</i> (Burrup form) low shrubland with <i>Cymbopogon ambiguus</i> , <i>Triodia epactia</i> (Burrup form) tussock/hummock grassland.
AcImTe	<i>Acacia coleii</i> , <i>Acacia elacantha</i> high open shrub land over <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> scattered shrubs over <i>Indigofera monophylla</i> (Burrup form) scattered low shrubs to low open shrubland over <i>Triodia epactia</i> (Burrup form), <i>Triodia wiseana</i> (Burrup form) hummock grassland.
AcImTe/TeCa	Mosaic: <i>Acacia coleii</i> , <i>Acacia elacantha</i> high open shrub land over <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> scattered shrubs over <i>Indigofera monophylla</i> (Burrup form) scattered low shrubs to low open shrubland over <i>Triodia epactia</i> (Burrup form), <i>Triodia wiseana</i> (Burrup form) hummock grassland: <i>Triodia epactia</i> (Burrup form), <i>Cymbopogon ambiguus</i> hummock/tussock grassland.
AcImTh	<i>Acacia coleii</i> shrubland over <i>Indigofera monophylla</i> (Burrup form) low open shrubland over <i>Themeda</i> sp Burrup (B84), <i>Triodia epactia</i> (Burrup form) tussock/hummock grassland.
Acacia inaequilatera (with various other species) scattered shrubs to high shrublands	
AiFdTe	<i>Acacia inaequilatera</i> , <i>Hakea chordophylla</i> , <i>Grevillea pyramidalis</i> scattered shrubs to open shrubland over <i>Corchorus walcottii</i> scattered low shrubs over <i>Triodia epactia</i> (Burrup form) dense hummock grassland over <i>Fimbristylis</i> aff. <i>Dichotoma</i> (M75-4) low open sedgeland with <i>Rhynchosia</i> cf. <i>minima</i> low lianes.
AiTe	<i>Acacia inaequilatera</i> , <i>Acacia coleii</i> , <i>Acacia bivenosa</i> , <i>Acacia coriacea</i> subsp. <i>coriacea</i> , <i>Acacia pyrifolia</i> (slender white) <i>Acacia elacantha</i> shrubland over <i>Triodia epactia</i> (Burrup form) hummock grassland.
Indigofera monophylla (Burrup form) scattered low open shrubs to shrubland	
ImTeAc	<i>Indigofera monophylla</i> (Burrup form) scattered shrubs to low open heath over <i>Triodia epactia</i> (Burrup form) hummock grassland to closed hummock grassland.
Corymbia hamersleyana scattered low trees to low woodlands	
ChAcTe	<i>Corymbia hamersleyana</i> scattered low trees to low open woodland over <i>Acacia coleii</i> , <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> scattered tall shrubs to high open shrubland over <i>Indigofera monophylla</i> (Burrup form) scattered low shrubs to low open shrubland over <i>Triodia epactia</i> (Burrup form), (<i>Triodia wiseana</i> (Burrup form)) hummock grassland.
ChTh	<i>Corymbia hamersleyana</i> scattered low trees to low woodland over <i>Acacia bivenosa</i> , <i>Acacia coleii</i> scattered tall shrubs to low open shrubland over <i>Indigofera monophylla</i> (Burrup form) over <i>Triodia epactia</i> (Burrup form), <i>Themeda</i> sp. Burrup (B84) hummock/tussock grassland.
Shrublands and high shrublands of Cullen pustulatum, Cajanus cinereus and various other species	
CpTe	<i>Cullen pustulatum</i> scattered tall shrubs over <i>Triodia epactia</i> (Burrup form) hummock grassland.
Eucalyptus vitrix scattered low trees, low open woodlands and low woodlands	
EvTr	Scattered trees of <i>Eucalyptus vitrix</i> over <i>Tephrosia rosea</i> var. <i>clementii</i> low open shrubland over <i>Triodia epactia</i> (Burrup form) <i>Triodia angusta</i> (Burrup form) hummock grassland.
EvTa	<i>Eucalyptus vitrix</i> low open woodland to low woodland over <i>Acacia coriacea</i> subsp. <i>Coriacea</i> scattered tall shrubs over <i>Triodia angusta</i> (Burrup form) hummock grassland.
Eucalyptus vitrix, Terminalia canescens low open woodlands to low open forests	
EvTaCv	<i>Eucalyptus vitrix</i> (<i>Terminalia canescens</i>) low woodland to low open forest over <i>Acacia coriacea</i> subsp. <i>coriacea</i> scattered tall shrubs over <i>Triodia angusta</i> (Burrup form), <i>Triodia epactia</i> (Burrup form), <i>Cyperus vaginatus</i> , (<i>Cyperus bifax</i>) hummock grassland/ sedgeland with <i>Sesbania cannabina</i> scattered herbs to open herbland and <i>Stemodia grossa</i> , (<i>Dicliptera armata</i>) low annual herbland.

Terminalia canescens scattered low trees to low woodland with Corymbia hamersleyana, Brachychiton acuminatus or Eucalyptus victrix	
TcCvSe	Scattered low trees of <i>Terminalia canescens</i> , <i>Brachychiton acuminatus</i> over <i>Cyperus vaginatus</i> open sedgeland with <i>Sesbania canabina</i> annual tall herbland.
