

**Floristic analysis of vegetation site data from the
Burrup Peninsula, Dolphin, Angel and Gidley
Islands with data from Cape Preston the Chichester Ranges
and other localities**

Volume 3 of 3

**A flora, vegetation and floristic survey of the Burrup
Peninsula, some adjoining areas and part of the
Dampier Archipelago, with comparisons to the
floristics of areas on the adjoining mainland**

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- These three volumes titled “*A flora, vegetation and floristic survey of the Burrup Peninsula, some adjoining areas and part of the Dampier Archipelago, with comparisons to the floristics of areas on the adjoining mainland – Prepared by M.E. Trudgen & Associates for The Department of Mineral & Petroleum Resources*” were collated from original files in .doc and .xls formats supplied by Mr. Malcolm Trudgen on 14 August 2020. Some minor corrections were also made to the “Table of Contents” and “page numbers” in the texts.
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The “**Table of Contents**” and “**Introduction**” in Volume 3 were not supplied with the original data. They were compiled in August 2020.

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INTRODUCTION

Volume three contains the site data recorded during the study and floristic data for the sites recorded by CALM on the Burrup Peninsula (the plant collections for these sites were identified as part of the current study to include any extra species recorded and to make the data available for analysis. The photographs of the sites recorded are also included in Volume three
(Extracted from Volume 2, p. 1 - 2)

APPENDIX 1: Quadrat data collected during the Burrup Peninsula flora study

Site and flora data collected as part of the Burrup Peninsula flora, vegetation and floristic survey is shown in this appendix. Site data is presented under their respective survey areas, sampled as part of the Burrup Peninsula study. The survey areas are ordered alphabetically. The Burrup Peninsula study survey areas were Angel Island (A), Burrup Peninsula (B), Dolphin Island (D), Gidley Island (G), Hamersley Iron rail line (HR), Harding Dam (HD), Karratha Hills (KH/KA) and Whim Creek (W) (see Figure 1, Volume 1, Trudgen 2002).

For each survey area, sites are listed numerical (numbers after the survey area code).

Angel Island quadrats

Angel Island **Site** A113

Described by MET **Date** 31/05/00

Location Crest near south end of Angel Island

Air Photo **Photo** 11 **on Roll** M2 **Video** Y **E Photo** 207,208

Photo Notes

AMG Zone 50 478399mE, 7733579mN 478377mE, 7733489mN 478421mE, 7733421mN 478647mE, 7733446mN

Habitat Crest of a ridge and upper slopes, a strip of *Triodia* between two outcrop strips.

Soil Light brown loam, some coarse sandgrains between pebbles and cobbles. About 60-70% of the surface is cobbles/pebbles, some small areas of outcrop.

Rock Type Medium grained volcanic.

Vegetation *Tephrosia rosea* var *clementii* scattered low shrubs over *Triodia epactia* (Burrup form), *Themeda* sp. Burrup (B84) hummock/tussock grassland.

Veg Condition Excellent.

Fire Age >10 years.

Notes Indigofera only in NW corner, Sorghum only in SW corner.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	5 cm	A113-15	
	<i>Bulbostylis barbata</i>	+	<1 %	3-5 cm		
	<i>Corchorus walcottii</i>	+	<1 %	15-30 cm	A113-2	
	<i>Eriachne obtusa</i>	+	<1 %	45 cm	A113-5	
	<i>Euphorbia biconvexa</i>	+	<1 %	20 cm	A113-11	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10 cm	A113-10	
	<i>Gomphrena cunninghamii</i>	+	<1 %	7 cm		
	<i>Goodenia microptera</i>	+	<1 %	20 cm	A113-4	
	<i>Hybanthus aurantiacus</i>	+	<1 %	7 cm		
	<i>Indigofera linnaei</i>	+	<1 %	15 cm	A113-8	
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	40-60 cm		
	<i>Mollugo molluginis</i>	+	<1 %	10 cm	A113-3	
	<i>Mukia maderaspatana</i>	+	<1 %	35 cm	A113-9	
	<i>Polycarpaea longiflora</i> (red form)	+	<1 %	15-30 cm	A113-12	Red
	<i>Pterocaulon sphacelatum</i>	+	<1 %	5-50 cm	=B86	
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	35 cm	A113-7	
	<i>Sorghum plumosum</i>	+	<1 %	50-80 cm	A113-1	
	<i>Striga curviflora</i>	+	<1 %	12 cm	A113-14	
	<i>Tephrosia rosea</i> var. <i>clementii</i>	<1	<1 %	20-65 cm		
	<i>Themeda</i> sp. Burrup (B84)	>=15	10-25%	30-50 cm	A113-6	
	<i>Triodia angusta</i> (Burrup Form)	+	<1 %	30 cm		
	<i>Triodia epactia</i> (Burrup Form)	>30%	25-33.3%	30-20 cm	A113-13	
	<i>Triumfetta maconochieana</i>		<1 %			

Angel Island **Site** A120

Described by ASW **Date** 31/05/00

Location Saddle between two watercourses. 265 degrees to centre of beach.

Air Photo **Photo** Y **on Roll** AS **Video** N **E Photo**

Photo Notes 00, 0 (Peg 1), 1 (Peg 2).

AMG Zone 50 479305mE, 7733720mN 479334mE, 7733658mN 479348mE, 7733705mN 479288mE, 7733873mN

Habitat Rise between two drainages and gentle upper NE and SW slopes. Flat to gently sloping on either side.

Soil Red, fine, clayey with ~50% gravel.

- Rock Type** 1) Coarse grain, platy structure, often with quartz grains in it. (2) Fine grained, dark, angular to subangular - the bigger cobbles.
- Vegetation** *Triodia epactia* (Burrup form), *Themeda* sp. Burrup (B84), *Sorghum plumosum* hummock/tussock grassland.
- Veg Condition** Excellent.
- Fire Age** Probably between 1994 and 1997.
- Notes** A few dead shrubs are along line near PEGS 1 and 2, possibly *Acacia orthocarpa* or *A. arida*, which are live further down slope.
Excludes the SE (Peg 2 corner), which is on small rockpile and has *Ipomoea costata*, *Rhagodia eremaea* and *Mukia maderaspatana*.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Bonamia media</i> var. <i>villosa</i>	1	1-5%	15 cm	A120-3	
	<i>Enneapogon</i> sp.	1	1-5%	10 cm		=30 May
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	20 cm	A120-6	
	<i>Gomphrena cunninghamii</i>	1	1-5%	10 cm		
	<i>Goodenia microptera</i>	1-2	1-5%	50 cm		usual
	<i>Indigofera linifolia</i>	1	1-5%	40 cm		
	<i>Indigofera linnaei</i>	1	1-5%	30 cm	A120-5	
	<i>Mollugo molluginis</i>	2-5	1-5%	10 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	50 cm		
	<i>Polycarpaea longiflora</i> (red form)	1	1-5%	30 cm		
	<i>Pterocaulon sphacelatum</i>	1-2	1-5%	40 cm		
	<i>Rhynchosia</i> cf. <i>minima</i>	25	25-33.3%	60 cm		
	<i>Sorghum plumosum</i>	5	5-10%	90 cm	A120-1	
	<i>Streptoglossa decurrens</i>	1	1-5%	50 cm	A120-2	
	<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %	20 cm	A120-7	shrub
	<i>Tephrosia supina</i>	1-2	1-5%	20 cm	A120-4	
	<i>Themeda</i> sp. Burrup (B84)	30	25-33.3%	50 cm		
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	15 cm		
	<i>Triodia epactia</i> (Burrup Form)	50	33.3-50%	50 cm		

Angel Island Site A126

- Described by** VLL **Date** 31/05/00 **Size** 30 x 75 m
- Location** Towards the N end of Angel Island, above surfers' beach before rockpile/hillslope (W side).
- Air Photo** **Photo** **on Roll** **Video** **N** **E Photo**
- Photo Notes**
- AMG Zone** 50 479393mE, 7734575mN 479402mE, 7734604mN 479371mE, 7734552mN 479389mE, 7734621mN
- Habitat** Steep stony, rocky hillslope, densely vegetated, facing NE.
- Soil** Sandy brown-red.
- Rock Type** Small-medium sized rocks beneath medium-dense vegetation.
- Vegetation** *Ipomoea costata*, *Corchorus walcottii* scattered low shrubs over *Triodia epactia* (Burrup form), *Triodia angusta* (Burrup form), *Themeda* sp. Burrup (B84), *Sorghum plumosum* closed hummock/tussock grassland with *Rhynchosia* cf. *minima* very open lianes.
- Veg Condition** Excellent - no weeds.
- Fire Age** N/A
- Notes** Transect 30 x 75 down slope to fit in beneath gullies. Relatively dense and full *Triodia epactia* (Burrup form), with patches of *Triodia angusta* (Burrup form) (tall and dense), plus tussocks of *Sorghum plumosum*. Herbs mainly on occasional bare stony areas or entwined with *Triodia*.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Alysicarpus muelleri</i>	+	<1 %	25 cm		

<i>Bulbostylis barbata</i>	+	<1 %	10 cm		
<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	45 cm		
<i>Cassia venusta</i>	+	<1 %	35 cm		
<i>Corchorus walcottii</i>	+	<1 %	35 cm	A126-15	
<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	30 cm	A126-7	
<i>Cynanchum floribundum</i>	+	<1 %	1.5	A126-14	vine
<i>Eriachne obtusa</i>	+	<1 %	30 cm	A126-5	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	15 cm		
<i>Gomphrena cunninghamii</i>	+	<1 %	15 cm		
<i>Goodenia microptera</i>	2	1-5%	30 cm	A126-12	
<i>Heliotropium cunninghamii</i>	+	<1 %	20 cm	A126-1	
<i>Hybanthus aurantiacus</i>	+	<1 %			
<i>Indigofera linifolia</i>	+	<1 %	25 cm		
<i>Indigofera trita</i>	+	<1 %	30 cm		with triang
<i>Ipomoea costata</i>	<2	1-5%	1 m		
<i>Mollugo molluginis</i>	+	<1 %	20 cm		
<i>Mukia maderaspatana</i>	+	<1 %		A126-8	
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	20 cm		
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	25-30 cm	A126-2	
<i>Pterocaulon sphacelatum</i>	+	<1 %			
<i>Rhynchosia</i> cf. <i>minima</i>	5	5-10%		A126-13	grey-green, spreading
<i>Sorghum plumosum</i>	10-30	10-25%	60-80 cm	A126-9	
<i>Streptoglossa decurrens</i>	+	<1 %	15 cm		
<i>Striga curviflora</i>	+	<1 %	20-40 cm	A126-4	Tall, purple, sticky
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	20 cm	A126-3	mauve
<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %		A126-6	
<i>Themeda</i> sp. <i>Burrup</i> (B84)	20	10-25%	30-40 cm	A126-11	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	80 cm		
<i>Triodia angusta</i> (Burrup Form)	10-20	10-25%	60-70		
<i>Triodia epactia</i> (Burrup Form)	70-80	>75%	40-60 cm	A126-10	

Angel Island Site A127

Described by VLL **Date** 31/05/00

Location Rockpile on steep slope immediately W of A126, towards N end of Angel Island (W side).

Air Photo **Photo** 17 **on Roll** F2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 479341mE, 7734589mN

Habitat Rockpile on top of steep slope, medium-large jointed fine grained red rhyadocite - E facing very exposed to strong E winds and sea breezes - salt spray from beach 600 m below probable.

Soil Only in small pockets, skeletal.

Rock Type Medium-large jointed rhyadocite (red-brown and grey inside).

Vegetation *Ipomoea costata* open shrubland over *Themeda* sp. *Burrup* (B84), *Paspalidium tabulatum* scattered tussock grasses with *Canavalia rosea* very open lianes.

Veg Condition Excellent - no weeds.

Fire Age

Notes Sample only included rockpile and small pockets. It did not include grassed narrow corridors running up rockpile. Site is very exposed and probably slightly salt spray impacted from long beach below.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Canavalia rosea</i>	5-10	5-10%	4 m		sprawling
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	45 cm		
	<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	1.5 m	A127-2	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.5		
	<i>Indigofera trita</i>	+	<1 %	30-35 cm		

<i>Ipomoea costata</i>	<5	1-5%	1 m		
<i>Mukia maderaspatana</i>	+	<1 %	1 m	A127-1	vine
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	40 cm		
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	<2	1-5%	1.25 m		
<i>Sorghum plumosum</i>	+	<1 %	50 cm		Not usual habitat.
<i>Themeda</i> sp. Burrup (B84)	+	<1 %	30 cm		
<i>Tinospora smilacina</i>	+	<1 %	40 cm		vine
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	45 cm	A127-3	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	1 m		
<i>Trichosanthes cucumerina</i>	+	<1 %	1.5 m		

Angel Island Site A128

Described by VLL **Date** 31/05/00 **50 x 2-4 m**

Location West end surfers' beach, drainage gully beneath sites A126 and A127 (W side Angel)

Air Photo **Photo** 18 **on Roll** F2? **Video** N **E Photo**

Photo Notes

AMG Zone 50 479342mE, 7734638mN

Habitat Shallow drain running from higher *Triodia epactia* (Burrup form) slopes down to swale and beach. Stony, with cobbles and small rocks.

Soil Sandy, grey-brown.

Rock Type Cobbles and small rocks, grey; soil deeper towards lower end of drain.

Vegetation *Triodia angusta* (Burrup form) hummock grassland with *Stemodia grossa* open herbland.

Veg Condition Excellent - no weeds.

Fire Age N/A

Notes Gully is narrow and cobbly on upper slope; becomes broader and more densely grassed at lower slopes. Sample stopped when grassed area became too obviously different. Sample only 2-4 m x 50 m.

Rock Pile Notes See sketch on A127.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia orthocarpa</i>	+	<1 %			lower drain
	<i>Bulbostylis barbata</i>	+	<1 %	20 cm		
	<i>Canavalia rosea</i>	+	<1 %	1 m		spreading
	<i>Corchorus walcottii</i>	+	<1 %	35 cm		
	<i>Cynanchum floribundum</i>	+	<1 %			lower drain
	<i>Gomphrena cunninghamii</i>	+	<1 %	10 cm		
	<i>Goodenia microptera</i>	+	<1 %	30 cm		
	<i>Indigofera linifolia</i>	+	<1 %	25 cm		
	<i>Indigofera trita</i>	+	<1 %	40 cm		
	<i>Mukia maderaspatana</i>	+	<1 %			
	<i>Panicum decompositum</i>	+	<1 %	50 cm	A128-3	
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	20 cm		
	<i>Pluchea rubelliflora</i>	+	<1 %	40 cm	A128-1	
	<i>Pterocaulon sphacelatum</i>	+	<1 %	35 cm		
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	20 cm		grey-green
	<i>Sorghum plumosum</i>	+	<1 %	30-40 cm		
	<i>Stemodia grossa</i>	20	10-25%	30-40 cm	A128-4	
	<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %		A128-5	
	<i>Themeda</i> sp. Burrup (B84)	+	<1 %	45 cm	A128-2	
	<i>Triodia angusta</i> (Burrup Form)	40-50	33.3-50%	40 cm		

Angel Island Site A129**Described by** VLL **Date** 31/05/00**Location** Dunes along surfers' beach, W side Angel Island.**Air Photo** **Photo** 21 **on Roll** F2 **Video** N **E Photo****Photo Notes****AMG Zone** 50 479550mE, 7735055mN**Habitat** Narrow crest and seaward side of foredune along surfers' beach.**Soil** White, fine-medium beach sand with shell fragments.**Rock Type** N/A**Vegetation** Scaevola crassifolia low shrubland over Spinifex longifolius, Whiteochloa airoides hummock/tussock grassland**Veg Condition** Excellent - no weeds. Beach side, no kapok.**Fire Age** N/A**Notes** Long, relatively low (1.5 m) foredune, paralleling beach. Relatively dense Spinifex longifolia. Runs E-W, therefore less exposed to easterlies and westerlies. Relatively wide beach 30-40 m gives some tidal surge protection perhaps.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	+	<1 %	80 cm		one only
	Ammannia auriculata	+	<1 %			
	Ammannia baccifera	+	<1 %		VLL22	
	Atriplex isatidea	+	<1 %	1 m	A129-5	
	Canavalia rosea	+	<1 %	2 m		climbing and spreading
	Cleome viscosa	+	<1 %	30 cm		
	Eulalia aurea	+	<1 %	45 cm	A129-4	
	Euphorbia sp. (BPBS2)	+	<1 %	25 cm	A129-7	
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	25 cm	A129-2	
	Fimbristylis elegans	+	<1 %	25 cm		
	Ptilotus villosiflorus	+	<1 %	2 cm		
	Salsola tragus	+	<1 %	20 cm		
	Scaevola anachusifolia	<2	1-5%	35 cm	A129-3	
	Scaevola crassifolia	15-20%	10-25%	45 cm		
	Scaevola cunninghamii	<2	1-5%	30 cm	A129-1	sterile
	Spinifex longifolius	40-50	33.3-50%	0.8-1 m		
	Threlkeldia diffusa	+	<1 %	40 cm		
	Whiteochloa airoides	20	10-25%	90 cm	A129-6	

Angel Island Site A133**Described by** ASW **Date** 31/05/00**Location** Rockpile facing ocean NW of A120.**Air Photo** **Photo** Y **on Roll** AS **Video** N **E Photo****Photo Notes** 2,3,4,5.**AMG Zone** 50 479176mE, 7733732mN 479148mE, 7733758mN**Habitat** Moderately steep rocky slope with patches and vertical bands of shrubby and herbaceous vegetation (and vines).**Soil** None visible.**Rock Type** Cobbles-boulders over 100% of slope. Rock rounded to angular, all fine-medium grain dark grey with quartz flecks.**Vegetation** [Inadequate data recorded for a vegetation description to be compiled.]**Veg Condition** Excellent-very good.**Fire Age**

Notes Most of the slopes in this valley are Themeda, partly burnt a few years ago.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Canavalia rosea	+	<1 %	40 cm		
	Capparis spinosa var. nummularia	+	<1 %	40 cm		
	Cymbopogon ambiguus	+	<1 %			
	Ficus opposita var. indecora	+	<1 %			
	Flueggea virosa subsp. melanthesoides	+	<1 %	2.5 m		
	Ipomoea costata	+	<1 %			
	Mukia maderaspatana	+	<1 %			
	Paspalidium tabulatum (Burrup Form)	+	<1 %			
	Phyllanthus ciccoides	+	<1 %			shrub
	Rhagodia eremaea	+	<1 %			
	Rhynchosia cf. minima	+	<1 %	40 cm		
	Themeda sp. Burrup (B84)	+	<1 %	60 cm		
	Trachymene aff. oleracea (B61)	+	<1 %	30 cm		
	Trichosanthes cucumerina	+	<1 %			

Angel Island Site A140

Described by MET **Date** 31/05/00

Location Angel Island, southern part.