Terminalia canescens scattered low trees to low forest	
TcDsDa	<i>Terminalia canescens</i> low open woodland to low closed forest over (<i>Dichrostachys spicata</i> , <i>Flueggea virosa</i> subsp. <i>melanthesoides</i>) high open shrubland to shrubland over <i>Dicliptera armata</i> annual herbland.
TcSg	<i>Terminalia canescens</i> scattered low trees to low open forest over <i>Cyperus vaginatus</i> , <i>Triodia angusta</i> (Burrup form) sedgeland/hummock grassland with <i>Stemodia grossa</i> low herbland to open herbland.
Indigofera monophylla (Burrup form) scattered low open shrubs to shrubland	
ImTrTe	<i>Indigofera monophylla</i> (Burrup form), <i>Tephrosea rosea</i> var. <i>clementii</i> low shrubland over <i>Triodia epactia</i> (Burrup form) (<i>Triodia angusta</i> Burrup form) hummock grassland.

Table 2 Vegetation associations identified by Trudgen (2002) for Site A

Code	Description
Hummock Grasslands, Hummock/Tussock Grasslands	
TeAb	<i>Triodia epactia</i> (Burrup form) hummock grassland with scattered <i>Acacia bivenosa</i> .
Te	<i>Triodia epactia</i> (Burrup form) hummock grassland.
TeCa	<i>Triodia epactia</i> (Burrup form), <i>Cymbopogon ambiguus</i> hummock/tussock grassland.
TeRm	<i>Triodia epactia</i> (Burrup form) hummock grassland with <i>Rhynchosia cf. minimalianes</i> .
Tussock Grasslands and Tussock/Hummock Grasslands	
Sv	<i>Sporobolus virginicus</i> tussock grassland.
Samphires	
Sm	<i>Halosarcia</i> spp. scattered low shrubs to low open heath.
Herblands	
SgTeTa	<i>Stemodia grossa</i> low open shrubland to open scrub over <i>Triodia epactia</i> (Burrup form), <i>Triodia angusta</i> (Burrup form) hummock grassland to closed hummock grassland
Acacia colei (with various other species) scattered shrubs to high shrublands	
AclmTe	<i>Acacia colei</i> , <i>Acacia elacantha</i> high open shrub land over <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> scattered shrubs over <i>Indigofera monophylla</i> (Burrup form) scattered low shrubs to low open shrubland over <i>Triodia epactia</i> (Burrup form), <i>Triodia wiseana</i> (Burrup form) hummock grassland
Ac'Te	<i>Acacia colei</i> , <i>Acacia inaequilatera</i> , <i>Hakea lorea</i> subsp. <i>lorea</i> , <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> , <i>Acacia bivenosa</i> shrubland over <i>Triodia epactia</i> (Burrup form), (<i>Triodia angusta</i> (Burrup form)) closed hummock grassland.
Acacia bivenosa (with various other species) scattered shrubs to high shrublands	
AbTe	<i>Acacia bivenosa</i> scattered tall shrubs to high shrubland over <i>Triodia epactia</i> (Burrup form) hummock grassland.
Terminalia supranitifolia with various other species, open shrublands to high shrublands or open scrub, sometimes low open woodland.	
Ts'Ac'Te	<i>Terminalia supranitifolia</i> , <i>Acacia coriacea</i> subsp. <i>coriacea</i> , <i>Stylobasium spathulatum</i> shrub land (high shrubland) over <i>Cyperus vaginatus</i> , <i>Triodia epactia</i> (Burrup form) sedgeland/grassland with <i>Rhynchosia</i> sp. Burrup (82–1 C) low vineland.
Low open shrublands to low open heath dominated by various species	
CwTe	<i>Corchorus walcottii</i> low open shrubland to low shrub land over <i>Triodia epactia</i> (Burrup form) hummock grassland to closed hummock grassland.
ItTa	<i>Indigofera trita</i> low shrubland over <i>Triodia angusta</i> (Burrup form), <i>Triodia epactia</i> (Burrup form) hummock grassland
Indigofera monophylla (Burrup form) scattered low open shrubs to shrubland	
ImTeAc	<i>Indigofera monophylla</i> (Burrup form) scattered shrubs to low open heath over <i>Triodia epactia</i> (Burrup form) hummock grassland to closed hummock grassland.
Acacia coriaca subsp. coriaca scattered low shrubs to tall shrublands	
GplmTe	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> , <i>Acacia colei</i> open shrubland over <i>Indigofera monophylla</i> (Burrup form) low open shrub land over <i>Triodia epactia</i> (Burrup form) hummock grassland.
Brachychiton acuminatus scattered low trees to low open woodland with various other low tree species	
BaTcTe	<i>Brachychiton acuminatus</i> , <i>Terminalia canescens</i> scattered trees over <i>Flueggea virosa</i> subsp. <i>melanthesoides</i> tall open shrubland over <i>Indigofera monophylla</i> (Burrup form) scattered low shrubs over <i>Triodia epactia</i> (Burrup form) hummock grassland.
Adriana tomentosa scattered low open shrubs to heath	
AtSl	<i>Adriana tomentosa</i> (<i>Corchorus walcottii</i>) scattered low shrubs over <i>Spinifex longifolius</i> , <i>Triodia epactia</i> (Burrup form) open hummock grassland.
Eucalyptus victrix, Terminalia canescens low open woodlands to low open forest	
EvTaCv	<i>Eucalyptus victrix</i> (<i>Terminalia canescens</i>) low woodland to low open forest over <i>Acacia coriacea</i> subsp. <i>coriacea</i> scattered tall shrubs over <i>Triodia angusta</i> (Burrup form), <i>Triodia epactia</i> (Burrup form), <i>Cyperus vaginatus</i> , (<i>Cyperus bifax</i>) hummock grassland/sedgeland with <i>Sesbania cannabina</i> scattered herbs to open herbland and <i>Stemodia grossa</i> , (<i>Dicliptera armata</i>) low annual herbland.

Shrublands and high shrublands of <i>Cullen pustulatum</i> , <i>Cajanus cinereus</i> and various other species	
DsTsTe	<i>Dichrostachys spicata</i> open shrubland over <i>Tephrosia aff supina</i> (MET 12,357), <i>Indigofera monophylla</i> (Burrup form), <i>Triumfetta appendiculata</i> (Burrup form) low open heath over <i>Triodia epactia</i> (Burrup form), <i>Triodia angusta</i> (Burrup form) hummock grassland.
Ipomoea costata scattered shrubs to shrublands	
IclmTe	<i>Ipomoea costata</i> open shrubland to shrubland over <i>Indigofera monophylla</i> (Burrup form) low shrubland over <i>Triodia epactia</i> (Burrup form) hummock grassland.
Other Habitats	
MF	Mudflat
R	Rock piles
RC	Rocky coast
S	Sand

Table 3 Vegetation associations identified by Astron (2006) for Site B South

Code	Description
Rockpiles, Ridges and Outcrops and Gully Walls	
TcFvAc	Low woodland (10–30% <10 m) of <i>Terminalia canescens</i> with <i>Flueggea virosa</i> subsp. <i>melanthesoides</i> , <i>Clerodendrum tomentosum</i> , <i>Brachychiton acuminatus</i> over open (2–10% 2 m) shrubland of <i>Acacia coriacea</i> , <i>Rhagodia preissii</i> sub sp. <i>preissii</i> over scattered (<2%) <i>Cymbopogon ambiguus</i> . There is annual hermland of <i>Dicliptera armata</i> .
BaTsFv	Pocket vegetation. Low woodland (10–30% <10 m) of <i>Brachychiton acuminatus</i> , <i>Terminalia supranitifolia</i> , <i>Flueggea virosa</i> subsp. <i>melanthesoides</i> with <i>Ficus brachypoda</i> , <i>Ipomoea costata</i> , <i>Ehretia saligna</i> over scattered (<2%) <i>Cymbopogon ambiguus</i> .
TcBaTeCa	Low mixed woodland (10–30% <10 m) of <i>Terminalia canescens</i> , <i>Brachychiton acuminatus</i> with <i>Terminalia supranitifolia</i> , <i>Ficus brachypoda</i> , <i>Clerodendrum tomentosum</i> over fingers of hummock grassland of <i>Triodia epactia</i> (Burrup form), <i>Cymbopogon ambiguus</i> .
Drainage Lines and Gullies	
TcFvCv	Low woodland to open forest (20–50% <10 m) of <i>Terminalia canescens</i> with <i>Flueggea virosa</i> subsp. <i>melanthesoides</i> and <i>Brachychiton acuminatus</i> over low open shrubland (2–10% 1–2 m) of <i>Acacia coriacea</i> over open <i>Cymbopogon ambiguus</i> grass and <i>Cyperus vaginatus</i> edges and annual herbs of <i>Dicliptera armata</i> , <i>Abutilon fraseri</i> .
ChSgTa	Low woodland (10–30% <10 m) of <i>Corymbia hamersleyana</i> over dwarf shrubland (10–30% <0.5 m) of <i>Stemodia grossa</i> and <i>Pluchea rubelliflora</i> over open (10–30%) hummock grassland of <i>Triodia angusta</i> (Burrup form) with <i>T. epactia</i> (Burrup form) with open sedgeland (2–10%) of <i>Cyperus vaginatus</i> .
CpTaCv	Open high shrubland (2–10% >2 m) of <i>Cullen pustulatum</i> over open dwarf shrubland (2–10% <0.5 m) of <i>Triumfetta appendiculata</i> , <i>Corchorus walcottii</i> over sedgeland (10–30%) of <i>Cyperus vaginatus</i> with open (2–10%) hummock grass of <i>Triodia epactia</i> (Burrup form).
EvSgTaCv	Low woodland (10–30% <10 m) of <i>Eucalyptus victrix</i> over open shrubland (2–10% 1–2 m) of <i>Acacia coriacea</i> over dwarf shrubland (10–30% <0.5 m) of <i>Stemodia grossa</i> sometimes <i>Tephrosia rosea</i> over open hummock grassland (10–30%) <i>Triodia epactia</i> (Burrup form) and sedges of <i>Cyperus vaginatus</i> over herbs.