Air Photo **Photo** 10 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 478586mE, 7733408mN 478602mE, 7733451mN

Habitat Steeply sloping E facing rockpile slope.

Soil Gravelly (angular) pebbly light brown loamy fine sand.

Rock Type Dark grey fine to medium grained volcanic?igneous.

Vegetation Ficus opposita var. indecora, Flueggea virosa ssp. melanthesoides scattered tall shrubs over Rhagodia eremaea, Cajanus cinereus scattered shrubs over Triodia angusta (Burrup form) scattered hummock grasses.

Veg Condition Excellent

Fire Age >10 yrs

Notes Included vegetation at end of length (next to Peg 2). It's nor much vegetation cover on rockpile.

Rock Pile Notes Some outcrop, mostly medium to large boulders, angular, some small narrow slopes with more cobbles.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	1 m	A140-4	sticky. At upper edge
	Cajanus cinereus	+	<1 %	1.3 m	A140-5	
	Canavalia rosea	+	<1 %	70 cm		
	Capparis spinosa var. nummularia	+	<1 %	1.2 m		
	Ficus opposita var. indecora	+	<1 %	2.6 m	A140-1	
	Flueggea virosa subsp. melanthesoides	+	<1 %	2.4 m		
	Indigofera trita	+	<1 %	20 cm		
	Malvastrum americanum	+	<1 %	40-80 cm	A140-3	
	Mukia maderaspatana	+	<1 %	70 cm	A140-2	
	Paspalidium tabulatum (Burrup Form)	+	<1 %	15-35 cm		
	Phyllanthus ciccoides	+	<1 %	1.2		
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	20-40 cm		
	Pittosporum phylliraeoides var. phylliraeoides	+	<1 %	0.75-1.2		
	Ptilotus exaltatus var. exaltatus	+	<1 %	40 cm		At upper edge only
	Rhagodia eremaea	+	<1 %	1.6 m		
	Sesbania cannabina	+	<1 %	2 m	A140-6	common. At lower edge
	Sorghum plumosum	+	<1 %			At lower edge only.

<i>Tinospora smilacina</i>	+	<1 %	1.7 m
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	30 cm
<i>Triodia angusta</i> (Burrup Form)	1-2	1-5%	40-70 cm

Angel Island Site A141

Described by MET **Date** 31/05/00

Location Angel Island, East.

Air Photo **Photo** **on Roll** **Video** Y **E Photo** 211-13

Photo Notes

AMG Zone 50 478660mE, 7733306mN 478669mE, 7733330mN 478739mE, 7733328mN 478730mE, 7733300mN

Habitat Small plain.

Soil Fine brown sand, with numerous small holes

Rock Type

Vegetation *Stylobasium spathulatum* scattered shrubs to open shrubland over *Sorghum plumosum* tussock grassland.

Veg Condition Very good.

Fire Age ?

Notes Incomplete recording.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Aerva javanica</i>	<1	<1 %	50-70 cm	
	<i>Alysicarpus muelleri</i>	+	<1 %	70 cm	
	<i>Aristida holathera</i> var. <i>holathera</i>	+	<1 %	55 cm	
	<i>Boerhavia burbidgeana</i>	+	<1 %	15 cm	A141-2
	<i>Cenchrus ciliaris</i>	+	<1 %	60 cm	
	<i>Chrysopogon fallax</i>	+	<1 %	70 cm	
	<i>Cleome viscosa</i>	+	<1 %	30 cm	
	<i>Corchorus tridens</i>	+	<1 %	50 cm	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	75 cm	
	<i>Dichanthium sericeum</i> subsp. <i>humilius</i>	+	<1 %	20 cm	
	<i>Digitaria ctenantha</i>	+	<1 %	50 cm	died off
	<i>Enneapogon polyphyllus</i>	+	<1 %	35 cm	
	<i>Euphorbia coghlanii</i>	+	<1 %	50 cm	{Recorded twice}
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %		
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	15 cm	A141-1
	<i>Flaveria australasica</i>	+	<1 %	40-70 cm	
	<i>Gymnanthera cunninghamii</i>	>+/-1	1-5%	50-90 cm	
	<i>Indigofera linnaei</i>	+	<1 %	20 cm	
	<i>Indigofera trita</i>	+	<1 %	40 cm	May also be Ind.
	<i>Ipomoea costata</i>	+	<1 %	70 cm	
	<i>Melhania</i> sp. <i>Fortescue</i> (M33-22)	+	<1 %	30-60 cm	narrow grey
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	30-75 cm	
	<i>Pterocaulon sphacelatum</i>	+	<1 %	20 cm	common
	<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	+	<1 %	40 cm	
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	80 cm	grey
	<i>Salsola tragus</i>	+	<1 %	70 cm	
	<i>Setaria verticillata</i>	+	<1 %	60 cm	
	<i>Sida</i> aff. <i>fibulifera</i> (D109)	+	<1 %		A141-11
	<i>Sida</i> aff. <i>fibulifera</i> (oblong; MET 15 220)	+	<1 %	55 cm	A141-10
	<i>Sorghum plumosum</i>	>40	33.3-50%	0.8-1.4 m	
	<i>Stylobasium spathulatum</i>	2-3	1-5%	0.7-1.2 m	
	<i>Tribulus occidentalis</i>	+	<1 %		A141-?
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	60 cm	
	<i>Triraphis mollis</i>	+?	<1 %	40-60 cm	
	<i>Whiteochloa airoides</i>	+	<1 %	90 cm	

Burrup Peninsula quadrats

Burrup Peninsula Site B001

Described by VLL **Date** 20/05/00 50 x 50m

Location 350m SE of Hearson Cove Road, on upper slope to crest of hill.

Air Photo **Photo** 25 **on Roll** M1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 476850mE, 7717849mN 476802mE, 7717796mN

Habitat NW facing gentle rocky hill slope with very small rockpile. Upper slope to crest. Scattered rocks on surface.

Soil Skeletal red silty soil with small-medium rocks and boulders on slope (30-60cm)

Rock Type

Vegetation Tephrosia aff supina (MET 12,357) low open annual shrubland over Triodia epactia (Burrup form), Themeda sp. Burrup (B84), Cymbopogon ambiguus closed hummock/tussock grassland with Rhynchosia cf. minima very open lianes.

Veg Condition Very Good, but drying out

Fire Age N/A

Notes .

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	<1 %		20 cm	B1-28,35	{Recorded twice}
	Boerhavia gardneri	<1 %		15-60cm	B1-5,17	{Recorded twice}
	Bonamia media var. villosa	<1 %		5 cm	B1-24,42	sprawling,
	Cajanus cinereus	<1 %		30 cm	B1-11	
	Cleome viscosa	<1 %		30 cm	B1-34	
	Corchorus walcottii	<1 %		30 cm	B1-37,26	{Recorded twice}
	Crotalaria medicaginea (Burrup form; B65-11)	<1 %		25 cm	B1-12	
	Cullen stipulaceum				B1-31	
	Cymbopogon ambiguus	5	5-10%	50 cm	B1-18	
	Dichrostachys spicata	<1 %		1-10m		
	Evolvulus alsinoides var. villosicalyx	<1 %		20 cm	1-20,10	
	Gomphrena cunninghamii	<1 %		15 cm	B1-40	{Recorded twice}
	Goodenia microptera	<1 %		25 cm	B1-22	
	Grevillea pyramidalis subsp. pyramidalis	<1 %		1m		
	Hibiscus sturtii var. campylochlamys	<1 %		20-30 cm	1-32,27,41	
	Hybanthus aurantiacus	<1 %		30 cm	B1-21	
	Indigofera colutea	<1 %		20 cm	B1-29	
	Indigofera linifolia	<1 %		20 cm	B1-25,30	{Recorded twice}
	Indigofera monophylla (Burrup form)	<1 %		30 cm	B1-16,6	{Recorded twice}
	Mollugo molluginis	<1 %		20 cm		
	Mukia maderaspatana	<2	1-5%	20-60 cm	B1-1,33,	sprawling, 1mo/s P2
	Paspalidium clementii	<1 %		8 cm	B1-38	
	Polycarpaea longiflora (red form)	<1 %		15cm		
	Rhynchosia cf. minima	2	1-5%	10 cm	B1-2	sprawling
	Tephrosia aff. supina (MET 12,357)	10	5-10%	15 cm	B1-36	mauve
	Themeda sp. Burrup (B84)	45	33.3-50%	25 cm	B1-3	
	Trachymene aff. oleracea (B61)	<1 %		1-5 cm	B1-23	
	Trichodesma zeylanicum var. zeylanicum	<1 %		35 cm		
	Triodia epactia (Burrup Form)	65	50-75%	40 cm	B1-14	
	Triumfetta appendiculata (Burrup Form)	<1 %		40cm	B1-7,15,19	{Recorded three times}
	Triumfetta clementii	<1 %		20 cm	B1-4,13	{Recorded twice}

Burrup Peninsula Site B002

Described by ASW **Date** 20/05/00

Location Slope of rockpile immediately SE of track running along base. Access from Woodside lay-down area on SE side of Hearson Cove road.

Air Photo **Photo** 16A,17A **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 477084mE, 7717940mN

Habitat Rockpile, steep slope

Soil

Rock Type

Vegetation Ehretia saligna var. saligna, Brachychiton acuminatus scattered low trees to low open woodland over Flueggea virosa subsp. melanthesoides scattered tall shrubs over Dichrostachys spicata, Acacia coriacea subsp. coriacea, Rhagodia eremaea, Alectryon oleifolius, Commicarpus australis scattered shrubs to open shrubland over Enchylaena tomentosa, *Aerva javanica, Capparis spinosa var. nummularia scattered low shrubs over *Cenchrus ciliaris, Triodia epactia (Burrup form) very open tussock/hummock grassland with Rhynchosia cf. minima very open lianes.

Veg Condition Good-Very Good-Excellent

Fire Age >10 years

Notes Rockpile vegetation with grassland elements. Peg 1 - Peg 2 is a straight line, but the boundary of the plot follows the edge of the grassland to the top of the slope. This site was recorded as two plots or more, but entered as one for data aggregation.

Rock Pile Notes Boulders mainly 20 cm to >100 cm dia.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	45-60 cm	B2-28,15	{Recorded twice}
	Acacia coriacea subsp. coriacea	2	1-5%	1.5 m	B2-3	
	Aerva javanica	2	1-5%	90 cm	B2-6	
	Alectryon oleifolius	+	<1 %	1.5 m	B2-4	
	Boerhavia gardneri	+	1-5%	20 cm	B2-16	
	Brachychiton acuminatus	+	<1 %	2.1 m	B2-22	
	Capparis spinosa var. nummularia	1	1-5%	50 cm	B2-21	
	Cenchrus ciliaris	5-8	5-10%	80 cm	B2-10	
	Chrysopogon fallax	+	<1 %	1.1 m	B2-13	
	Cleome viscosa	+	1-5%	30 cm	B2-9	
	Clerodendrum tomentosum	+	<1 %	30 cm	B2-36	young
	Commicarpus australis	2	1-5%	1.9 m	B2-7	
	Dichrostachys spicata	1	1-5%	1.5 m	B2-1	
	Dicliptera armata	+	<1 %	40 cm	B2-32	
	Ehretia saligna var. saligna	2-5	1-5%	4.5 m	B2-20	
	Enchylaena tomentosa	+	<1 %	1.2 m	B2-5	
	Ficus platypoda var. G	+	<1 %	2.5 m	B2-35	
	Flueggea virosa subsp. melanthesoides	2-3	1-5%	2 m	B2-19	
	Ipomoea costata	+	<1 %	2 m	B2-34	
	Jasminum didymum subsp. lineare	+	<1 %	50 cm	B2-29	
	Melhania sp. Burrup	+	<1 %			
	Melhania sp. Fortescue (M33-22)	+	<1 %	50 cm	B2-33	
	Mukia maderaspatana	+	<1 %	20 cm	B2-24	
	Paspalidium tabulatum (Burrup Form)	1	1-5%	20 cm	B2-12	
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	50 cm	B2-17	
	Pittosporum phylliraeoides var. phylliraeoides	+	<1 %	1 m	B2-30	
	Rhagodia eremaea	1	1-5%	1.5-1.8m	B2-2,23	{Recorded twice}
	Rhynchosia cf. minima	5	5-10%	1.5 m	B2-8	
	Scaevola spinescens (narrow form)	+	<1 %	1.7 m	B2-27	
	Solanum horridum	+	<1 %	20 cm	B2-14,31	(recorded twice)
	Tinospora smilacina	+	<1 %	1.8	B2-26	
	Trichodesma zeylanicum var. zeylanicum	+	<1 %		B2-18	
	Trichosanthes cucumerina	+	<1 %	1 m	B2-25	
	Triodia epactia (Burrup Form)	+	<1 %	20 cm	B2-11	

Burrup Peninsula Site B003**Described by** MET **Date** 20/05/00 50 x 10-20**Location** South side of King Bay to Hearsons Cove track.**Air Photo** **Photo** 27 **on Roll** M 1 **Video** N **E Photo****Photo Notes****AMG Zone** 50 476806mE, 7717640mN 476833mE, 7717601mN**Habitat** Small gully, north facing, runs up a boulder scree slope.**Soil** Red-brown gravelly loam amongst cobbles and boulders.**Rock Type** Volcanic, dark grey, fine grained.**Vegetation** *Corymbia hamersleyana* low open woodland over *Dichtostachys spicata*, *Acacia coriacea* subsp. *coriacea*, *Acacia coleii* high open shrubland over *Themeda* sp. Burrup (B84), *Chrysopogon fallax*, *Triodia epactia* (Burrup form) very open tussock/hummock grassland with *Dicliptera armata* very open annual hermland.**Veg Condition** Very good - excellent. Some fire damage to *Corymbia*.**Fire Age** +/- 5-10 yrs**Notes** Recorded to the edges of the rockpiles on both sides. Site much smaller than 50x50 m, was 50 m long and 10-20 m wide. More *Triodia* at the mouth of the gully, also more *Chrysopogon*.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	80 cm	B3-15	
	<i>Acacia coleii</i>	+	<1 %	1.7-2.3 m	B3-1	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.2 m	B3-7	
	<i>Aerva javanica</i>	+	<1 %	50		
	<i>Alectryon oleifolius</i>	+	<1 %	1.3 m		
	<i>Boerhavia burbidgeana</i>	+	<1 %	15 cm	B3-11	
	<i>Cassia glutinosa</i>	+	<1 %	1.2 m		
	<i>Cenchrus ciliaris</i>	+	<1 %	1 m		
	<i>Chrysopogon fallax</i>	>= 1	1-5%	20 cm	B3-12	
	<i>Cleome viscosa</i>	+	<1 %	30-70 cm		
	<i>Corchorus walcottii</i>	+	<1 %	25 cm	B3-17	low spreading to 90 cm
	<i>Corymbia hamersleyana</i>	<5	1-5%	3-5 m		
	<i>Cymbopogon ambiguus</i>	+	<1 %	60 cm	B3-4	
	<i>Dichrostachys spicata</i>	1-5	1-5%	1.6-3+ m		
	<i>Dicliptera armata</i>	5-10	5-10%	30 cm	B3-5	
	<i>Enchylaena tomentosa</i>	+	<1 %	50-140		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2 m		
	<i>Gomphrena cunninghamii</i>	+	<1 %	15 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	60 cm		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	90 cm	B3-2	
	<i>Ipomoea costata</i>	+	<1 %	2+ m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1.5		
	<i>Melhania</i> sp. Burrup	+	<1 %	40 cm	B3-9	
	<i>Mukia maderaspatana</i>	+	<1 %	1.4 m	B3-8	
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	60 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	50 cm		
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	50 cm	B3-6	
	<i>Rhagodia eremaea</i>	+	<1 %	1.5 m	B3-16	
	<i>Rhynchosia</i> cf. <i>minima</i>	+/- 1	<1 %	15 (140)	B3-14	not sticky
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+/- 1	<1 %	20 cm	B3-13	sticky
	<i>Solanum horridum</i>	+	<1 %	20 cm	B3-19	
	<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	30 cm	B3-20	mauve
	<i>Terminalia supranitifolia</i>	+	<1 %	1.7-2m+		
	<i>Themeda</i> sp. Burrup (B84)	+/- 1	<1 %	20 cm	B3-10	
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	25 cm	B3-21	

Trichodesma zeylanicum var. zeylanicum	+	<1 %	30	
Triodia epactia (Burrup Form)	+/- 1	<1 %	40 cm	B3-18
Triumfetta appendiculata (Burrup Form)	+	<1 %	80 cm	B3-3

Burrup Peninsula Site B004

Described by VLL **Date** 20/05/00 5m x100m

Location Approx. 300 m S of Hearson Cove Road. Shallow, narrow drainage gully flowing N - S.

Air Photo **Photo** 26 **on Roll** M1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 476776mE, 7717726mN 476750mE, 7717829mN

Habitat Shallow, narrow drainage gully S->N on N side of rockpile ridge, draining down towards saline flats (Hearson Cove Rd.).

Soil Skeletal

Rock Type Small rocks and large pebbles, red and grey.

Vegetation Ehretia saligna var. saligna, Corymbia hamersleyana scattered tall shrubs to low trees over Grevillea pyramidalis subsp. pyramidalis, Acacia coriacea subsp. coriacea scattered shrubs over Corchorus walcottii low shrubland to low open heath over Triodia epactia (Burrup form), Themeda sp. Burrup (B84) hummock/tussock grassland to closed hummock/tussock grassland.

Veg Condition VG - Drainage line, therefore naturally disturbed.

Fire Age N/A

Notes Narrow drainage gully, no more than 5 m wide. Transect along x 100 m, staying within the actual gully.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	15 cm	B4-17	??
	Acacia coriacea subsp. coriacea	+	<1 %	1 m		
	Aerva javanica	+	<1 %	40 cm		
	Boerhavia coccinea (form A)	+	<1 %	20 cm	B4-19	
	Boerhavia sp.	+	<1 %	30 cm	B4-23	
	Cenchrus ciliaris	+	<1 %	30 cm		
	Chrysopogon fallax	+	<1 %	80 cm	B4-26	
	Cleome viscosa	+	<1 %	20 cm		
	Corchorus walcottii	40	33.3-50%	45 cm	B4-1	
	Corymbia hamersleyana	+	<1 %	2 m		
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	20 cm	B4-14	
	Crotalaria novae-hollandiae subsp.	+	<1 %	25 cm		
	Cymbopogon ambiguus	+	<1 %	1.10 m	B4-21	
	Dichrostachys spicata	+	<1 %	1.10 m		
	Dicliptera armata	+	<1 %	25 cm	B4-16	
	Ehretia saligna var. saligna	+	<1 %	1-2.5m		
	Enchylaena tomentosa	+	<1 %	80 cm		
	Eriachne tenuiculmis	+	<1 %	30 cm	B4-15	
	Evolvulus alsinoides var. villosicalyx	+	<1 %		B4-4	
	Gomphrena cunninghamii	+	<1 %	15 cm		
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	1 m		
	Hibiscus sturtii var. campylochlamys	+	<1 %	20 cm	B4-18,20	{Recorded twice}
	Indigofera monophylla (Burrup form)	+	<1 %	20 cm		
	Melhania sp. Burrup	+	<1 %	30 cm	B4-12	
	Mukia maderaspatana	+	<1 %		B4-24	sprawling
	Paspalidium clementii	+	<1 %	3 cm	B4-11	
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	25 cm	B4-8	
	Polycarpaea longiflora (red form)	+	<1 %	25 cm		{Recorded twice}
	Rhagodia eremaea	+	<1 %	75 cm	B4-10	
	Rhynchosia cf. minima	+	<1 %		B4-6	
	Solanum horridum	+	<1 %	25 cm	B4-25	

<i>Stemodia grossa</i>	+	<1 %	40 cm	B4-27	
<i>Streptoglossa decurrens</i>	+	<1 %	25 cm	B4-22	
<i>Swainsona formosa</i>	+	<1 %	25 cm		
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %		B4-3	mauve
<i>Themeda</i> sp. <i>Burrup</i> (B84)	50	33.3-50%			
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	7 cm	B4-9	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	50 cm	B4-5	
<i>Triodia epactia</i> (Burrup Form)	70	50-75%	40 cm	B4-13	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	40 cm	B4-2	
<i>Triumfetta clementii</i>	+	<1 %	30 cm	B4-7	

Burrup Peninsula Site B005

Described by VLL **Date** 20/05/00 100 x 25

Location 150 m W of Snake Gully (Hearson Cove petroglyph valley) and 500 m S of Hearson Cove road.

Air Photo **Photo** 22 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 477692mE, 7717938mN 477644mE, 7717848mN

Habitat Broad drainage area, low lying narrow "valley" between high rocky ridges to E and W. Drainage line runs N<->S, vegetation dense, mid to low level with occasional *Eucalyptus victrix*.

Soil Light brown sandy alluvial soil with small pebbles and rocks from 1-20 cm diameter. Rocks are coarse grained, pale brownish cream to pale pink and grey.

Rock Type

Vegetation *Eucalyptus victrix* scattered low trees over *Stylobasium spathulatum*, *Dichrostachys spicatum* open heath over *Corchorus walcottii* low shrubland over *Triodia angusta* (Burrup form), **Cenchrus ciliaris*, *Themeda* sp. *Burrup* (B84), *Triodia epactia* (Burrup form) tussock/hummock grassland to tussock/hummock closed grassland

Veg Condition Excellent.

Fire Age N/A

Notes Transect runs along the broad drainage area from N->S.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	+	<1 %	1.25 m		
	<i>Acacia coleii</i>	+	<1 %	1.75 cm	B5-24	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	2 m		
	<i>Acacia orthocarpa</i>	+	<1 %	60 cm	B5-31	
	<i>Acacia pyrifolia</i> (green)	+	<1 %	1.75 m	B5-27	
	<i>Adriana tomentosa</i>	+	<1 %	70 cm	B5-19	Maybe B5-18
	<i>Aerva javanica</i>	+	<1 %	50 cm		
	<i>Alectryon oleifolius</i>	+	<1 %	1.25 m		
	<i>Boerhavia coccinea</i> (form A)	+	<1 %		B5-39	trailing 50 cm leafless
	<i>Cajanus cinereus</i>	+	<1 %	70 cm		
	<i>Cassia glutinosa</i>	+	<1 %	1.25 m		
	<i>Cassytha capillaris</i>	+	<1 %		B5-6	sprawling
	<i>Cenchrus ciliaris</i>	30	25-33.3%			
	<i>Cleome viscosa</i>	+	<1 %	30 cm		
	<i>Corchorus walcottii</i>	2	1-5%	25 cm	B5-16,5,26	B5-40 {Recorded 4
	<i>Corymbia hamersleyana</i>	+	<1 %	3.5 m	B5-30	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	40 cm	B5-9	
	<i>Cymbopogon ambiguus</i>	2	1-5%	1.1 m	B5-28	
	<i>Dichrostachys spicata</i>	5	5-10%	1.75 m		
	<i>Dicliptera armata</i>	5	5-10%	40 cm		
	<i>Digitaria ctenantha</i>	+	<1 %	45 cm	B5-35	
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2.25 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	70 cm		

<i>Eucalyptus victrix</i>	1	1-5%	3-4 m		
<i>Euphorbia biconvexa</i>	+	<1 %	35 cm	B5-33	
<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	1 m	B5-25	
<i>Gossypium robinsonii</i>	+	<1 %	1.1 m	B5-17	
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	2 m		
<i>Indigofera linifolia</i>	+	<1 %	25 cm	B5-10	
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %		B5-13	
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	25 cm	B5-32	{Recorded twice}
<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	40 cm	B5-2	
<i>Malvastrum americanum</i>	+	<1 %	30 cm	B5-11,37	{Recorded twice}
<i>Melhania</i> sp. Burrup	+	<1 %	30 cm	B5-7	
<i>Mukia maderaspatana</i>	+	<1 %		B5-22	sprawling
<i>Operculina aequisejala</i>	+	<1 %	1.5 m	B5-38	trailing leafless.
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	45 cm	B5-18	Maybe B5-19, dead
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	20 cm		
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %	2 m		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %			grey/green sprawling
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %		B5-12	viscid, sprawling
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1 m	B5-29	
<i>Sesbania cannabina</i>	+	<1 %	1.25 m	B5-36	
<i>Sida</i> aff. <i>fibulifera</i> (oblong; MET 15 220)	+	<1 %	20 cm	B5-15	
<i>Stemodia grossa</i>	+	<1 %	20 cm	B5-8	
<i>Stylobasium spathulatum</i>	30	25-33.3%	1.5 m	B5-1	
<i>Swainsona formosa</i>	+	<1 %	30 cm +		
<i>Themeda</i> sp. Burrup (B84)	20	10-25%	50 cm	B5-20	
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	45 cm	B5-34	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	90 cm		
<i>Triodia angusta</i> (Burrup Form)	65	50-75%	90 cm		
<i>Triodia epactia</i> (Burrup Form)	15	10-25%	35 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	25 cm	B5-3,4	{Recorded twice}
<i>Waltheria indica</i>	+	<1 %	45 cm	B5-21	

Burrup Peninsula Site B006

Described by ASW **Date** 20/05/00

Location Colluvial/alluvial flat near parking area at end of track to petroglyph site from Hearson Cove road.

Air Photo **Photo** 18A **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 477925mE, 7718120mN 477915mE, 7718190mN

Habitat Flat to gentle slope in valley. Alluvial (probably) with high proportion of soil.

Soil Red-brown loamy clay.

Rock Type Gravel <10-20 cm.

Vegetation *Acacia bivenosa* scattered tall shrubs over *Dichrostachys spicata* scattered shrubs over *Indigofera trita*, *Indigofera linnaei* low shrubland over *Triodia angusta* (Burrup form), *Triodia epactia* (Burrup form), *Chrysopogon fallax* closed hummock/tussock grassland with *Stemodia grossa* open herbland.

Veg Condition Good-Very Good - some dead taller shrubs and a presence of **Aerva javanica* and **Cenchrus ciliaris*.

Fire Age

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	30 cm	B6-42	
	<i>Acacia bivenosa</i>	2	1-5%	2 m	B6-18	
	<i>Aerva javanica</i>	+	<1 %	30 cm	B6-45	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	5-20 cm	B6-34,31	{Recorded twice}

<i>Cassytha capillaris</i>	10?	5-10%	50 cm	B6-11	
<i>Cenchrus ciliaris</i>	5	5-10%	20 cm	B6-24	
<i>Chrysopogon fallax</i>	5	5-10%	5-60 cm	B6-32,4	tufty grass
<i>Corchorus walcottii</i>	1-2	1-5%	15 cm	B6-14	
<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	5	5-10%	40 cm	B6-9	
<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	20 cm	B6-48	
<i>Cymbopogon ambiguus</i>	+	<1 %	5 cm	B6-32	
<i>Dichrostachys spicata</i>	+	<1 %	1 m	B6-50	
<i>Digitaria ctenantha</i>	+	<1 %	15 cm	B6-29	
<i>Euphorbia biconvexa</i>	3	1-5%	30 cm	B6-20	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10-20 cm	B6-17,38	{Recorded twice}
<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	5?	5-10%	10 cm	B6-30	small sedge {Recorded
<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	1.3 m	B6-49	ssp <i>lorea</i>
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	5	1-5%	20 cm	B6-46,10	{Recorded twice}
<i>Indigofera colutea</i>	+	<1 %	10 cm	B6-21	Indigastrum??
<i>Indigofera linifolia</i>	5	5-10%	10 cm	B6-6	
<i>Indigofera linnaei</i>	5	1-5%	10 cm	B6-22,5,41	{Recorded three
<i>Indigofera trita</i>	15	10-25%	20 cm	B6-3	Fabaceae
<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	30 cm	B6-43	
<i>Mukia maderaspatana</i>	+	<1 %	30 cm	B6-40	
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	15 cm	B6-36	grass
<i>Portulaca oleracea</i>	+	<1 %	5 cm	B6-37	
<i>Pterocaulon sphacelatum</i>	2	1-5%	30 cm	B6-27	
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	+	<1 %	5 cm	B6-51	
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	15 cm	B6-47	
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	30 cm	B6-44	
<i>Sida</i> aff. <i>fibulifera</i> (B64-13B)	+	<1 %	20 cm	B6-39	
<i>Sida</i> aff. <i>fibulifera</i> (oblong; MET 15 220)	+	<1 %	10 cm	B6-23	
<i>Solanum horridum</i>	3	1-5%	10 cm	B6-26	
<i>Streptoglossa decurrens</i>	10	5-10%	15 cm	B6-8	
<i>Swainsona formosa</i>	2	1-5%	60 cm	B6-7	
<i>Tephrosia</i> aff. <i>clementii</i> (5)B184	+	<1 %	10 cm	B6-16	"lupin"??
<i>Themeda</i> sp. Burrup (B84)	+	<1 %	40 cm	B6-52	
<i>Trianthema turgidifolia</i>	5?	5-10%	30 cm	B6-12	
<i>Triodia angusta</i> (Burrup Form)	70	50-75%	50 cm	B6-1	
<i>Triodia epactia</i> (Burrup Form)	20	10-25%	50 cm	B6-2	
<i>Triumfetta clementii</i>	3	1-5%	20 cm	B6-19	

Burrup Peninsula Site B007

Described by MET **Date** 20/05/00

Location S of King Bay - Hearson Cove track.

Air Photo **Photo** 24, **on Roll** MB **Video** N **E Photo**

Photo Notes 24, 25 from Roll MB1 - looking up and down creek from same place.

AMG Zone 50 477775mE, 7717788mN 477833mE, 7717689mN

Habitat Small flow line/creek between low rockpile ridges. Has a gentle slope.

Soil Silty coarse sand, brown, amongst cobbles and boulders.

Rock Type Boulders and volcanic rocks, fine to medium grained, grey.

Vegetation *Eucalyptus victrix* scattered low trees over *Acacia coriacea* subsp. *coriacea*, *Acacia bivenosa* scattered tall shrubs over *Flueggia virosa* subsp. *melanthesoides* scattered shrubs over *Triodia angusta* (Burrup form), *Cyperus vaginatus* open hummock grassland/sedgeland with *Sesbania cannabina* tall annual open herbland and *Dicliptera armata* very open low herbland.

Veg Condition Very Good to Excellent.

Fire Age >10 Years

Notes Has small, shallow pools of water in the lowest parts, water flowing very slowly. Small Gastropod feeding on algae on rocks in pools. Where there are more sandy banks there is more *Triodia angusta* (Burrup form). Parts of the bed are mostly boulders with some other parts (near Peg 2)

fairly flat outcrop. Where the creek becomes rockier, the vegetation becomes two strips along the sides; these are very narrow.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	+/-1	<1 %	2-2.5 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	1%	1-5%	3 m		
	<i>Alectryon oleifolius</i>	+	<1 %	1.6 m		
	<i>Brachychiton acuminatus</i>	+	<1 %	2 m		At base of rocks ONLY
	<i>Cassutha capillaris</i>	+	<1 %	30 cm	B7-13	
	<i>Cenchrus ciliaris</i>	+	<1 %	50 cm		
	<i>Cymbopogon ambiguus</i>	+	<1 %	50 cm	B7-2	
	<i>Cyperus vaginatus</i>	5%	1-5%	0.5-1 m		
	<i>Dactyloctenium radulans</i>	+	<1 %	7 cm	B7-4	Annual, dead
	<i>Dichrostachys spicata</i>	+	<1 %	1.3-2+ m		
	<i>Dicliptera armata</i>	<5-15	5-10%	35-70 cm		
	<i>Digitaria ctenantha</i>	+	<1 %	10 cm	B7-8	
	<i>Eleocharis geniculata</i>	+	<1 %	20 cm	B7-10	
	<i>Eragrostis dielsii</i>	+	<1 %	5 cm	B7-9	
	<i>Eriachne tenuiculmis</i>	+	<1 %	25 cm	B7-6	
	<i>Eucalyptus victrix</i>	1%	1-5%	7 m		
	<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	2 m		At base of rocks ONLY
	<i>Ficus virens</i> var. <i>sublanceolata</i>	+	<1 %	2+ m	B7-11	At base of rocks ONLY
	<i>Fimbristylis rara</i>	+	<1 %	20 cm	B7-7	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1%	1-5%	0.5-1.7 m		
	<i>Gossypium robinsonii</i>	+	<1 %	1.5 m		
	<i>Indigofera trita</i>	+	<1 %	15 cm	B7-12	
	<i>Ipomoea costata</i>	+	<1 %	25 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	40 cm		
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %	1-1.7		
	<i>Pluchea rubelliflora</i>	+	<1 %	15 cm		
	<i>Rhagodia eremaea</i>	+	<1 %	1.4 m		At base of rocks ONLY
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+/-1	<1 %	10-50 cm	B7-5	green, sticky
	<i>Sesbania cannabina</i>	15%	10-25%	1-3.5 m	B7-1	
	<i>Stemodia grossa</i>	+	<1 %	50 cm	B7-3	
	<i>Swainsona formosa</i>	+	<1 %	30 cm		
	<i>Terminalia canescens</i>	+	<1 %	0.7-3.8 m		
	<i>Themeda</i> sp. Burrup (B84)	+	<1 %	45 cm	= B3	
	<i>Triodia angusta</i> (Burrup Form)	5%	1-5%	60 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	50 cm	=B3	At base of rocks ONLY

Burrup Peninsula Site B008

Described by VLL **Date** 20/05/00 **150x5-7m**

Location Drainage gully 50 m S of Hearson Village road.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 477528mE, 7719682mN

Habitat Shallow drainage gully 1.5 m wide draining from high rock hills to N into saline flats S. Runs through an undulating Hummock/*Grevillea pyramidalis* plain. Water has dried up but was lying for some time, evidenced by light-whitish grey algal mat on rocks.

Soil Brown-grey medium-coarse alluvial with stones to boulders 5 - 20 cm diameter.

Rock Type Fine-grained grey and yellowish rocks.

Vegetation *Terminalia canescens*, (*Eucalyptus victrix*) low woodland over *Triodia epactia* (Burrup form), *Eriachne tenuiculmis*, *Cyperus vaginatus*, *Cyperus bifax* hummock/tussock grassland/sedgeland with *Dicliptera armata*, *Stemodia grossa* low annual open herbland to low herbland.

Veg Condition Very good to excellent.