EvSgTa	Low woodland (10–30% <10 m) of <i>Eucalyptus victrix</i> over very open dwarf (2–10% <0.5 m) shrubland of <i>Stemodia grossa</i> and <i>Triumfetta appendiculata</i> over hummock grassland of <i>Triodia angusta</i> (Burrup form).
ChCwTe	Open low woodland (2–10% <10 m) of <i>Corymbia hamersleyana</i> over open dwarf shrubland (2–10% <0.5 m) of <i>Corchorus walcottii</i> and <i>Indigofera monophylla</i> over open hummock grassland of <i>Triodia epactia</i> (Burrup form) with occasional <i>Cymbopogon ambiguus</i> .
TcSgCaTa	Low woodland (10–30% <10 m) of <i>Terminalia canescens</i> over open dwarf shrubland (2–10% <0.5 m) of <i>Stemodia grossa</i> mixed open grassland of <i>Cymbopogon ambiguus</i> with <i>Triodia epactia</i> (Burrup form) and open sedgeland of <i>Cyperus vaginatus</i> .
SgTeEt	Dwarf open shrubland (2–10% <0.5 m) of <i>Stemodia grossa</i> over open (10–30%) hummock grassland of <i>Triodia epactia</i> (Burrup form) and occasional <i>Eriachne tenuiculmis</i> .
SgTaCv	Low open heath (30–70% <1 m) of <i>Stemodia grossa</i> over hummock grassland of <i>Triodia angusta</i> (Burrup form) and sedgeland of <i>Cyperus vaginatus</i> .
Upper Undulating Hillslopes and Plateau	
ImTe	Open dwarf shrubland (2–10% <0.5 m) of <i>Indigofera monophylla</i> over hummock grassland (30–70%) of <i>Triodia epactia</i> (Burrup form). There are scattered (<2%) shrubs of <i>Acacia bivenosa</i> , <i>Dichrostachys spicata</i> , <i>Cullen pustulatum</i> and trees of <i>Corymbia hamersleyana</i> .
ChImTe	Scattered to very open low woodland (2–10% <10 m) of <i>Corymbia hamersleyana</i> over open dwarf shrubland (2–10% <0.5 m) of <i>Indigofera monophylla</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form).
AbImTe (TsFvlp)	Open high shrubland (2–10% >2 m) of <i>Acacia bivenosa</i> over open dwarf shrubland (2–10% <0.5 m) of <i>Indigofera monophylla</i> (Burrup form) and <i>Corchorus walcottii</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) over hermland. There are sometimes scattered trees (<2%) of <i>Corymbia hamersleyana</i> . (Note: in this habitat are frequent small rockpiles with rockpile woodland – <i>Terminalia supranitifolia</i> , <i>Flueggea virosa</i> subsp <i>melanthesoides</i> , <i>Ipomoea costata</i>).
HiCplmTeCa	Mixed shrubland (10–30% 1–2 m) of <i>Hakea lorea</i> subsp <i>lorea</i> <i>Cullen pustulatum</i> , <i>Acacia bivenosa</i> , <i>Grevillea pyramidalis</i> and occasional <i>Acacia coleii</i> over open dwarf shrubland (2–10% <0.5 m) of <i>Indigofera monophylla</i> (sometimes with <i>Corchorus walcottii</i> , <i>Hibiscus sturtii</i>) over mixed hummock <i>Triodia epactia</i> (Burrup form) and <i>Cymbopogon ambiguus</i> grassland with tall annual hermland of <i>Trachymene oleracea</i> . There are scattered (<2%) <i>Corymbia hamersleyana</i> .
TeCa	Mixed hummock <i>Triodia epactia</i> (Burrup form) and tussock <i>Cymbopogon ambiguus</i> grassland with tall annual hermland of <i>Trachymene oleracea</i> . There are scattered (<2%) <i>Acacia bivenosa</i> , <i>Acacia coleii</i> , <i>Grevillea pyramidalis</i> subsp <i>pyramidalis</i> .

CwTe	Dwarf shrubland (10–30% <0.5 m) of <i>Corchorus walcottii</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) with tall annual herbland of <i>Trachymene oleracea</i> .
CwImTrTe	Dwarf shrubland (10–30% (0.5 m) of <i>Corchorus walcottii</i> , <i>Indigofera monophylla</i> (Burrup form) <i>Tephrosia rosea</i> var. <i>clementii</i> , over hummock grassland of <i>Triodia epactia</i> (Burrup form).
TsBaGpTe	Open low woodland (2–10% <5 m) of <i>Terminalia supranitifolia</i> , <i>Brachychiton acuminatus</i> , <i>Ehretia saligna</i> on numerous small rockpiles surrounded by open shrubland (2–10% 1–2 m) of <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> , <i>Hakea lorea</i> subsp. <i>lorea</i> , <i>Acacia bivenosa</i> over open dwarf shrubland (2–10% <0.5 m) of <i>Indigofera monophylla</i> , <i>Tephrosia rosea</i> var. <i>clementii</i> , over hummock grassland of <i>Triodia epactia</i> (Burrup form) and annual herbland of <i>Trachymene oleracea</i> .