Fire Age N/A

Notes Drain begins open - rocks and pebbles with algal mat but by 50 m pebbles become smaller, 5-10 cm, and more alluvial soil -> dense grass cover.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	40 cm	B8-28,39	{Recorded twice}
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	50 cm		
	<i>Acacia pyrifolia</i> (green)	+	<1 %	1 m		
	<i>Ammannia baccifera</i>	+	<1 %	7 cm	B8-1	
	<i>Boerhavia burbridgeana</i>	+	<1 %	15 cm	B8-12	
	<i>Bothriochloa ewartiana</i>	+	<1 %	90 cm	B8-34	Poaceae, dense pop,
	<i>Cassia oligophylla</i>	+	<1 %	90 cm		
	<i>Cenchrus ciliaris</i>	+	<1 %	25 cm		
	<i>Corchorus tridens</i>	+	<1 %	50 cm	B8-23	sprawling
	<i>Corchorus walcottii</i>	+	<1 %	40 cm	B8-13,17	2,{Recorded twice}
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	40 cm	B8-15	
	<i>Cymbopogon ambiguus</i>	+	<1 %	1 m	B8-32	
	<i>Cyperus bifax</i>	3-5%	1-5%	1.25 m	B8-30	
	<i>Cyperus squarrosus</i>	+	<1 %	5 cm	B8-10	
	<i>Cyperus vaginatus</i>	5	5-10%	1.1 m	B8-35,29	
	<i>Dicliptera armata</i>	10-15%	10-25%	30 cm		
	<i>Digitaria ctenantha</i>	+	<1 %	25 cm	B8-11	
	<i>Eriachne tenuiculmis</i>	<5%	1-5%	40 cm	B8-3	
	<i>Eucalyptus victrix</i>	+	<1 %	3.5m		
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	15 cm	B8-21	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.8 m		
	<i>Gomphrena cunninghamii</i>	+	<1 %	25 cm	B8-2	Gom aff cun
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1.10 m		
	<i>Indigofera colutea</i>	+	<1 %	5 cm		
	<i>Indigofera linifolia</i>	+	<1 %	20 cm	B8-4	
	<i>Ipomoea costata</i>	+	<1 %	1.5 m		
	<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	40 cm	B8-8	
	<i>Melhania</i> sp. <i>Fortescue</i> (M33-22)	+	<1 %	28 cm	B8-38	
	<i>Panicum decompositum</i>	+	<1 %		B8-31	blow in ??
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm	B8-5	
	<i>Polycarpaea longiflora</i> (red form)	+	<1 %	25 cm		
	<i>Portulaca pilosa</i>	+	<1 %	20 cm	B8-25	??pilosa
	<i>Pterocaulon sphacelatum</i>	+	<1 %	15-40 cm	B8-22,24	Asteraceae sp. Sterile,
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	40 cm	B8-14	sprawling
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1 m	B8-33,36	{Recorded twice}
	<i>Stemodia grossa</i>	5%	5-10%	10-40 cm	B8-6,37,20	{Recorded three times}
	<i>Stylidium fluminense</i>	+	<1 %	20 cm	B8-26	one only
	<i>Swainsona formosa</i>	+	<1 %	20 cm	B8-27	spreading {Recorded
	<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %	30 cm	B8-9	
	<i>Terminalia canescens</i>	15-20%	10-25%	4cm-1.75	B8-16,7	
	<i>Triodia epactia</i> (Burrup Form)	20-30%	25-33.3%	35 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm	B8-19	
	<i>Triumfetta clementii</i>	+	<1 %	3-20 cm	B8-18	{Recorded twice}

Burrup Peninsula Site B009

Described by ASW **Date** 20/05/00

Location Gentle slope or flat S of flow line, parallel to and on N side of bitumen road to Hearson village, W of road uphill to tanks.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes 19A, 20A of Roll ASW 1

AMG Zone 50 477524mE, 7719755mN 477454mE, 7719794mN

Habitat Colluvial surface, gently rounded and isolated by Hearson road on SE side and flow line on NE, NW sides.

Soil Red-brown loamy clay and rocks.

Rock Type Rounded, to 200 m diameter.

Vegetation Acacia orthocarpa open shrubland over *Indigofera linnaei*, *Indigofera linifolia* low open shrubland over *Triodia wiseana* (Burrup form), **Cenchrus ciliaris* hummock/tussock grassland.

Veg Condition Very good-good, has **Cenchrus ciliaris*.

Fire Age

Notes The *Acacia orthocarpa* shrubs have been heavily browsed, down almost to ground level. The community, especially *Triodia wiseana* (Burrup form), is only S of the flow line and SW to where it is replaced by *Triodia epactia* (Burrup form), which is also N of the flowline.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>lepidum</i> (4)	+	<1 %	20-80 cm	B9-9,45	{Recorded twice}
	<i>Abutilon lepidum</i>	+	<1 %	50 cm	B9-23	=B9-9?
	<i>Acacia bivenosa</i>	+	<1 %	60 cm	B9-3	
	<i>Acacia orthocarpa</i>	5	5-10%	1.10 m	B9-4	
	<i>Boerhavia gardneri</i>	5	5-10%	30 cm	B9-11	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	20 cm	B9-38	
	<i>Cassia glutinosa</i>	+	<1 %	1.3 m	B9-30	
	<i>Cassia oligophylla</i>	+	<1 %	1 m	B9-5	?
	<i>Cenchrus ciliaris</i>	5	5-10%	80 cm	B9-7	
	<i>Cleome viscosa</i>	+	<1 %	20 cm	B9-48	
	<i>Corchorus walcottii</i>	+	<1 %	30 cm	B9-10	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	30-50 cm	B9-32,36	{Recorded twice}
	<i>Dichanthium sericeum</i> subsp. <i>humilius</i>	+	<1 %	40 cm	B9-24	
	<i>Enneapogon caerulescens</i> var. <i>occidentalis</i>	+	<1 %	10 cm	B9-21	
	<i>Eriachne obtusa</i>		<1 %		B9-52	
	<i>Euphorbia biconvexa</i>	+	<1 %	30 cm	B9-20	
	<i>Euphorbia</i> sp. (BPBS10-50)	+	<1 %	5 cm	B9-26	
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	60 cm	B9-13	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+?	<1 %	10 cm	B9-17	
	<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	5	5-10%	10 cm	B9-16	sedge, dead, maybe
	<i>Gomphrena cunninghamii</i>	+	<1 %	10 cm	B9-34	
	<i>Goodenia microptera</i>	+	<1 %	10 cm	B9-42	
	<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	1m	B9-40	
	<i>Hibiscus</i> aff. <i>platychlams</i> (M39-14)	+	<1 %	50 cm	B9-49	
	<i>Hybanthus aurantiacus</i>	+	<1 %	90 cm	B9-29	orange??
	<i>Indigofera linifolia</i>	5	5-10%	25 cm	B9-15	INDLIN???
	<i>Indigofera linnaei</i>	5	5-10%	30 cm	B9-12,35,	{Recorded three
	<i>Mukia maderaspatana</i>	+	<1 %	50 cm	B9-37	
	<i>Oldenlandia crouchiana</i>	+	<1 %	20 cm	B9-46	
	<i>Paspalidium clementii</i>	+	<1 %	5 cm	B9-44	
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	10 cm	B9-43	
	<i>Pentalepis trichodesmoides</i>	5	5-10%	1.1 m	B9-28	
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	10 cm	B9-22	
	<i>Polycarpaea longiflora</i> (red form)	+	<1 %	20 cm	B9-41	
	<i>Polygala</i> sp. (M23-2)	+	<1 %	5 cm	B9-51	
	<i>Pterocaulon sphacelatum</i>	+	<1 %	50 cm	B9-27	=B6-27
	<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	+	<1 %	50 cm	B9-19	
	<i>Rhynchosia</i> cf. <i>minima</i>	5	5-10%	40 cm	B9-6	
	<i>Sida</i> aff. <i>fibulifera</i> (oblong; MET 15 220)	+	<1 %	20 cm	B9-25	
	<i>Solanum phlomoides</i>	+	<1 %	50 cm	B9-50	
	<i>Streptoglossa decurrens</i>	+	<1 %	10 cm	B9-47	
	<i>Swainsona formosa</i>	+	<1 %	60 cm	B9-14	
	<i>Tephrosia</i> aff. <i>clementii</i> (4) (M35-14)	+	<1 %	20 cm	B9-18	"lupin"

Tephrosia aff. supina (MET 12,357)	+	<1 %	15 cm	B9-31	mauve
Themeda sp. Burrup (B84)	+	<1 %			
Triodia epactia (Burrup Form)	+	<1 %		B9-2	
Triodia wiseana (Burrup Form)	60	50-75%	50 cm	B9-1	
Triumfetta appendiculata (Burrup Form)	+	<1 %	60 cm	B9-33	large pale flowers??
Triumfetta clementii	+	<1 %	30 cm	B9-8	small

Burrup Peninsula Site B010

Described by MET **Date** 20/05/00

Location N side of King Bay - Hearson Cove road.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 477442mE, 7719921mN 477396mE, 7719909mN

Habitat Rockpile-scrree slope.

Soil Under shrub patches on slope is >5 cm of litter in cracks between rocks. Loose or compact brown loam in places.

Rock Type Volcanic, grey, medium grained.

Vegetation Clerodendrum tomentosum, Brachychiton acuminatus, Ehretia saligna var. saligna scattered low trees over Flueggea virosa subsp. melanthesoides, Acacia coriacea subsp. coriacea tall open shrubland over Dichrostachys spicata, Pittosporum phylliraeoides var. phylliraeoides, Rhagodia eremaea, Scaevola spinescens (narrow form) scattered shrubs over *Aerva javanica, Abutilon fraseri low open shrubland over *Cenchrus ciliaris, Cymbopogon ambiguus, Triodia epactia (Burrup Form) very open tussock/hummock grassland.

Veg Condition Very good - Excellent.

Fire Age >10 years.

Notes Some patches of *Cenchrus ciliaris. Rockpockets <= 10% of the plot. Within them they have cover >60 %.

Rock Pile Notes Is on a corner, part faces almost S and part WSW. Slopes quite steeply. Has some outcrop. Near lower edge, cobbles and small boulders, further up has small to large boulders. Only ca 1-2% soil cover.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. lepidum (4)	+	<1 %	45 cm	B10-8	#
	Abutilon fraseri	+	<1 %	1m		
	Acacia coriacea subsp. coriacea	+	<1 %	2+ m		
	Aerva javanica	<= 1	<1 %	50-90 cm		
	Alectryon oleifolius	+	<1 %	80 cm		
	Brachychiton acuminatus	+	<1 %	5 m		
	Cenchrus ciliaris	+	<1 %			
	Clerodendrum tomentosum	+	<1 %	3 m	B10-1	
	Commelina ensifolia	+	<1 %	15 cm		
	Cymbopogon ambiguus	+	<1 %	70 cm	=B3	
	Dichrostachys spicata	+	<1 %	2 m		
	Dicliptera armata	2-3	1-5%	40 cm		
	Ehretia saligna var. saligna	+	<1 %	3.5-4 m		
	Enchylaena tomentosa	+	<1 %	1.2 m		
	Flueggea virosa subsp. melanthesoides	+	<1 %			
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	2 m		
	Hakea chordophylla	+	<1 %			
	Indigofera monophylla (Burrup form)	+	<1 %	50 cm		#
	Indigofera trita	+	<1 %	40 cm	B10-7	#
	Ipomoea costata	+	<1 %	1.7 m		#
	Jasminum didymum subsp. lineare	+	<1 %	60 cm		
	Mukia maderaspatana	+	<1 %	1.3 m	B10-2	
	Paspalidium tabulatum (Burrup Form)	+	<1 %	50 cm		

<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	60 cm	
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %		
<i>Plumbago zeylanica</i>	+	<1 %	1 m	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	1-1.5 m	
<i>Rhagodia eremaea</i>	+	<1 %	1.4	
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	15 cm	B10-3
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.4 m	=B2
<i>Solanum horridum</i>	+	<1 %	15 cm	B10-4
<i>Terminalia supranitifolia</i>	+	<1 %	2 m	
<i>Tinospora smilacina</i>	+	<1 %	2 m	
<i>Triodia epactia</i> (Burrup Form)	+	<1 %	30 cm	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm	B10-5
<i>Triumfetta clementii</i>	+	<1 %	40 cm	B10-6

Burrup Peninsula Site B011

Described by VLL **Date** 21/05/00 100x30m

Location 30 m S of Hearson, low broad gully after very high rockpiles to W (Plenty River site).

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 477276mE, 7719685mN 477315mE, 7719574mN

Habitat Shallow valley with low drainage areas and fine drainlines (ie no more than 1 m wide, shallow) between very high rockpile hill to W + N, and slightly higher undulating hills to E. Slopes gently to saline flats to S.

Soil Alluvial brown-grey in narrow drainlines and low areas, skeletal red on higher surfaces.

Rock Type

Vegetation *Grevillea pyramidalis* subsp. *pyramidalis* open heath over *Corchorus walcottii* low shrubland over *Triodia epactia* (Burrup form), *Chrysopogon fallax* hummock/tussock grassland.

Veg Condition Excellent.

Fire Age 10-15 years.

Notes This is an atypical, relatively dense, *Grevillea pyramidalis* subsp. *pyramidalis* heathland. Although this is a common species on the Burrup, populations are generally more scattered; rarely more than 2-10%. The density of this population may be due to what appears to be a fire history of ~10-15 years.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Abutilon</i> aff. <i>lepidum</i> (4)	+	<1 %	35	B11-2
	<i>Abutilon lepidum</i>	+	<1 %	10-35 cm	B11-20,29, B11-30 {Recorded
	<i>Acacia bivenosa</i>	+	<1 %	2 m	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.1 m	
	<i>Acacia inaequilatera</i>	+	<1 %	2.1 m	B11-32
	<i>Aerva javanica</i>	+	<1 %	45 cm	
	<i>Alysicarpus muelleri</i>	+	<1 %	10-40 cm	B11-27,17, B11-10,
	<i>Ammannia baccifera</i>	+	<1 %	15 cm	B11-45 drain
	<i>Boerhavia burbridgeana</i>	+	<1 %	25 cm	B11-26
	<i>Boerhavia coccinea</i> (form A)	+	<1 %		B11-13 sprawling
	<i>Boerhavia coccinea</i> (form B)	+	<1 %	to 1 m	B11-16 sprawling
	<i>Bothriochloa ewartiana</i>	+	<1 %	1 m	B11-40 Poaceae
	<i>Cenchrus ciliaris</i>	+	<1 %	30 cm	
	<i>Chrysopogon fallax</i>	15	10-25%	1 m	B11-9 Also B11-18
	<i>Corchorus walcottii</i>	20	10-25%	30 cm	B11-1,35 2, grey-brown stem,
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	25 cm	B11-5
	<i>Cymbopogon ambiguus</i>	+	<1 %	45 cm	B11-46
	<i>Dactyloctenium radulans</i>	+	<1 %	40 cm	B11-25 sprawling
	<i>Dichrostachys spicata</i>	+	<1 %	1.5 m	
	<i>Digitaria ctenantha</i>	+	<1 %	30 cm	B11-6

<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2 m		
<i>Enchylaena tomentosa</i>	+	<1 %	30 cm		
<i>Eragrostis cumingii</i>	+	<1 %	30 cm	B11-28	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	25 cm	B11-7	
<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	+	<1 %	12 cm	B11-19	sterile
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2 m		drain
<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
<i>Goodenia microptera</i>	+	<1 %	35 cm	B11-33,41	{Recorded twice}
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	30-50	33.3-50%	1-1.5 m		
<i>Indigofera linifolia</i>	+	<1 %	25 cm	B11-21	
<i>Indigofera linnaei</i>	+	<1 %	25 cm	B11-23	
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	45 cm	B11-15	
<i>Indigofera trita</i>	+	<1 %	25 cm	B11-3	
<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	40 cm	B11-44	drain, prostrate
<i>Malvastrum americanum</i>	+	<1 %	25 cm	B11-37	
<i>Melhania</i> sp. <i>Fortescue</i> (M33-22)	+	<1 %	25 cm	B11-8	
<i>Mukia maderaspatana</i>	+	<1 %	40 cm	B11-11,38	sprawling,
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	50 cm	B11-24	
<i>Pentalepis trichodesmoides</i>	+	<1 %	40 cm		
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	30 cm		
<i>Pterocaulon sphacelatum</i>	+	<1 %	40 cm	B11-14	see B11-5
<i>Rhagodia eremaea</i>	+	<1 %	1.25 m		
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	1 m		drain
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	80 cm	B11-34	sprawling
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	35-1m cm	B11-39,42,	B11-43, Broad leaf,
<i>Solanum horridum</i>	+	<1 %	30 cm	B11-31	
<i>Stemodia grossa</i>	+	<1 %	30 cm	B11-12,47	{Recorded twice}
<i>Streptoglossa decurrens</i>	+	<1 %	30 cm		
<i>Swainsona formosa</i>	+	<1 %	40 cm		
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	30 cm	B11-4	mauve, sprawling
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	50 cm		
<i>Triodia epactia</i> (Burrup Form)	30-50	33.3-50%	30-40 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm	B11-22	
<i>Triumfetta clementii</i>	+	<1 %	30 cm	B11-36	

Burrup Peninsula Site B012

Described by ASW **Date** 21/05/00

Location SE side of highway on upper SE slope (to rockpile) S of King Bay - flowline to the NE side of plot and creekline past minor ridge on SW side of plot.

Air Photo **Photo** 22A, 24A **on Roll** AS **Video** N E **Photo**

Photo Notes

AMG Zone 50 474637mE, 7716676mN 474699mE, 7716708mN

Habitat Rock slope between rockpiles and gentle colluvial slope.

Soil Sparse, skeletal; red-brown loamy clay, between rocks.