ImTeCa	Very open dwarf shrubland (2–10% <0.5 m) of <i>Indigofera monophylla</i> over mixed tussock and hummock grassland of <i>Cymbopogon ambiguus</i> , <i>Triodia epactia</i> (Burrup form). There are scattered <i>Cullen pustulatum</i> , <i>Acacia bivenosa</i> .
ImTeTh	Open dwarf shrubland (2–10% <0.5 m) of <i>Indigofera monophylla</i> (Burrup form) over hummock grassland of <i>Triodia epactia</i> (Burrup form) and tussock grass <i>Themeda triandra</i> (Burrup form). There are scattered <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> , <i>Acacia bivenosa</i> , <i>Acacia coleii</i> .
AiAbTe	Open high shrubland (2–10% 2 m) of <i>Acacia inaequilatera</i> , <i>Acacia bivenosa</i> and <i>Acacia coriacea</i> subsp. <i>coriacea</i> , over hummock grassland of <i>Triodia epactia</i> (Burrup form).
TcChGpTe	Scattered to open low woodland (2–10% <10 m) of <i>Terminalia canescens</i> , <i>Corymbia hamersleyana</i> , <i>Eucalyptus victrix</i> over tall open shrubland (2–10% 2 m) of <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> with <i>Acacia bivenosa</i> , <i>Hakea lorea</i> subsp. <i>lorea</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) over tall annual herbland of <i>Trachymene oleracea</i> .
Low Rounded Hill Crests	
ChTeTh	Low woodland (10–30% <10 m) of <i>Corymbia hamersleyana</i> over open high shrubland (2–10% 2 m) of <i>Acacia bivenosa</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) and tussock grass of <i>Themeda triandra</i> (Burrup form) over herbland.
Rocky Hillslope Terraces	
TcBaTeCa	Open low woodland (2–10% <5 m) of <i>Terminalia canescens</i> with <i>Brachychiton acuminatus</i> , <i>Ipomoea costata</i> on rockpiles surrounded by hummock grassland of <i>Triodia epactia</i> (Burrup form) and tussock grassland of <i>Cymbopogon ambiguus</i> and dense annual herbland of <i>Trachymene oleracea</i> . There are scattered (<2%) <i>Grevillea pyramidalis</i> .

Table 4 Vegetation associations identified by Astron (2006) for Site B North

Code	Description
Rockpiles	
BaTcAcPtTe	Scattered low trees to low open woodland of <i>Brachychiton acuminatus</i> , <i>Terminalia canescens</i> , <i>Ipomoea costata</i> , <i>Dichrostachys spicata</i> , <i>Ficus brachypoda</i> , <i>Ehretia saligna</i> var. <i>saligna</i> over open shrubland of <i>Acacia coriacea</i> subsp. <i>coriacea</i> , <i>Flueggea virosa</i> subsp. <i>melanthesoides</i> , <i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i> over open tussock / hummock grassland of <i>Paspalidium tabulatum</i> (Burrup Form), <i>Triodia epactia</i> (Burrup Form).
Major Drainage Line (A) – Low Woodland of Eucalyptus victrix and Terminalia canescens	
EvTcBaRmPtTa	Low woodland of <i>Eucalyptus victrix</i> , <i>Terminalia canescens</i> over high open shrubland of <i>Brachychiton acuminatus</i> , <i>Flueggea virosa</i> subsp. <i>melanthesoides</i> , <i>Acacia coriacea</i> subsp. <i>coriacea</i> over low open shrubland of <i>Rhynchosia minima</i> var. <i>australis</i> over open herbs (<i>Sesbania cannabina</i>), low annual herbland (<i>Dicliptera armata</i>) and very open sedgeland (<i>Cyperus vaginatus</i> , <i>Cyperus bifax</i>) over open grassland of <i>Paspalidium tabulatum</i> (Burrup Form) and very open hummock grassland of <i>Triodia angusta</i> (Burrup Form).
Major Drainage Line (B) – Low Woodland of Terminalia canescens	
TcBaRmPtTa	Low woodland of <i>Terminalia canescens</i> over high open shrubland of <i>Brachychiton acuminatus</i> , <i>Flueggea virosa</i> subsp. <i>melanthesoides</i> , <i>Dichrostachys spicata</i> , <i>Acacia coriacea</i> subsp. <i>coriacea</i> over low open shrubland of <i>Rhynchosia minima</i> var. <i>australis</i> , <i>Triumfetta appendiculata</i> (Burrup Form) over very open tussock / hummock grassland of <i>Paspalidium tabulatum</i> (Burrup Form) / <i>Triodia angusta</i> (Burrup Form) over open sedgeland (<i>Cyperus bifax</i>) and low annual herbland (<i>Dicliptera armata</i> , <i>Stemodia grossa</i>).