Rock Type

Vegetation *Grevillea pyramidalis* subsp. *pyramidalis* scattered shrubs over *Triumfetta appendiculata* (Burrup form) low open shrubland over *Triodia epactia* (Burrup form) hummock grassland with *Rhynchosia* cf. *minima* lianes and *Tephrosia* aff *supina* (MET 12,357) herbland.

Veg Condition Very good

Fire Age > 10 years

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	30 cm	B12-26	
	<i>Acacia pyrifolia</i> (green)	+	<1 %	50 cm	B12-15	green

<i>Boerhavia coccinea</i> (form A)	+	<1 %	50 cm	B12-17B	
<i>Cleome viscosa</i>	1	1-5%	30 cm	B12-30	
<i>Corchorus walcottii</i>	+	<1 %	40 cm	B12-31	
<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	5?	5-10%	40 cm	B12-11	see sheet
<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	30 cm	B12-28	
<i>Dichrostachys spicata</i>	+	<1 %	1.1 m	B12-34	1 poor plant
<i>Dicliptera armata</i>	+	<1 %	20 cm	B12-13	
<i>Euphorbia coghlanii</i>	+	<1 %	60 cm	B12-12	=B9 Eup??
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	1	1-5%	30 cm	B12-23	
<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	+	<1 %	5 cm	B12-33	
<i>Gomphrena cunninghamii</i>	2	1-5%	10 cm	B12-7	
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	<2	1-5%	1.5 m	B12-1	many young, <20 cm
<i>Hybanthus aurantiacus</i>	5	5-10%	10-30 cm	B12-29,18	caterpillar plant' 2
<i>Indigofera colutea</i>	+	<1 %	10 cm	B12-19	
<i>Indigofera linifolia</i>	5	5-10%	40 cm	B12-10	white balls
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	20 cm	B12-14	
<i>Ipomoea costata</i>	+	<1 %	50 cm	B12-21	1plant
<i>Mukia maderaspatana</i>	5	5-10%	50 cm	B12-5	
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	20 cm	B12-32	
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	1	1-5%	50 cm	B12-20	
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	50 cm	B12-9	
<i>Portulaca oleracea</i>	+	<1 %	20 cm	B12-24	
<i>Pterocaulon sphacelatum</i>	1	1-5%	30 cm	B12-16	
<i>Rhynchosia</i> cf. <i>minima</i>	50	33.3-50%	40 cm	B12-4	
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	50	33.3-50%	40 cm	B12-3	mauve
<i>Themeda</i> sp. Burrup (B84)	2	1-5%	70 cm	B12-6	=B14
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	10 cm	B12-22	young
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	20 cm	B12-27	
<i>Triodia epactia</i> (Burrup Form)	50	33.3-50%	40 cm	B12-2	
<i>Triumfetta appendiculata</i> (Burrup Form)	2	1-5%	50 cm	B12-8	=B9, large flower
<i>Triumfetta clementii</i>	2	1-5%	40 cm	B12-25	small, =B9
<i>Boerhavia gardneri</i>	+	<1 %		B12-17a	

Burrup Peninsula Site B013

Described by VLL **Date** 21/05/00 10x100m

Location ~200 m E of Burrup Road.

Air Photo **Photo** **on Roll** **Video** **N** **E** **Photo**

Photo Notes

AMG Zone 50 474678mE, 7716652mN 474620mE, 7716678mN

Habitat Shallow flowline at base of lower slopes, flowing NE-SW; no 'scaloped' drain, just shallow flowline mainly supporting herbland and shrubs on *Triodia epactia* grassland slopes.

Soil Reddish to brown silty soil with small rocks and pebbles 15-25 cm diameter.

Rock Type Fine-grained red-brown rock.

Vegetation *Dichrostachys spicata* open shrubland over *Tephrosia* aff *supina* (MET 12,357), *Indigofera monophylla* (Burrup form), *Triumfetta appendiculata* (Burrup form) low open heath over *Triodia epactia* (Burrup form) hummock grassland.

Veg Condition Excellent.

Fire Age

Notes Relatively dense *Tephrosia* aff *supina* (MET 12,357), *Triumfetta appendiculata* (Burrup form), *Indigofera monophylla* (Burrup form) community with mid-level *Dichrostachys spicata*, *Tephrosia* sp.B Kimberley Flora(C.A.Gardner 7300) , beneath *Triodia* slopes draining down into broad basin. All three species (*Tephrosia* aff *supina* (MET 12,357), *Triumfetta appendiculata* (Burrup form), *Indigofera monophylla* (Burrup form)) are colonisers of semi-moist, naturally disturbed sites.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. lepidum (4)	+	<1 %	20 cm	B13-15	poss. B13-13, sterile
	Acacia pyrifolia (green)	+	<1 %	1.5 m		(mor)
	Achyranthes aspera	+	<1 %		B13-19	Herb under B13-18
	Cenchrus ciliaris	+	<1 %	40 cm		
	Cleome viscosa	+	<1 %	35 cm		
	Corchorus walcottii	+	<1 %	30 cm	B13-7,23	1,2, {Recorded twice}
	Crotalaria novae-hollandiae subsp.	+	<1 %	35 cm		
	Dichrostachys spicata	<5%	1-5%	1.25 m	B13-18b	{Recorded twice}
	Euphorbia biconvexa	+	<1 %	30 cm	B13-17	
	Evolvulus alsinoides var. villosicalyx	+	<1 %	10 cm		
	Gomphrena cunninghamii	+	<1 %	15		
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	1.5 m		
	Hybanthus aurantiacus	+	<1 %	25 cm	B13-14	white, corky stem,
	Indigofera linifolia	+	<1 %	20 cm		
	Indigofera monophylla (Burrup form)	20-30	25-33.3%	40 cm	B13-9	
	Ipomoea optica	+	<1 %	scrambling	B13-18a	Convolvulaceae (on
	Jasminum didymum subsp. lineare	+	<1 %	30 cm	B13-24	
	Mukia maderaspatana	+	<1 %	40cm-1m	B13-16,21	sprawling, {Recorded
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	30 cm	B13-12,11	2, single stem, 1,
	Polycarpaea longiflora (red form)	+	<1 %			
	Pterocaulon sphacelatum	+	<1 %	30 cm	B13-4	
	Ptilotus fusiformis var. fusiformis	+	<1 %	25 cm	B13-3,20	{Recorded twice}
	Rhynchosia cf. minima	+	<1 %	1 m	B13-2	grey-green, sprawling
	Scaevola spinescens (narrow form)	+	<1 %	90 cm	B13-22	
	Solanum horridum	+	<1 %		B13-8	
	Streptoglossa decurrens	+	<1 %	20 cm		sterile
	Tephrosia aff. supina (MET 12,357)	30	25-33.3%	30 cm	B13-1	mauve, scrambling
	Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)	+	<1 %	1 m	B13-10	
	Themeda sp. Burrup (B84)	+	<1 %	40 cm		
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	80 cm		
	Triodia epactia (Burrup Form)	40-50%	33.3-50%	40 cm		
	Triumfetta appendiculata (Burrup Form)	30	25-33.3%	30-40 cm	B13-5	
	Triumfetta cf. propinqua (B13-13)	+	<1 %	30 cm	B13-13	
	Triumfetta clementii	+	<1 %	30 cm	B13-6	{Recorded twice}

Burrup Peninsula Site B014

Described by MET **Date** 22/05/00

Location Pistol ranges adjacent to Burrup Road.

Air Photo **Photo** 18 **on Roll** **MB** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 474725mE, 7716684mN 474684mE, 7716656mN

Habitat Rock (boulder) pile in mid-slope.

Soil Brown loam (a bit greyish) between cobbles and boulders.

Rock Type Volcanic, grey medium grained.

Vegetation Dichrostachys spicata, Flueggia virosa subsp. melanthesoides, Ehretia saligna var. saligna, Acacia coriacea subsp. coriacea scattered tall shrubs over Rhagodia eremaea, Scaevola spinescens (narrow form) scattered shrubs over very open *Cenchrus ciliaris, Triodia epactia (Burrup form) tussock/hummock grassland and Rhynchosia cf. minima low open vines.

Veg Condition Very good to excellent. Presence of the *Cenchrus ciliaris reduces the condition slightly from excellent.

Fire Age

Notes Only has plants around the margins. Recorded out to where the boulders are separated by cracks not soil, and under 'rockpile' shrubs. Only one species (Phyllanthus maderaspatensis) was recorded on the E side and not the W side of the site. Between the rockpile (B14) and ASWs B13 (downslope) there is an area of stabilised cobble/boulder scree with soil between the cobbles.

This has scattered *Dichrostachys spicata*, *Ipomoea costata*, *Tephrosia* sp. and *Grevillea pyramidalis* subsp. *pyramidalis* over *Triodia epactia* (Burrup form) open hummock grassland and scattered *Rhynchosia* cf. *minima*. A similar area 60-70 m S has more (>5%) of the *Tephrosia*. The population of the *Corchorus walcottii* in the immediate area of B13 and B14 has >100 plants. It is quite common in the flowline S of B13.

Rock Pile Notes Tongue of cobbles to boulders (very mixed size range) down a SSW facing slope, soil cover only at edges.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	+	<1 %	1.4 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	2+ m		
	<i>Cenchrus ciliaris</i>	<=1	<1 %	30-60 cm		
	<i>Chrysopogon fallax</i>	+	<1 %	30-70		
	<i>Cleome viscosa</i>	+	<1 %	35 cm		
	<i>Dichrostachys spicata</i>	+	<1 %	2.5 m		
	<i>Dicliptera armata</i>	+	<1 %	30 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	3.2 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	70 cm		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2.8 m		
	<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1.4 m		
	<i>Ipomoea costata</i>	+	<1 %	1.4 m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	50 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	10-35 cm	B14-4	
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	45 cm		
	<i>Rhagodia eremaea</i>	<=1	<1 %	1.6 m		
	<i>Rhynchosia</i> cf. <i>minima</i>	+/-2	1-5%	15-30 cm	B14-1	
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.8 m		
	<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	40 cm		mauve
	<i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)	+	<1 %	1.2 m	B14-5	
	<i>Terminalia supranitifolia</i>	+	<1 %	2.2 m		
	<i>Themeda</i> sp. Burrup (B84)	+	<1 %	50 cm	B14-2	
	<i>Tinospora smilacina</i>	+	<1 %	50 cm		
	<i>Triodia epactia</i> (Burrup Form)	+	<1 %	40 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm	B14-3	

Burrup Peninsula Site B015

Described by VLL **Date** 21/05/00 **5.7 x 55 m**

Location 300 m E of Burrup Road

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 474548mE, 7716602mN

Habitat Rocky gully between rockpile to W and small island and rockpile to E. Stoney/rocky gully.

Soil Brownish-grey alluvial but scarce beneath large rocks.

Rock Type Large, grey, fine-grained rocks 30-70 cm diameter.

Vegetation *Terminalia canescens*, *Eucalyptus victrix* low woodland over *Triodia epactia* (Burrup form), *Eriachne tenuiculmis* hummock/tussuck grassland with *Sesbania cannabina* tall annual herbland.

Veg Condition Excellent

Fire Age N/A

Notes Drainage gully only was sampled, ie very rocky flowline with dense scrub and *Cyperus*.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Ammannia baccifera</i>	+	<1 %	20 cm		

<i>Cenchrus ciliaris</i>	+	<1 %	30 cm		
<i>Cleome viscosa</i>	+	<1 %	25 cm		
<i>Cymbopogon ambiguus</i>	+	<1 %	40 cm	B15-4	
<i>Cyperus bifax</i>	+	<1 %	60 cm	B15-15,6,	B15-14,sterile
<i>Cyperus squarrosus</i>	+	<1 %	5 cm	B15-3	
<i>Cyperus vaginatus</i>	+	<1 %	25 cm	B15-5	{Recorded twice}
<i>Dicliptera armata</i>	+	<1 %	30 cm		
<i>Eriachne tenuiculmis</i>	10	5-10%	40 cm	B15-2	
<i>Eucalyptus victrix</i>	5-10%	5-10%	3 m		
<i>Indigofera colutea</i>	+	<1 %	20 cm		
<i>Indigofera linifolia</i>	+	<1 %	25 cm	B15-9	
<i>Ipomoea coptica</i>	+	<1 %		B15-7	dead, sprawling
<i>Operculina aequisejala</i>	+	<1 %	1.2 m	B15-16	twining??
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm		
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	30 cm		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	40 cm	B15-8	1, scrambling
<i>Sesbania cannabina</i>	50%	50-75%	1.5-2 m	B15-1	
<i>Stemodia grossa</i>	+	<1 %	20-30 cm	B15-12	1,2, {Recorded twice}
<i>Terminalia canescens</i>	15-20%	10-25%	20 cm,	B15-13	sterile convolvulaceae?
<i>Triodia epactia</i> (Burrup Form)	25	10-25%	40 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	25 cm		

Burrup Peninsula Site B016

Described by ASW **Date** 21/05/00

Location E of B12, on plateau on top of rockpile slope.

Air Photo **Photo** 23A **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 474913mE, 7716704mN 474855mE, 7716719mN

Habitat Gentle slope on top of rockpile.

Soil Very sparse between boulders.

Rock Type Boulders to 50 cm diameter.

Vegetation *Grevillea pyramidalis* subsp. *pyramidalis*, *Ipomoea costata* scattered shrubs to open shrubland over *Triodia epactia* (Burrup form) hummock grassland with *Tephrosia* aff *supina* (MET 12,357) open herbland and *Rhynchosia* sp. Burrup (82-1C) open lianes.

Veg Condition Very Good (Good-poor for weeds)

Fire Age >10 years

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	40 cm	B16-30	
	<i>Acacia pyrifolia</i> (green)	2	1-5%	50 cm	B16-24	green 2 spp.
	<i>Boerhavia coccinea</i> (form B)	+	<1 %	20 cm	B16-29	
	<i>Bulbostylis barbata</i>	1?	1-5%	10 cm	B16-15	
	<i>Cenchrus ciliaris</i>	2	1-5%	40 cm	B16-26	
	<i>Cleome viscosa</i>	+	<1 %	50 cm	B16-31	
	<i>Commelina ensifolia</i>	+	<1 %	30 cm	B16-35	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	2	1-5%	30 cm	B16-21	
	<i>Cymbopogon ambiguus</i>	5	1-5%	60	B16-36,13	{Recorded twice}
	<i>Desmodium filiforme</i>	1	1-5%	20 cm	B16-18	
	<i>Dichrostachys spicata</i>	+	<1 %	1 m	B16-40	(1-2 plants)
	<i>Dicliptera armata</i>	2	1-5%	50 cm	B16-37	
	<i>Digitaria ctenantha</i>	+	<1 %	30 cm	B16-28	
	<i>Euphorbia coghlanii</i>	1	1-5%	30 cm	B16-14	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	2	1-5%	10 cm	B16-12	=B12
	<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	1?	1-5%	5 cm	B16-6	

<i>Gomphrena cunninghamii</i>	2	1-5%	10 cm	B16-11	
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	< 2	1-5%	1.5 m	B16-1	
<i>Hybanthus aurantiacus</i>	1	1-5%	30 cm	B16-8	
<i>Indigofera linifolia</i>	1	1-5%	20 cm	B16-38	
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	60 cm	B16-41	
<i>Ipomoea costata</i>	2	1-5%	1.1 m	B16-2	
<i>Mukia maderaspatana</i>	2	1-5%	50 cm	B16-33	
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	2	1-5%	50 cm	B16-19	
<i>Polycarpaea longiflora</i> (red form)	1	1-5%	50 cm	B16-16	
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	1	1-5%	60 cm	B16-34	
<i>Ptilotus fusiformis</i> var. <i>fusiformis</i>	+	<1 %	50 cm	B16-32	
<i>Rhynchosia</i> cf. <i>minima</i>	?	<1 %	10 cm	B16-27?	
<i>Rhynchosia</i> sp. Burrup (82-1C)	20	10-25%	40 cm	B16-4	
<i>Schizachyrium fragile</i>	1	1-5%	30 cm	B16-10	
<i>Streptoglossa decurvens</i>	1	1-5%	90 cm	B16-17	
<i>Stylosanthes hamata</i>	+	<1 %	30 cm	B16-39	1 plant
<i>Tephrosia</i> aff. <i>densa</i> (B16-22)	1	1-5%	30 cm	B16-22	
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	10	5-10%	30 cm	B16-5	mauve
<i>Themeda</i> sp. Burrup (B84)	5	5-10%	50 cm	B16-20	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	1	1-5%	20 cm	B16-23	
<i>Triodia epactia</i> (Burrup Form)	50	33.3-50%	40 cm	B16-3	
<i>Triumfetta appendiculata</i> (Burrup Form)	2?	1-5%	50 cm	B16-7	'felty' =B9, B12
<i>Triumfetta clementii</i>	5	5-10%	30 cm	B16-25	small, =B9
<i>Vigna</i> sp. Burrup (B18)	4	1-5%	20 cm	B16-9	

Burrup Peninsula Site B017

Described by MET **Date** 21/05/00

Location Pistol Ranges ca. 300m E of Burrup Road

Air Photo **Photo** 17 **on Roll** M1 **Video** N **E Photo**

Photo Notes No. 16 of Roll M1 is of a *Dichrostachys spicata* stand (dense) ups

AMG Zone 50 474972mE, 7716676mN 474890mE, 7716620mN

Habitat Narrow flowline in the base of a broad gully that has rockpile walls.

Soil Brown claypan.

Rock Type

Vegetation *Eucalyptus victrix* low open woodland over *Dichrostachys spicata*, *Acacia coriacea* subsp. *coriacea* scattered shrubs over *Triodia angusta* (Burrup form), *Themeda* sp. Burrup (B84), *Cyperus vaginatus* hummock/tussock grassland/sedgeland with *Rhynchosia* sp. Burrup (82-1C) very open lianes.

Veg Condition Good - very good. *Cenchrus* reduces condition.