Drainage Line Minor	
TcRmTe	<i>Terminalia canescens</i> , <i>Flueggea virosa</i> subsp. <i>melanthesoides</i> low open woodland over <i>Rhynchosia minima</i> var. <i>australis</i> , <i>Indigofera monophylla</i> (Burrup Form), <i>Phyllanthus maderaspatensis</i> , <i>Triumfetta appendiculata</i> (Burrup Form), <i>Corchorus tridens</i> low open shrubland over <i>Triodia epactia</i> (Burrup Form) / <i>Eriachne tenuiculmis</i> , <i>Paspalidium tabulatum</i> (Burrup Form) open hummock / tussock grassland over <i>Dicliptera armata</i> , <i>Stemodia grossa</i> open herbfield.
Crest Above Drainage Line	
TcTe	High open shrubland of <i>Terminalia canescens</i> , <i>Ipomoea costata</i> , <i>Dichrostachys spicata</i> , <i>Brachychiton acuminatus</i> over mixed low open shrubland over <i>Triodia epactia</i> (Burrup Form) hummock grassland.
Upland Swales	
ChGpGsTe	Scattered low trees of <i>Corymbia hamersleyana</i> over scattered shrubs of <i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i> , <i>Ipomoea costata</i> , <i>Dichrostachys spicata</i> over low open shrubland of <i>Goodenia stobbsiana</i> , <i>Hybanthus aurantiacus</i> , <i>Triumfetta appendiculata</i> (Burrup Form), <i>Triumfetta clementii</i> , <i>Triumfetta maconochieana</i> , <i>Indigofera monophylla</i> (Burrup form), <i>Abutilon lepidum</i> over hummock grassland <i>Triodia epactia</i> (Burrup Form).
Upland Stony Plateau	
GpAeTe	Scattered shrubs of <i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i> over mixed low open shrubland (including <i>Acacia elachantha</i> , <i>Indigofera monophylla</i> (Burrup form), <i>Triumfetta clementii</i> , <i>Triumfetta maconochieana</i> , <i>Trachymene</i> aff. <i>oleracea</i> , <i>Hibiscus</i> aff. <i>platyklamys</i>) over open hummock grassland <i>Triodia epactia</i> (Burrup Form).
Gentle Slopes Adjacent to Rockpiles	
TaTe	Low open shrubland of <i>Triumfetta appendiculata</i> (Burrup Form), <i>Triumfetta clementii</i> , <i>Corchorus walcottii</i> over open hummock grassland of <i>Triodia epactia</i> (Burrup Form).

Table 5 Vegetation associations identified by Astron (2006) for Site A

Code	Description
Rocky Hill Slopes and Undulating Slopes	
TeCa	Mixed hummock <i>Triodia epactia</i> (Burrup form) and tussock <i>Cymbopogon ambiguus</i> grassland (30–70%) over annual hermland of <i>Trachymene oleracea</i> , <i>Trichodesma zeylanicum</i> . There are scattered low trees and shrubs associated with frequent small rockpiles.
AbTe	Tall shrubland (10–30% 2 m) of <i>Acacia bivenosa</i> with occasional <i>Hakea lorea</i> subsp. <i>lorea</i> , <i>Cullen pustulatum</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form). Very scattered occurrences of <i>Acacia inaequilatera</i> .
CpGpTe(TsBa)	Mixed open tall shrubland (2–10% 2 m) to tall shrubland (10–30% 2 m) of <i>Cullen pustulatum</i> with <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> , <i>Hakea lorea</i> subsp. <i>lorea</i> , <i>Ipomoea costata</i> over open dwarf (2–10% <0.5 m) shrubland of <i>Corchorus walcottii</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) and patches of <i>Cymbopogon ambiguus</i> and <i>T. wiseana</i> . Small rockpiles have frequent <i>Terminalia supranitifolia</i> , <i>Brachychiton acuminatus</i> .
AoAbTe	Open shrubland (2–10% 1–2 m) of <i>Acacia orthocarpa</i> and <i>Acacia bivenosa</i> over open dwarf shrubland (2–5% <0.5 m) of <i>Triumfetta appendiculata</i> (Burrup Form), <i>Corchorus walcottii</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) with dense annual hermland.
Te(TapTs)	Hummock grassland (30–70%) of <i>Triodia epactia</i> (Burrup form) over tall annual hermland (10–30%) of <i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i> . Scattered <i>Triumfetta appendiculata</i> (Burrup Form) and <i>Terminalia supranitifolia</i> (P1) on low rockpiles. There are sometimes scattered <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> and <i>Hakea lorea</i> .
AbAcCwTe	Mixed shrubland (10–30%; 1–2 m) of <i>Acacia bivenosa</i> with <i>Acacia coriacea</i> , <i>Ipomoea costata</i> , and <i>Stylobasium spathulatum</i> over dwarf shrubland (10–30%; <0.5 m) of <i>Corchorus walcottii</i> over hummock grassland of <i>Triodia epactia</i> .
TapTe(Ch)	Low open heath of <i>Triumfetta appendiculata</i> (Burrup Form) over hummock grassland (30–70%) of <i>Triodia epactia</i> (Burrup form) over tall annual hermland (10–30%) of <i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i> . Scattered <i>Corymbia hamersleyana</i> and <i>Acacia coleii</i> .