Fire Age >10 yrs

Notes East peg is next to a large boulder. The bottom (<1 m wide mostly) of the flowline was still very moist. Had had water long enough for *Chara* to grow (small amount) and little brown frogs! A narrow strip recorded (2-5 m), that is damp and has species (eg *Cyperus vaginatus*) indicating moister conditions (seasonally). The adjoining slopes have mostly *Triodia epactia* (Burrup form) but there are some wide patches of *Triodia angusta* (Burrup form) dense hummock grassland with a few shrubs, The **Cenchrus ciliaris* was heavily grazed, *Themeda* sp. Burrup (B84) less so. Drier part (eastern 20 m) has no *C. vaginatus*, more (>15%) *Themeda* sp. Burrup (B84) here. Also, *Triumfetta appendiculata* (Burrup form) and *Tephrosia* aff. *supina* (MET 12357). *Tephrosia* aff. *densa* (B17) was next to this site.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Abutilon fraseri</i>	+	<1 %	20-60 cm	
	<i>Acacia colei</i>	+	<1 %	90 cm	B17-11
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1-2 m	

<i>Acacia pyrifolia</i> (green)	+	<1 %	2.5 m	B17-5	Younger plants, slender,
<i>Achyranthes aspera</i>	+	<1 %	85 cm		
<i>Aerva javanica</i>	+	<1 %	1 m		dead
<i>Alectryon oleifolius</i>	+	<1 %	1 m		
<i>Ammannia auriculata</i>	+	<1 %	20 cm	B17-9	
<i>Ammannia baccifera</i>	+	<1 %	5-20cm	B17-8	
<i>Cenchrus ciliaris</i>	>=20	10-25%	40-60 cm		check cover
<i>Chrysopogon fallax</i>	+	<1 %	70 cm		
<i>Cleome viscosa</i>	+	<1 %	45 cm		
<i>Cymbopogon ambiguus</i>	+	<1 %	60 cm		=B3
<i>Cyperus vaginatus</i>	<=2	1-5%	40-75 cm		
<i>Dichrostachys spicata</i>	1	1-5%	1-2 m		
<i>Dicliptera armata</i>	+	<1 %	30-70 cm		
<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2 m		
<i>Erythrina vespertilio</i>	+	<1 %	3.5 m		
<i>Eucalyptus victrix</i>	<5	1-5%	6-8 m		
<i>Indigofera trita</i>	+	<1 %	30 cm	B17-6	
<i>Malvastrum americanum</i>	+	<1 %	25 cm		
<i>Mukia maderaspatana</i>	+	<1 %	30-50 cm	B17-7	
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30-80 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	10 cm		
<i>Pterocaulon sphacelatum</i>	+	<1 %		B17-12	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	70 cm		
<i>Rhagodia eremaea</i>	+	<1 %	0.7-1.4 m		
<i>Rhynchosia</i> cf. <i>minima</i>	<1	<1 %	40 cm	B17-4	green, not sticky
<i>Rhynchosia</i> sp. Burrup (82-1C)	>5	5-10%	40-190	B17-3	green, sticky
<i>Sesbania cannabina</i>	+	<1 %	2-3 m		common
<i>Stemodia grossa</i>	+/-10	5-10%	40-80(150)	B17-1	check cover
<i>Themeda</i> sp. Burrup (B84)	<20	10-25%	40-150	B17-2	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	0.4-1.4 m		
<i>Triodia angusta</i> (Burrup Form)	>=20	10-25%	40-90 cm		check cover
<i>Triumfetta clementii</i>	+	<1 %	15 cm	B17-10	

Burrup Peninsula Site B018

Described by MET **Date** 21/05/00

Location Adjacent to B17.

Air Photo **Photo** 15 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 474944mE, 7716671mN 474906mE, 7716644mN

Habitat Steep S facing boulder scree (rockpile) with some outcrop.

Soil Bright light brown (orange brown) loam.

Rock Type Volcanic, grey, medium grained.

Vegetation *Brachychiton acuminatus* scattered low trees over *Flueggia virosa* subsp. *melanthesoides* scattered tall shrubs to tall open shrubland over *Dichrostachys spicata* scattered shrubs to open shrubland over *Cymbopogon ambiguus*, *Themeda* sp. Burrup (B84), *Eriachne mucronata* (typical form), **Cenchrus ciliaris* scattered tussock grasses to open tussock grassland.

Veg Condition Very good to excellent.

Fire Age >10 yrs.

Notes East end at a *Dichrostachys spicata*, which is +/- opposite a small two-stemmed *Eucalyptus victrix*.

Rock Pile Notes Rocks vary from cobbles to boulders, but mostly boulders. Some outcrop.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	50 cm		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.3		
	<i>Brachychiton acuminatus</i>	+	<1 %	4 m		

<i>Cenchrus ciliaris</i>	+	<1 %	60 cm		
<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)	+	<1 %	15 cm	B18-2	
<i>Chrysopogon fallax</i>	+	<1 %	40 cm		
<i>Cleome viscosa</i>	+	<1 %	50 cm		
<i>Commelina ensifolia</i>	+	<1 %	10-40 cm		
<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	30 cm		
<i>Cymbopogon ambiguus</i>	<1	<1 %	30-60 cm	B18-1	
<i>Dichrostachys spicata</i>	<1	<1 %	1-3 m		
<i>Dicliptera armata</i>	+	<1 %	30-50 cm		
<i>Digitaria ctenantha</i>	+	<1 %	50 cm		in a crevice
<i>Enchylaena tomentosa</i>	+	<1 %	80 cm		
<i>Eriachne mucronata</i> (typical form)	+	<1 %	40-55 cm	B18-3	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2.4 m		
<i>Gomphrena cunninghamii</i>	+	<1 %	10-15 cm		
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	80 cm		
<i>Indigofera trita</i>	+	<1 %	25 cm	B18-9	
<i>Ipomoea costata</i>	+	<1 %	70 cm		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	40 cm		
<i>Mukia maderaspatana</i>	+	<1 %	1 m		=B17
<i>Nicotiana benthamiana</i>	+	<1 %	15 cm	B18-10	
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	40 cm		
<i>Passiflora foetida</i>	+	<1 %	6+ m		One plant on large
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	60 cm		
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	40 cm		
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	60 cm		
<i>Rhagodia eremaea</i>	+	<1 %	1.3 m		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	45-160		=B17, not sticky
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	40 cm	=B17	green and sticky
<i>Solanum cleistogamum</i>	+	<1 %	20 cm	B18-11	
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	60 cm		mauve
<i>Terminalia supranitifolia</i>	+	<1 %	1.6-2 m		
<i>Themeda</i> sp. Burrup (B84)	+	<1 %	30 cm	B18-8	
<i>Tinospora smilacina</i>	+	<1 %	1.2 m		
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	25 cm	B18-4	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	60-110		
<i>Triodia angusta</i> (Burrup Form)	+	<1 %	50 cm		
<i>Triodia epactia</i> (Burrup Form)	>=1	1-5%	20-45 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm	B18-7	
<i>Triumfetta clementii</i>	+	<1 %	30 cm	B18-5	
<i>Vigna</i> sp. Burrup (B18)	+	<1 %	0.75-2 m	B18-6	

Burrup Peninsula Site B019

Described by VLL **Date** 21/05/00 **70x70x60m**

Location E of Burrup Road approx N from B-20 Peg 1, on lower slopes of B20-21 gully.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 475187mE, 7717136mN 475175mE, 7717204mN

Habitat Low 'basin' area surrounded by medium-sized hillslopes and ridges to the S, E and N sides. Drainage line with *Terminalia canescens*/*Dichrostachys spicata* flows along the S border.

Soil

Rock Type

Vegetation *Corymbia hamersleyana* low open woodland to low woodland over *Ehretia saligna* var. *saligna*, *Dichrostachys spicata* scattered tall shrubs over *Triumfetta appendiculata* (Burrup form) scattered low shrubs over *Triodia angusta* (Burrup form) hummock grassland.

Veg Condition Excellent.

Fire Age

Notes Sample area is triangle shaped, dictated by hillslopes and drainage lines as boundaries (ie not part of this habitat).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. lepidum (4)	+	<1 %		B19-7	
	Abutilon fraseri	+	<1 %	28 cm	B19-17,25,	B19-24,small drain two
	Abutilon lepidum	+	<1 %	40 cm	B19-10	
	Acacia bivenosa	+	<1 %	2 m		
	Acacia coriacea subsp. coriacea	+	<1 %	1.5 m		small drain two
	Acacia pyrifolia (green)	+	<1 %	40 cm		
	Aerva javanica	+	<1 %	50 cm		
	Alectryon oleifolius	+	<1 %	1 m		
	Ammannia baccifera	+	<1 %	1 m		low small patch
	Boerhavia coccinea (form A)	+	<1 %	30 cm	B19-3	trailing
	Boerhavia gardneri	+	<1 %	30 cm	B19-13	2
	Bonamia media var. villosa	+	<1 %	5 cm	B19-4	
	Bulbostylis barbata	+	<1 %	5 cm	B19-18	?
	Cenchrus ciliaris	+	<1 %	20 cm		grazed
	Chrysopogon fallax	+	<1 %	80 cm		
	Corchorus walcottii	+	<1 %	40 cm	B19-9	1,
	Corymbia hamersleyana	10-15%	10-25%	2-2.5 m	B19-2+31	
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	30 cm	B19-27	
	Cymbopogon ambiguus	+	<1 %	80 cm	B19-15	
	Cyperus squarrosus	+	<1 %		B19-32b	
	Dichrostachys spicata	+	<1 %	1-1.5 m		
	Dicliptera armata	+	<1 %	30 cm		drain, small area
	Digitaria ctenantha	+	<1 %	20 cm		
	Ehretia saligna var. saligna	+	<1 %	2 m		
	Enchylaena tomentosa	+	<1 %	40 cm		small drain two
	Eriachne obtusa	+	<1 %	45 cm	B19-12	
	Euphorbia biconvexa	+	<1 %	20 cm	B19-22	?
	Euphorbia coghlanii	+	<1 %	25 cm		?
	Evolvulus alsinoides var. villosicalyx	+	<1 %	25 cm		elvalo??? No name
	Fimbristylis microcarya	+	<1 %	5-25 cm	B19-32A&	B19-19
	Hibiscus sturtii var. campylochlamys	+	<1 %	25 cm	B19-30,5	small drain two
	Hybanthus aurantiacus	+	<1 %	25 cm		
	Indigofera colutea	+	<1 %	20 cm		
	Indigofera linifolia	+	<1 %	25 cm	B19-29	{Recorded twice}
	Indigofera monophylla (Burrup form)	+	<1 %	30 cm		
	Indigofera trita	+	<1 %	30 cm	B19-28	legume
	Mukia maderaspatana	+	<1 %	1 m	B19-16,8	1,2, trailing {Recorded
	Neptunia dimorphantha	+	<1 %	50 cm	B19-26	spreading
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	28 cm		
	Polycarpaea longiflora (red form)	+	<1 %	25 cm		
	Polymeria calycina	+	<1 %	50 cm	B19-1	prostrate creeper
	Portulaca oleracea	+	<1 %	15 cm	B19-23	
	Pterocaulon sphacelatum	+	<1 %	30 cm		
	Rhagodia preissii subsp. obovata	+	<1 %	80 cm		
	Rhynchosia cf. minima	+	<1 %	40 cm	B19-11	
	Scaevola spinescens (narrow form)	+	<1 %	90 cm	B19-14	
	Solanum horridum	+	<1 %	30 cm		
	Solanum phlomoides	+	<1 %	40 cm		
	Stemodia grossa	+	<1 %	35 cm	B19-20	spike, low small patch
	Streptoglossa decurrens	+	<1 %	25 cm		
	Swainsona formosa	+	<1 %	70 cm		
	Tephrosia aff. supina (MET 12,357)	+	<1 %	20 cm		mauve
	Themeda sp. Burrup (B84)	+	<1 %	35 cm		
	Tinospora smilacina	+	<1 %			Tinspi??? small drain
	Triodia angusta (Burrup Form)	50	33.3-50%	0.8-1.1 m	B19-21	

Triodia epactia (Burrup Form)	+	<1 %	30 cm	
Triumfetta appendiculata (Burrup Form)	+	<1 %	50 cm	
Triumfetta clementii	+	<1 %	20 cm	B19-6

Burrup Peninsula Site B020

Described by VLL **Date** 21/05/00 20x100m

Location 400 m E of Burrup Road (opposite massacre site)

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 475184mE, 7717030mN 475182mE, 7716935mN

Habitat Moderately deep rock gully and distinct rock gully corridor beneath two high rockpile ridges running (??), rocky Triodia banks - mid-level rock slopes.

Soil Skeletal to moderate brown-grey alluvial soil with rocks and boulders 20-40 cm dia.

Rock Type Fine grained red-grey rhyodocite

Vegetation Terminalia canescens low open forest over Triodia epactia (Burrup form), Triodia angusta (Burrup form), (Eriachne tenuiculmis) open hummock/tussock grassland with Sesbania cannabina annual tall herbland.

Veg Condition Excellent.

Fire Age N/A

Notes Transect is 20 m wide, 100 m long. It accomodates ca. 5 m of Triodia bank on each side (varies, sometimes rockpile meets drain gully) amd ca. 10 m rocky drain. These differences are noted below.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. lepidum (4)	+	<1 %	20 cm	B20-20	Banks only
	Ammannia baccifera	+	<1 %	20 cm	B20-2,27	Drain only, water plant,
	Cenchrus ciliaris	+	<1 %	30 cm		
	Cleome viscosa	+	<1 %	30 cm		Drain and bank
	Corchorus walcottii	+	<1 %	25 cm	B20-21	No 2, banks only
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	40 cm	B20-7	Bank only, crotri/med
	Cymbopogon ambiguus	+	<1 %	40 cm	B20-3	
	Cynanchum floribundum	+	<1 %	2 M	B20-18	B only, scrambling.
	Cyperus squarrosus	+	<1 %	5 cm	B20-10	Drain only
	Cyperus vaginatus	+	<1 %	20cm-1.2	B20-8,29,4	B20-22,14 Drain only,
	Dichrostachys spicata	+	<1 %	35 cm		Drain and bank
	Dicliptera armata	+	<1 %	20-30 cm		Drain and bank
	Digitaria brownii	+	<1 %	80 cm	B20-19	Grass entwined in dense
	Eriachne tenuiculmis	+	<1 %	30-35 cm	B20-9	Drain only. Eri
	Fimbristylis aff. dichotoma (M75-4)	+	<1 %	20 cm	B20-13	Drain only
	Fimbristylis microcarya	+	<1 %	5 cm	B20-12,17	{recorded twice} Drain
	Gomphrena cunninghamii	+	<1 %	20 cm		Bank only, {recorded
	Indigofera linifolia	+	<1 %	25 cm		Bank only
	Indigofera trita	+	<1 %	25 cm	B20-30,23	Bank only, {recorded
	Operculina aequisepala	+	<1 %	80 cm		B only, scrambling,
	Pluchea rubelliflora	+	<1 %	40 cm	B20-16	D only
	Polycarpaea longiflora (red form)	+	<1 %	40 cm		Bank only
	Portulaca oleracea	+	<1 %	1-5 cm	B20-11	Drain only, succulent
	Portulaca pilosa	+	<1 %	20 cm	B20-15	Side of drain
	Rhynchosia cf. minima	+	<1 %	45 cm	B20-5	B only, scrambling, 1
	Rhynchosia sp. Burrup (82-1C)	+	<1 %		B20-25	3, bank only,
	Sesbania cannabina	30-40%	33.3-50%	1-2m		
	Stemodia grossa	+	<1 %	40 cm	B20-1,28	?{recorded twice},
	Tephrosia aff. supina (MET 12,357)	+	<1 %	20 cm	B20-6	mauve, bank only
	Terminalia canescens	30-40%	33.3-50%	2.4 m		
	Triodia angusta (Burrup Form)	5-10	5-10%	40 cm		Drain only.

Triodia epactia (Burrup Form)	5-10	5-10%	40 cm		B =Bank, D = Drain
Triumfetta appendiculata (Burrup Form)	+	<1 %	35 cm		Bank only
Typha domingensis	+	<1 %	1.5 m	B20-26	?? Drain only, big Rush

Burrup Peninsula Site B021

Described by VLL **Date** 21/05/00 2x80 m

Location

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 475182mE, 7716930mN 475186mE, 7716880mN

Habitat Very narrow rocky gully in upper rockpiles, high up in Pistol Ranges. Gully is very narrow - 3 m with rocky walls (no banks) - continues on from B020 where the habitat changes to this narrow gully.

Soil Skeletal brown grey, large rocks to 80-90 cm and outcropping rock.

Rock Type

Vegetation Terminalia canescens, Brachychiton acuminatus, Flueggea virosa subsp. melanthesoides low woodland over Dichrostachys spicata open shrubland over *Cenchrus ciliaris, Cymbopogon ambiguus, Eriachne tenuiculmis, Triodia epactia (Burrup form), Themeda sp. Burrup (B84) open tussock/hummock grassland with Dicliptera armata, Stemodia grossa annual herbland.

Veg Condition Excellent.

Fire Age N/A

Notes Less evidence of water lying here.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	25 cm	B21-4,9	sterile, {recorded twice}
	Acacia coriacea subsp. coriacea	+	<1 %	1 m		
	Achyranthes aspera	+	<1 %	50 cm		
	Alectryon oleifolius	+	<1 %	1.5 m		
	Brachychiton acuminatus	2	1-5%	3 m		
	Cenchrus ciliaris	5-10	5-10%	40 cm		
	Chrysopogon fallax	+	<1 %	45 cm		may be chrfa?
	Commelina ensifolia	+	<1 %	30 cm	B21-10	
	Cymbopogon ambiguus	5	5-10%	0.3 -1 m	B21-1	
	Dichrostachys spicata	10	5-10%	1.5 m		
	Dicliptera armata	40-50	33.3-50%	30 cm		
	Ehretia saligna var. saligna	+	<1 %	1.5 m		
	Eriachne tenuiculmis	5-10%	5-10%	40 cm		
	Flueggea virosa subsp. melanthesoides	2	1-5%	2 m		
	Ipomoea costata	+	<1 %	90 cm		
	Jasminum didymum subsp. lineare	+	<1 %			sprawling
	Mukia maderaspatana	+	<1 %			climbing
	Paspalidium tabulatum (Burrup Form)	+	<1 %	40 cm		
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	35 cm	B21-3	candlestick
	Plumbago zeylanica	+	<1 %	70 cm		
	Porana commixta	+	<1 %		B21-8	Convolvulus/vine
	Rhynchosia sp. Burrup (82-1C)	+	<1 %	40 cm		viscid
	Stemodia grossa	+	<1 %	30 cm	B21-2	
	Terminalia canescens	10	5-10%	2.5 m		
	Themeda sp. Burrup (B84)	5	5-10%	35 cm	B21-7	
	Tinospora smilacina	+	<1 %			climbing
	Trachymene aff. oleracea (B61)	+	<1 %	30 cm	B21-5	
	Triodia epactia (Burrup Form)	5-10%	5-10%			
	Triumfetta appendiculata (Burrup Form)	+	<1 %	40 cm		

Burrup Peninsula Site B022**Described by** ASW **Date** 21/05/00**Location** A few hundred metres E of Burrup 'Road', S of King Bay.**Air Photo** **Photo** 26?,0,0A,2 **on Roll** AW **Video** N **E Photo****Photo Notes****AMG Zone** 50 477083mE, 7721107mN 477107mE, 7721164mN**Habitat** Bouldery with outcrop on western boundary.**Soil** Red-brown, sparse between boulders and cobbles.**Rock Type****Vegetation** *Corymbia hamersleyana* scattered low trees over *Acacia colei*, *Acacia bivenosa* open shrubland over *Indigofera monophylla* (Burrup form) low scattered shrubs over *Triodia epactia* (Burrup form), *Themeda* sp. Burrup (B84) hummock/tussock grassland.**Veg Condition** VG**Fire Age** <1995 probably.**Notes** Raining.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	1	1-5%	1.5 m+	B22-23	
	<i>Acacia colei</i>	3	1-5%	2 m	B22-2	twisty pods, leaves large
	<i>Acacia colei</i> x <i>elachantha</i>	1	1-5%	2 m	B22-38	twisty pods, leaves
	<i>Boerhavia gardneri</i>	1	1-5%	20 cm	B22-15	rough leaf?
	<i>Bonamia media</i> var. <i>villosa</i>	+/-1	<1 %	5 cm	B22-22,32	see 32,
	<i>Cajanus cinereus</i>	1	1-5%	50 cm	B22-3	Pea -trifoliolate, flowers
	<i>Corchorus walcottii</i>	+	<1 %	30 cm	B22-9	
	<i>Corymbia hamersleyana</i>	+	<1 %	2.2 m	B22-25	
	<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	50 cm	B22-20	
	<i>Cymbopogon ambiguus</i>	1	1-5%	1.5 m	B22-26	
	<i>Dicliptera armata</i>	+	<1 %	10 cm	B22-36	
	<i>Euphorbia coghlanii</i>	1	1-5%	40 cm	B22-8	maybe 2 species
	<i>Gomphrena cunninghamii</i>	2	1-5%	10 cm	B22-11	
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	1	1-5%	50 cm	B22-7	
	<i>Hakea lorea</i> ssp. <i>lorea</i>	1	1-5%	1.2 m	B22-27	
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	50 cm	B22-18	yellowish
	<i>Hybanthus aurantiacus</i>	1	1-5%	20 cm	B22-17	
	<i>Indigofera monophylla</i> (Burrup form)	1	1-5%	50 cm	B22-24	=4,{recorded twice}
	<i>Mollugo molluginis</i>	+	<1 %	20 cm	B22-19	
	<i>Mukia maderaspatana</i>	1	1-5%	60 cm	B22-14	
	<i>Paspalidium clementii</i>	+	<1 %	5 cm	B22-39	small grass
	<i>Paspalidium tabulatum</i> (Burrup Form)	1	1-5%	60 cm	B22-16	
	<i>Polycarpaea longiflora</i> (red form)	1	1-5%	30 cm	B22-13	
	<i>Ptilotus fusiformis</i> var. <i>fusiformis</i>	+	<1 %	50 cm	B22-21	
	<i>Rhynchosia</i> cf. <i>minima</i>	1	1-5%	50 cm	B22-5	
	<i>Sida</i> aff. <i>cardiophylla</i> (B22-37)	+	<1 %	40 cm	B22-37	yellowish leaves
	<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %	50 cm	B22-35	silvery
	<i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)	+	<1 %	90 cm	B22-6	Pea, flowers orange,
	<i>Themeda</i> sp. Burrup (B84)	20	10-25%	30 cm	B22-30	
	<i>Tinospora smilacina</i>	1	1-5%	2 m	B22-28	
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+/-1	<1 %	10 cm	B22-33	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	1	1-5%	30 cm	B22-29	
	<i>Triodia epactia</i> (Burrup Form)	50	33.3-50%	50 cm	B22-1	
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	40 cm	B22-12	felty
	<i>Triumfetta clementii</i>	1	1-5%	30 cm	B22-10,34	small,{recorded twice}
	<i>Zornia muelleriana</i> subsp. <i>congesta</i>	1	1-5%	40 cm	B22-31	

Burrup Peninsula Site B023

Described by ASW **Date** 22/05/00

Location Approx 100m W of B22

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 477004mE, 7721226mN 477038mE, 7721226mN

Habitat Small rockpile with vegetation only around the bottom edge.

Soil

Rock Type

Vegetation Ehretia saligna var. saligna, Brachychiton acuminata, Terminalia supranitifolia, Ipomoea costata scattered tall shrubs over Dichrostachys spicata, Enchylaena tomentosa, Rhagodia eremaea scattered shrubs to open shrubland.

Veg Condition VG

Fire Age

Notes Vegetation <10% of rockpile area.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon sp.	+/-1	<1 %	60 cm	B23-7	
	Acacia bivenosa	+	<1 %	2.2 m	B23-14	
	Acacia colei	+	<1 %	1.3 m	B23-17	large leaf
	Alectryon oleifolius	+	<1 %	1 m	B23-8	
	Brachychiton acuminatus	<5	1-5%	3.5 m	B23-2	
	Corchorus walcottii	+	<1 %	40 cm	B23-23	
	Cymbopogon ambiguus	+	<1 %	50 cm	B23-13	
	Dichrostachys spicata	5	5-10%	2 m	B23-3	
	Dicliptera armata	+	<1 %	40 cm	B23-11	
	Ehretia ?(B23-22)	+	<1 %	15 cm	B23-22	seedling
	Ehretia saligna var. saligna	<5	1-5%	3 m	B23-1	
	Enchylaena tomentosa	5	5-10%	1.5 m	B23-4	
	Flueggea virosa subsp. melanthesoides	+	<1 %	1.2 m	B23-16	
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	1 m	B23-12	
	Ipomoea costata	<1-2	1-5%	2.5 m	B23-9	
	Mukia maderaspatana	+	<1 %	10 cm	B23-18	
	Paspalidium tabulatum (Burrup Form)	+/-1	<1 %	60 cm	B23-6	
	Rhagodia eremaea	+	<1 %	1.5 m	B23-5	
	Rhynchosia cf. minima	+	<1 %	20 cm	B23-19	
	Scaevola spinescens (narrow form)	+	<1 %	40 cm	B23-20	
	Terminalia supranitifolia	<5	1-5%	2.5 m	B23-10	
	Tinospora smilacina	+	<1 %	10 cm	B23-21	
	Trachymene aff. oleracea (B61)	+	<1 %	40 cm	B23-24	
	Triumfetta appendiculata (Burrup Form)	+	<1 %	50 cm	B23-15	felty

Burrup Peninsula Site B024

Described by MET **Date** 21/05/00 39.4 x 60.6 m

Location East of Burrup road at bend before NW Shelf gas plant.

Air Photo **Photo** 13 **on Roll** **MB** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 477285mE, 7721086mN 477223mE, 7721068mN 477281mE, 7721050mN 477240mE, 7721099mN

Habitat S facing slope and crest of a low spur that trends E-W.

Soil Brown (slightly orange) loam amongst pebbles and cobbles.

Rock Type Cobbles to small boulders, surface to 50%.

Vegetation Acacia inaequilatera, Acacia bivenosa scattered tall shrubs over Indigofera monophylla (Burrup form) low shrubland over Triodia epactia (Burrup form) hummock grassland with Rhynchosia cf. minima open lianes.

Veg Condition Very Good to Excellent.

Fire Age 5 to >10 years.

Notes Some low outcrop.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	60 cm		
	<i>Acacia bivenosa</i>	+	<1 %	0.6-2.1 m		
	<i>Acacia colei</i>	+	<1 %	1.8 m		ˆbroad phyllodes
	<i>Acacia inaequilatera</i>	+	<1 %	0.5-2 m		corky
	<i>Boerhavia coccinea</i> (form A)	+	<1 %	25 cm		dead
	<i>Boerhavia gardneri</i>	+	<1 %	10 cm	B24-1	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %			
	<i>Brachychiton acuminatus</i>	+	<1 %	10 cm		juvenile
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	55 cm		on rocks
	<i>Cassia glutinosa</i>	+	<1 %	1.4 m		
	<i>Cleome viscosa</i>	+	<1 %	25 cm		
	<i>Corchorus walcottii</i>	+	<1 %	35 cm		
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	20 cm		
	<i>Dichrostachys spicata</i>	+	<1 %	70 cm		
	<i>Euphorbia coghlanii</i>	+	<1 %	10 cm		{recorded twice}
	<i>Euphorbia</i> sp. (site 1163)	+	<1 %			
	<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	+	<1 %	15 cm		
	<i>Gomphrena cunninghamii</i>	+	<1 %	5 cm		
	<i>Goodenia microptera</i>	+	<1 %	30 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	20-80 cm		
	<i>Hybanthus aurantiacus</i>	+	<1 %	15 cm		
	<i>Indigofera colutea</i>	+	<1 %	7 cm		
	<i>Indigofera linifolia</i>	+	<1 %	15 cm		
	<i>Indigofera monophylla</i> (Burrup form)	10-15	10-25%	30-60 cm		
	<i>Indigofera</i> sp.	+	<1 %	6 cm		grazed
	<i>Ipomoea costata</i>	+	<1 %	1.8 m		
	<i>Mollugo molluginis</i>	+	<1 %	15 cm		
	<i>Paspalidium clementii</i>	+	<1 %	7 cm		
	<i>Polycarpaea longiflora</i> (red form)	+	<1 %	25 cm		
	<i>Polygala</i> sp. (M23-2)	+	<1 %	5 cm		
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	5 cm		
	<i>Rhynchosia</i> cf. <i>minima</i>	+/-15	10-25%	30-60 cm		=B18, dying off, grey
	<i>Sida</i> aff. <i>cardiophylla</i> (B22-37)	+	<1 %	60 cm		
	<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	20-35 cm		mauve
	<i>Terminalia supranitifolia</i>	+	<1 %	1.2 m		
	<i>Tinospora smilacina</i>	+	<1 %	20 cm		on rocks
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	20 cm	B24-2	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	15-50 cm		
	<i>Triodia epactia</i> (Burrup Form)	>=60	50-75%	30-60 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm		common, hairy
	<i>Triumfetta clementii</i>	+	<1 %	2 cm		green
	<i>Vigna</i> sp. Burrup (B18)	+	<1 %	30 cm		=B18

Burrup Peninsula Site B025

Described by VLL **Date** 22/05/00 **45 x 55 m**

Location High plateau above rockpiles immediately E of CALM Gate (past Withnell Bay).

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 478790mE, 7724243mN

Habitat Stony hummock-grassed terrace, W facing, approximately 55-60 m wide by 150 m long between rock ridges to E and W. Area surveyed does not include rockpiles at sides at all.

Soil Skeletal red-brown silty, low rockwall to E and deeper colluvial sandy soil and shale to rock drop at W side.

Rock Type Rocks and boulders, fine grained rhyodacite.

Vegetation *Acacia bivenosa*, *Grevillea pyramidalis* subsp. *pyramidalis* high open shrubland over *Indigofera monophylla* (Burrup form) low open shrubland over *Triodia epactia* (Burrup form) hummock grassland.

Veg Condition Excellent

Fire Age

Notes There are small outcropping rockpiles (1-1.5 m diameter) in general vicinity and survey. There are possibly two different assemblages on this plateau within the survey area; 1) *Triodia epactia* (Burrup form) grassland on red skeletal soil with rocks and boulders and 2)? a strip of *Triodia angusta* (Burrup form) on deeper, more weathered soil and shale-like rock. *T. angusta* (Burrup form) is very dense and allows for few other species. *T. angusta* (Burrup form) strip is ca. 5 m wide and is not continuous, but is quite obvious.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	+	<1 %			
	<i>Acacia coleii</i>	+	<1 %	1.25 m	B25-16	
	<i>Acacia orthocarpa</i>	+	<1 %	1 m	B25-30,17	B25-18,rare,{recorded
	<i>Boerhavia gardneri</i>	+	<1 %	30 cm	B25-23	trailing
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %		B25-28	prostrate
	<i>Bulbostylis barbata</i>	+	<1 %	25 cm	B25-11	
	<i>Cajanus cinereus</i>	+	<1 %		B25-21	
	<i>Cassyltha capillaris</i>	+	<1 %		B25-25	scrambling
	<i>Cleome viscosa</i>	+	<1 %	40 cm		
	<i>Corchorus walcottii</i>	+	<1 %	30 cm	B25-24	
	<i>Cymbopogon ambiguus</i>	+	<1 %	1.25 m	B25-26	
	<i>Cynanchum floribundum</i>	+	<1 %		B25-12	trailing
	<i>Euphorbia coghlani</i>	+	<1 %	20 cm	B25-3	
	<i>Euphorbia</i> sp. (site 1163)	+	<1 %	25 cm	B25-19,4	under ipocos,{recorded
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	5-15 cm	B25-1	elvals no
	<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
	<i>Goodenia microptera</i>	+	<1 %	15 cm	B25-10	
	<i>Goodenia</i> sp.	+	<1 %		B25	2
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %			
	<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	1.25		under ipocos
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	30 cm	B25-13,7	2,{recorded twice}
	<i>Indigofera monophylla</i> (Burrup form)	2-10%	5-10%	60cm	B25-29	
	<i>Ipomoea costata</i>	+	<1 %	1.25 m		
	<i>Mollugo molluginis</i>	+	<1 %	25 cm	B25-5	{recorded twice}
	<i>Mukia maderaspatana</i>	+	<1 %	1 m	B23-25	under ipocos,
	<i>Paspalidium clementii</i>	+	<1 %	5 cm		
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	6 cm	B25-6	under ipocos
	<i>Polygala</i> sp. (M23-2)	+	<1 %	1.5 cm	B25-8	small herb
	<i>Portulaca oleracea</i>	+	<1 %	1 cm	B25-27	
	<i>Pterocaulon sphaeranthoides</i>	+	<1 %	25 cm		
	<i>Ptilotus fusiformis</i> var. <i>fusiformis</i>	+	<1 %	30 cm	B25-20	
	<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	60 cm		
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %		B25-9	
	<i>Solanum horridum</i>	+	<1 %	15 cm		
	<i>Solanum phlomoides</i>	+	<1 %	40 cm	B25-14	
	<i>Stylobasium spathulatum</i>	+	<1 %	1.25		
	<i>Terminalia supranitifolia</i>	+	<1 %	5 cm	B25-31	green felty leaf?
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	35 cm	B25	under ipocos
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	10 cm	B25-2	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %			
	<i>Triodia angusta</i> (Burrup Form)	+	<1 %	60 cm		

Triodia epactia (Burrup Form)	35-40%	33.3-50%	40cm		
Triumfetta appendiculata (Burrup Form)	+	<1 %			
Triumfetta clementii	+	<1 %			
Vigna sp. Burrup (B18)	+	<1 %		B25-22	legume

Burrup Peninsula Site B026

Described by VLL **Date** 22/05/00

Location Rockpile immediately W of Site 25 approx. 250m up-slope from the CALM gate (N of Withnell Bay]

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 478870mE, 7724247mN

Habitat Rockpile - high rockpile above high plateau. Slope faces W, ridge runs N-S

Soil Rock.

Rock Type Large - medium jointed rhyodocite - red brown, fine grained.

Vegetation Ficus platypoda var. G, Brachychiton acuminatus low open woodland over Terminalia supranitifolia, Ipomoea costata scattered shrubs over Indigofera monophylla (Burrup form) scattered low shrubs over Triodia epactia (Burrup form), Cymbopogon ambiguus very open hummock/tussock grassland.

Veg Condition Excellent

Fire Age N/A

Notes W facing, very exposed to W winds. No rockpile in front to break winds.
In species list, T= top, B= base, T+B= top and base.
Individual thickets the woodland may be as dense as 30-70%.