ImTeCa	Open dwarf shrubland (2–10%) of <i>Indigofera monophylla</i> (Burrup form) with occasional <i>Corchorus walcottii</i> over mixed grassland (30–70%) of <i>Triodia epactia</i> (Burrup form) and <i>Cymbopogon ambiguus</i> . Sometimes with scattered <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i> and <i>Ipomoea pescaprae</i> .
AbHllmTe	Tall shrubland (10–30%; 2 m) of <i>Acacia bivenosa</i> , <i>Hakea lorea</i> , <i>Cullen pustulatum</i> over dwarf shrubland of <i>Indigofera monophylla</i> (Burrup form) (10–30% <0.5 m) with occasional <i>Acacia coleii</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form).
Drainage Lines and Rocky Gullies	
TapTeCa	Dwarf shrubland (10–30%; <0.5 m) of <i>Triumfetta appendiculata</i> (Burrup Form) with occasional <i>Stemodia grossa</i> over mixed grassland of <i>Triodia epactia</i> (Burrup form) with <i>Cymbopogon ambiguus</i> and sometimes <i>Eriachne tenuiculmis</i> .
EvTaCv	Low woodland (10–30%; <10 m) of <i>Eucalyptus victrix</i> over hummock grassland of <i>Triodia angusta</i> (Burrup form) with open hermland of <i>Pluchea rubelliflora</i> and sedges <i>Cyperus vaginatus</i> .
SgTapTa	Mixed open shrubland (2–10%; 1–2 m) of <i>Ipomoea costata</i> , <i>Acacia bivenosa</i> , <i>Cullen pustulatum</i> over dwarf shrubland (10–30%; <0.5 m) of <i>Stemodia grossa</i> and <i>Triumfetta appendiculata</i> (Burrup Form) over open (10–30%) hummock grassland of <i>Triodia angusta</i> (Burrup form), occasional <i>Triodia epactia</i> (Burrup form).
IcTapCaTa	Open shrubland (2–10%; 1–2 m) of <i>Ipomoea costata</i> over open mixed dwarf shrubland (2–10%; <0.5 m) of <i>Triumfetta appendiculata</i> (Burrup Form) and <i>Stemodia grossa</i> over mixed tussock and hummock grasslands of <i>Cymbopogon ambiguus</i> and <i>Triodia angusta</i> (Burrup form).
SsTapSgTa	Open heath (30–70%; 1–2 m) of <i>Stylobasium spathulatum</i> and <i>Acacia bivenosa</i> with <i>Acacia coriacea</i> , <i>Ipomoea costata</i> over dwarf shrubland (10–30%; <0.5 m) of <i>Triumfetta appendiculata</i> (Burrup Form) and <i>Stemodia grossa</i> over hummock grassland of <i>Triodia angusta</i> (Burrup form).
AcAeTe	Grove of low woodland (10–30%; <10 m) of <i>Acacia coriacea</i> , <i>Clerodendrum tomentosum</i> , <i>Alectryon oleifolius</i> subsp. <i>oleifolius</i> over low shrubland (10–30%) of <i>Aerva javanica</i> over open (10–30%) hummock grassland of <i>Triodia epactia</i> (Burrup form).
TsAcCa	Open heath (30–70% 1 m) of <i>Terminalia supranitifolia</i> , <i>Acacia coriacea</i> , <i>Phyllanthus ciccoides</i> over open grassland (2–10%) of <i>Cymbopogon ambiguus</i> with <i>Triodia epactia</i> (Burrup form) with herbs. There are scattered <i>Brachychiton acuminatus</i> and <i>Ehretia saligna</i> .
TapTe	Dwarf open heath (30–70% <0.5 m) of <i>Triumfetta appendiculata</i> (Burrup Form) over hummock grassland of <i>Triodia epactia</i> (Burrup form) and dense annual tall hermland of <i>Trichodesma zeylanicum</i> . There are scattered shrubs along the edge of the drainline.
TsAcTapTe(Ch)	Open low woodland (2–5% <10 m) of <i>Corymbia hamersleyana</i> over shrubland (10–30% 1–2 m) of <i>Terminalia supranitifolia</i> , <i>Acacia coriacea</i> over dwarf shrubland to open heath (10–40% <0.5 m) of <i>Triumfetta appendiculata</i> (Burrup Form) over hummock grassland of <i>Triodia epactia</i> (Burrup form).
TsAcIcTa	Mixed low heath (30–70% 1–2 m) of <i>Terminalia supranitifolia</i> , <i>Acacia coriacea</i> , <i>Ipomoea costata</i> with <i>Grevillea pyramidalis</i> , <i>Dichrostachys spicata</i> over hummock grassland of <i>Triodia angusta</i> (Burrup form) and herbs.
AbTeTa(Ev)	Mixed tall shrubland (10–30%) of <i>Acacia bivenosa</i> with occasional <i>Acacia coriacea</i> over open dwarf shrubland (2–10%; <0.5 m) of <i>Triumfetta appendiculata</i> (Burrup Form) with <i>Stemodia grossa</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) and <i>Triodia angusta</i> (Burrup form) associated with low woodland of <i>Eucalyptus victrix</i> which occurs immediately north of boundary.
Deeper Rocky Drainage Gullies	
BaAcTaCv	Low open woodland (2–10%; <10 m) of <i>Brachychiton acuminatus</i> with some <i>Terminalia canescens</i> over shrubland (10–30%; 1–2 m) of <i>Acacia coriacea</i> with <i>Scaevola</i> aff. <i>spinescens</i> (glossy) over very open grassland of <i>Triodia angusta</i> (Burrup form) and very open sedges <i>Cyperus vaginatus</i> (2–10%) with herbs <i>Pluchea rubelliflora</i> and <i>Rhynchosia</i> sp. Burrup (82–1C).
EvAcTaCv	Low woodland (10–30%; <10 m) of <i>Eucalyptus victrix</i> over shrubland (10–30%; 1–2 m) of <i>Acacia coriacea</i> over very open (2–10%) hummock grassland of <i>Triodia angusta</i> (Burrup form) and sedgeland of <i>Cyperus vaginatus</i> .

Rockpiles, Ridges, Outcrops	
BaTsAc	Low woodland (10–30% <10 m) of <i>Brachychiton acuminatus</i> and <i>Terminalia supranitifolia</i> over shrubland (10–30% 1–2 m) of <i>Acacia coriacea</i> with <i>Ipomoea costata</i> and <i>Stylobasium spathulatum</i> over very open (2–10%) mixed grassland of <i>Triodia epactia</i> (Burrup form) and <i>Cymbopogon ambiguus</i> .
TsAcAe	Pocket of low, open woodland (2–10%; <5 m) of <i>Terminalia supranitifolia</i> over low shrubland (10–30%) <i>Acacia coriacea</i> , <i>Scaevola affspinescens</i> (glossy) with <i>Aerva javanica</i>
AcIcRm	Open to very low mixed woodland and shrubland (2–30% <2 m) of <i>Acacia coriacea</i> , <i>Ipomoea costata</i> with <i>Ficus virens</i> , <i>Rhagodia preissii obovata</i> , <i>Stylobasium spathulatum</i> , <i>Brachychiton acuminatus</i> , <i>Terminalia supranitifolia</i> , with occasional liane <i>Rhynchosia minima</i> (82–1C)
Undulating Coastal Dunes and Flats	
AbAuTeEte	Open scrub (30–80%; 2 m) of <i>Acacia bivenosa</i> over low open (2–10%) to shrubland (10–30%; 1 m) <i>Adriana urticoides</i> and <i>Aerva javanica</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) over herbland of <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> with frequent <i>Swainsona Formosa</i> .
AeTeEte	Low shrubland (10–30%; <1 m) to low open heath (30–70%) of <i>Aerva javanica</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) herbland of <i>Euphorbia tannensis</i> . Scattered (<2%) <i>Acacia bivenosa</i> (sometimes open 2–10%).
White Sand Beach and Dunes	
AeAuSI	Low shrubland (10–30%; 1 m) of <i>Aerva javanica</i> and <i>Adriana urticoides</i> over open tussock grassland (10–30%) of <i>Spinifex longifolius</i> , over herbland of <i>Swainsona pterostylis</i> and <i>Ptilotus villosiflorus</i> .
AcImAeTe	Shrubland (10–30%; 1–2 m) of <i>Acacia coriacea</i> , <i>Alectryon oleifolius</i> subsp. <i>oleifolius</i> and <i>Adriana urticoides</i> over low open heath (30–70%; <1 m) of <i>Indigofera monophylla</i> (Burrup form) and <i>Aerva javanica</i> over open (10–30%) hummock grassland of <i>Triodia epactia</i> (Burrup form).
Sapphire Flat	
Hh(Sv)	Dwarf closed heath (70–100%; <0.5 m) of <i>Halosarcia halocnemoides</i> subsp. <i>tenuis</i> and <i>Halosarcia indica</i> over very open tussock grassland of <i>Sporobolus virginicus</i> (2–10%).
Valley	
EvAcTa	Open (2–10%) to low woodland (10–30%; <10 m) of <i>Eucalyptus victrix</i> over open shrubland (2–10% 1 m) of <i>Acacia coriacea</i> over hummock grassland of <i>Triodia angusta</i> (Burrup form). There are very scattered dwarf shrubs of <i>Indigofera trita</i> .
Ta(Ao)	Hummock grassland of <i>Triodia angusta</i> (Burrup form) with scattered (<2%) <i>Acacia orthocarpa</i> and scattered (<2%) dwarf shrubs of <i>Corchorus walcottii</i> / <i>Indigofera monophylla</i> .
AcoAbTe(Ch)	Scattered to very open low woodland (2–5% <10 m) of <i>Corymbia hamersleyana</i> over open (2–10% 1–2 m) of <i>Acacia coleii</i> , <i>Acacia bivenosa</i> over hummock grassland of <i>Triodia epactia</i> (Burrup form) and patches of <i>Cymbopogon ambiguus</i> .