Rock Pile Notes Medium to large jointed rhyadocite, some large vertical rock with intermediate boulders.
Rockpile is not high, ca. 10 m.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %	2 m		B
	Amaranthus pallidiflorus	+	<1 %		B26-7	T
	Boerhavia gardneri	+	<1 %	1 m	B26-3	B
	Brachychiton acuminatus	2-3%	1-5%	3 m		T
	Cajanus cinereus	+	<1 %	40 cm		B
	Cymbopogon ambiguus	<1%	<1 %	1.10 m	B26-4	B
	Dichrostachys spicata	+	<1 %	2 m		B
	Euphorbia sp. (site 1163)	+	<1 %	25 cm	B26-9	
	Ficus platypoda var. G	3-5%	1-5%	1.5 m	B26-1	T, +[lachnoc?]B. See
	Flueggea virosa subsp. melanthesoides	+	<1 %	1.5 m		B + T
	Gomphrena cunninghamii	+	<1 %	25 cm	B26	T
	Hibiscus sturtii var. campylochlamys	+	<1 %	20 cm	B26-6	B
	Indigofera monophylla (Burrup form)	+	<1 %	30 cm		B
	Ipomoea costata	+	<1 %	1 m		T
	Mukia maderaspatana	+	<1 %	+	B26-8	B+T, +1 vine, 2,T
	Paspalidium clementii	+	<1 %	5-10 cm	B26-2	T, {recorded twice}
	Paspalidium tabulatum (Burrup Form)	+	<1 %	40 cm		T
	Rhagodia preissii subsp. obovata	+	<1 %	1 m		B + T
	Scaevola spinescens (narrow form)	+	<1 %	60 cm		B
	Solanum horridum	+	<1 %	20-40 cm	B26-10	B
	Terminalia supranitifolia	+	<1 %	1.5 m		B
	Tinospora smilacina	+	<1 %	+	B26-5	T
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	1 m		B
	Trichosanthes cucumerina	+	<1 %		B26-5b	
	Triodia epactia (Burrup Form)	2-3%	1-5%	40 cm		B
	Triumfetta appendiculata (Burrup Form)	+	<1 %	50 cm		B

Photo Notes**AMG Zone** 50 477314mE, 7720693mN 477266mE, 7720678mN**Habitat** Moderately to very steep bouldery slopes of rockpile.**Soil****Rock Type****Vegetation** Brachychiton acuminatus scattered low trees over Dichrostachys spicata, Ipomoea costata, Pittosporum phylliraeoides var. phylliraeoides scattered tall shrubs over Rhagodia eremaea scattered shrubs over Cymbopogon ambiguus scattered tussock grasses with Rhynchosia sp. Burrup (82-1C) scattered lianes.**Veg Condition** VG-E**Fire Age****Notes** >95% of plot is bare of vegetation.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Amaranthus pallidiflorus	1	1-5%	20 cm	B28-2	dead
	Boerhavia coccinea (form A)	+	<1 %	50 cm	B28-4	felty
	Brachychiton acuminatus	+	<1 %	3.5 m		
	Cleome viscosa	+	<1 %	20 cm		
	Clerodendrum tomentosum	+	<1 %	20 cm	B28-5	leaves opposite
	Commelina ensifolia	1	1-5%	10 cm		
	Cymbopogon ambiguus	1	1-5%	60 cm		=B27
	Cynanchum floribundum	1	1-5%	50 cm	B28-1	
	Dichrostachys spicata	1	1-5%	3 m		
	Dicliptera armata	+	<1 %	30 cm		
	Ehretia saligna var. saligna	+	<1 %	3.5 m		On the edge
	Gomphrena cunninghamii	1	1-5%	10 cm		
	Ipomoea costata	1	1-5%	2 m		
	Mukia maderaspatana	1	1-5%	20 cm	B28-3	
	Paspalidium tabulatum (Burrup Form)	+	<1 %	20 cm		
	Phyllanthus lacunellus	+	<1 %	30 cm		the usual
	Pittosporum phylliraeoides var. phylliraeoides	1	1-5%	3.5 m		
	Polycarpaea longiflora (red form)	+	<1 %	30 cm		On the edge
	Rhagodia eremaea	1	1-5%	1.6 m		smelly
	Rhynchosia sp. Burrup (82-1C)	1	1-5%	20 cm	B28-6	just above base
	Terminalia supranitifolia	+	<1 %	3 m		On the edge
	Tinospora smilacina	+	<1 %	3.5 m		
	Trachymene aff. oleracea (B61)	+	<1 %	10 cm		On the edge
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	20 cm		On the edge
	Trichosanthes cucumerina	+	<1 %	1.5 m		

Burrup Peninsula Site B029**Described by** MET**Date** 22/05/00

100 x

Location**Air Photo****Photo** 12**on Roll****MB****Video****N****E Photo****Photo Notes****AMG Zone** 50 476990mE, 7721116mN 476943mE, 7721035mN**Habitat** Flowline between two low spurs. Trends N-S.**Soil** Brown loamy fine sand, pebbly, amongst cobbles. Damp in places with algal crusts.**Rock Type** Cobbles are volcanic rock.**Vegetation** Corymbia hamersleyana low open woodland over Indigofera monophylla (Burrup form), Tephrosia rosea var clementii, Corchorus walcottii low open heath over Triodia epactia (Burrup form) open hummock grassland.**Veg Condition** Excellent.

Fire Age >5yrs, ?>10yrs.

Notes Pittosporum at bottom of rocks at edge is excluded from the site.

Rock Pile Notes A 100 m long length of the creek was recorded.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. lepidum (4)	+	<1 %	15-95 cm	B29-30	
	Acacia bivenosa	+	<1 %	1.9 m		
	Acacia orthocarpa	>=1	1-5%	85 cm	B29-32	
	Aerva javanica	+	<1 %	55 cm		
	Alectryon oleifolius	+	<1 %	1.3 m		At edge
	Alysicarpus muelleri	+	<1 %	40-65 cm	B29-33	leaves dropping
	Amaranthus pallidiflorus	+	<1 %	45 cm	B29-10	
	Ammannia baccifera	+	<1 %	4-30 cm	B29-24	
	Boerhavia gardneri	+	<1 %	20 cm	B29-25	
	Cenchrus ciliaris	+	<1 %	40 cm		very little grazed
	Corchorus walcottii	>=15	10-25%	20-70 cm	B29-19	common grey felty
	Corymbia hamersleyana	<=10	5-10%	1.2, 4-6 m		
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	6cm,0.9-1	B29-6,14	{recorded twice}
	Crotalaria novae-hollandiae subsp.	+	<1 %	20 cm		
	Cymbopogon ambiguus	+	<1 %	70-95 cm	B29-12	
	Cyperus squarrosus	+	<1 %	7 cm	B29-23	
	Cyperus vaginatus	+	<1 %	80 cm		
	Dichrostachys spicata	+	<1 %	30 cm		Juvenile
	Dicliptera armata	+	<1 %	30 cm		
	Digitaria ctenantha	+	<1 %	30 cm		
	Enchylaena tomentosa	+	<1 %	65 cm		
	Enneapogon caerulescens var. occidentalis	+	<1 %	12 cm	B29-34	
	Eriachne obtusa	+	<1 %	70 cm	B29-5	
	Eriachne tenuiculmis	+	<1 %	70+ cm	B29-28	
	Euphorbia aff. australis (B170-4)	+	<1 %			
	Euphorbia coghlanii	+	<1 %	15-60 cm	B29-21,29	{recorded twice}
	Euphorbia sp.	+	<1 %	5 cm		
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %			
	Evolvulus alsinoides var. villosicalyx	+	<1 %	10 cm	B29-31	
	Fimbristylis elegans	+	<1 %	8 cm	B29-18	
	Fimbristylis microcarya	+	<1 %	5-10 cm	B29-9	
	Gomphrena cunninghamii	+	<1 %	10 cm		
	Goodenia microptera	+	<1 %	35 cm	B29-2	
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	20 cm		
	Hibiscus sturtii var. campylochlamys	+	<1 %	20 cm	B29-17	
	Indigofera monophylla (Burrup form)	>+/-20	10-25%	40-80 cm		less at the south end
	Jasminum didymum subsp. lineare	+	<1 %	65 cm		
	Mollugo molluginis	+	<1 %	30 cm		
	Paspalidium clementii	+	<1 %	7 cm	B29-7	
	Paspalidium tabulatum (Burrup Form)	>1	1-5%	30-50 cm		
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	30-80 cm		
	Pluchea dentex	+	<1 %			
	Pluchea rubelliflora	+	<1 %	6 cm	B29-11	Juvenile
	Polycarpaea longiflora (red form)	+	<1 %	25 cm		
	Portulaca oleracea	+	<1 %	3 cm	B29-26	
	Portulaca pilosa	+	<1 %	7-20 cm	B29-1	
	Pterocaulon sphacelatum	+	<1 %	40-60 cm	B29-8	
	Rhagodia eremaea	+	<1 %	1 m		
	Rhynchosia cf. minima	2-3	1-5%	40 cm	B29-22	grey not sticky
	Rhynchosia sp. Burrup (82-1C)	+	<1 %	10 cm	B29-16	green sticky
	Sida aff. fibulifera (oblong; MET 15 220)	+	<1 %	25 cm	B29-15	sprawling 50 cm
	Solanum horridum	+	<1 %	15 cm	B29-13	yellow green, +/-
	Stemodia grossa	+	<1 %	5 cm		

Streptoglossa decurrens	+	<1 %			
Stylosanthes hamata	+	<1 %	15 cm	B29-3	pea, weed
Swainsona formosa	+	<1 %	10-30		Sturts pea
Tephrosia rosea var. clementii	<5	1-5%	50-80 cm		
Tephrosia sp.B Kimberley Flora(C.A.Gardner 7300)	+	<1 %	65 cm	B29-4	
Trachymene aff. oleracea (B61)	+	<1 %	10+ cm	B29-27	
Trichodesma zeylanicum var. zeylanicum	+	<1 %	35 cm		
Triodia angusta (Burrup Form)	+	<1 %	80 cm		
Triodia epactia (Burrup Form)	>15	10-25%	30-50 cm	B29-20	+ smut
Triumfetta clementii	+	<1 %	20 cm		green

Burrup Peninsula Site B030

Described by MET **Date** 25/05/00

Location Mt. Burrup general area

Air Photo **Photo** 11 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 482583mE, 7728091mN 482529mE, 7728065mN 482574mE, 7728053mN

Habitat Hillslope facing approx. N, rounded moderate slope.

Soil Gravelly, pebbly red brown (fine) sandy loam amongst cobbles and some boulders.

Rock Type Light grey? Igneous/volcanic (weathers pale pinkish-whitish).

Vegetation Acacia inaequilatera scattered tall shrubs over Acacia bivenosa, Acacia colei scattered shrubs over Indigofera monophylla (Burrup form) low open shrubland over Themeda sp. Burrup (B84), Triodia epactia (Burrup form) tussock/hummock grassland with Rhynchosia cf. minima low lianes.

Veg Condition Excellent

Fire Age >5, ?>10 years

Notes Similar vegetation on opposite slope.

A Corymbia hamersleyana just outside plot.

SE Peg 5 m short of 50 m to avoid rockpile @ 50K-04-82-574, UTM-77-28-053.

Ca. 50 m to E spur has Triodia wiseana (Burrup form) (also in the creek between spurs). The creek to the N of the site has Eucalyptus victrix and scattered shrubs over Triodia angusta (Burrup form).

Chrysopogon trichodesmoides was 300 m NE of the plot (AMG 50K 04-82-875, UTM 77-28-049)(Shrub to 70 cm in small open gully over Themeda sp. Burrup (B84) and Triodia wiseana (Burrup form)).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	25-50 cm	B30-10	
	Acacia bivenosa	+	<1 %	0.5, 1-2 m		
	Acacia colei	+	<1 %	1-1.4 m	B30-2	broad phyllodes
	Acacia coriacea subsp. coriacea	+	<1 %	1.5 m	B30-16	one plant
	Acacia inaequilatera	+	<1 %	2-3 m		1
	Acacia pyrifolia (green)	+	<1 %	1.4 m	B30-20	
	Acacia pyrifolia (slender, white)	+	<1 %	1 m	B30-21	lower bark grey, not
	Boerhavia gardneri	+	<1 %	20 cm	B30-7	
	Bonamia media var. villosa	+	<1 %	3 cm		
	Bulbostylis barbata	+	<1 %	7 cm	B30-14	
	Cajanus cinereus	+	<1 %	50 cm	B30-15	petals yellow
	Corchorus walcottii	+	<1 %	15 cm	B30-5	
	Corymbia hamersleyana	+	<1 %	70 cm		
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	25 cm		
	Crotalaria novae-hollandiae subsp.	+	<1 %	20-35 cm		
	Cynanchum floribundum	+	<1 %	12 cm	B30-12	
	Euphorbia coghlanii	+	<1 %	40 cm	B30-17	
	Gomphrena cunninghamii	+	<1 %	10 cm		
	Goodenia microptera	+	<1 %	5 cm	B30-6	

<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	20+ cm	
<i>Hybanthus aurantiacus</i>	+	<1 %	30 cm	
<i>Indigofera linifolia</i>	+	<1 %	15-30 cm	
<i>Indigofera monophylla</i> (Burrup form)	<=5	1-5%	50-75 cm	
<i>Ipomoea costata</i>	+	<1 %	1.2 m	Only on small outcrop
<i>Mollugo molluginis</i>	+	<1 %	10 cm	
<i>Mukia maderaspatana</i>	+	<1 %	40 cm	B30-9
<i>Pterocaulon sphacelatum</i>	+	<1 %	30-50 cm	B30-4
<i>Rhagodia eremaea</i>	+	<1 %	50 cm	Only on small outcrop
<i>Rhynchosia</i> cf. <i>minima</i>	+/-10	5-10%	15-40 cm	B30-3
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	30 cm	B30-19
<i>Solanum horridum</i>	+	<1 %	10 cm	B30-13
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	15+ cm	B30-11
<i>Tephrosia supina</i>	+	<1 %	5-20 cm	B30-8
<i>Themeda</i> sp. Burrup (B84)	>=25	25-33.3%	40-60 cm	B30-1
<i>Triodia epactia</i> (Burrup Form)	>=25	25-33.3%	25-40 cm	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	15 cm	
<i>Triumfetta clementii</i>	+	<1 %	15 cm	

Burrup Peninsula Site B031

Described by MET **Date** 25/05/00

Location North of Mt. Burrup.

Air Photo **Photo** 10 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 483097mE, 7727818mN 483063mE, 7727840mN

Habitat Rockpile/ large outcrop. Has very steep slopes. In effect is a small hill (knoll?).

Soil

Rock Type Granite (or close - feldspar, quartz and a small amount of a dark mineral).

Vegetation *Brachychiton acuminatus* scattered low trees over *Ehretia saligna* var. *saligna*, *Flueggia virosa* subsp. *melanthesoides* scattered tall shrubs over *Abutilon* aff. *dioicum* (HD72-14) scattered shrubs to open shrubland over *Themeda* sp. Burrup (B84), *Cymbopogon ambiguus* scattered to very open tussock grassland with *Dicliptera armata* open annual herbland

Veg Condition Excellent.

Fire Age >5 yrs? >10 yrs.

Notes Recorded to crest and around corner to patch with *Brachychiton acuminatus*. Most of the vegetation occurs as small patches with cover >10%.

Rock Pile Notes <10% soil cover, has *Triodia angusta* on such areas. Has mostly boulders (>50 cm -> 2+ m) and some outcrop. Boulders angular, some small areas with cobbles falling between boulders, near base of slopes.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>dioicum</i> (HD72-14)	+/-2	1-5%	0.6-1.8 m	B31-1	
	<i>Abutilon fraseri</i>	+	<1 %	45 cm	B31-16	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1-1.9 m		
	<i>Boerhavia gardneri</i>	+	<1 %	20-30 cm	B31-5	
	<i>Brachychiton acuminatus</i>	+	<1 %	4 m		
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	50 cm		
	<i>Cassytha capillaris</i>	+	<1 %	60 cm	B31-8	
	<i>Cleome viscosa</i>	+	<1 %	20 cm		
	<i>Commelina ensifolia</i>	+	<1 %	15 cm	B31-6	
	<i>Commicarpus australis</i>	+	<1 %	30 cm	B31-11	
	<i>Corchorus walcottii</i>	+	<1 %	25 cm	B31-20	
	<i>Cymbopogon ambiguus</i>	+	<1 %	40-60 cm	B31-3	
	<i>Cyperus hesperius</i>	+	<1 %	75 cm	B31-9	
	<i>Dicliptera armata</i>	>=5	5-10%	15-35 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	1.5-3.5 m		

Euphorbia sp. (site 1163)	+	<1 %	20 cm	B31-13	
Ficus platypoda var. F	+	<1 %	1.6 cm	B31-18	
Ficus platypoda var. G	+	<1 %	1.8 m	B31-12	Hairy, east side
Flueggea virosa subsp. melanthesoides	+	<1 %	1-1.7 m		
Indigofera monophylla (Burrup form)	+	<1 %	50 cm		only along lower edge.
Indigofera trita	+	<1 %	35 cm	B31-21	
Ipomoea costata	+	<1 %	50+ cm		
Jasminum didymum subsp. lineare	+	<1 %	30 cm		Juvenile
Melhania sp. Burrup	+	<1 %	40-60 cm	B31-7	
Paspalidium clementii	+	<1 %	5 cm	B31-17	
Paspalidium tabulatum (Burrup Form)	+	<1 %	30 cm		
Ptilotus obovatus var. obovatus	+	<1 %	40-60 cm	B31-15	
Rhagodia eremaea	+	<1 %	0.5-1 m		
Rhynchosia sp. Burrup (82-1C)	2-3	1-5%	20-60 cm	B31-4	
Scaevola spinescens (narrow form)	+	<1 %	1.4-1.8 m	B31-10	
Solanum horridum	+	<1 %	10 cm	B31-19	
Tephrosia aff. supina (MET 12,357)	+	<1 %	30 cm		only along lower edge.
Terminalia supranitifolia	+	<1 %	1-1.5 m		
Themeda sp. Burrup (B84)	1-2	1-5%	40-70 cm	B31-2	
Trichodesma zeylanicum var. zeylanicum	+	<1 %	2 m		
Trichosanthes cucumerina	+	<1 %	2.2 m		
Triodia angusta (Burrup Form)	+	<1 %	40-70 cm	B31-14	
Triodia epactia (Burrup Form)	+	<1 %	20 cm		
Triumfetta appendiculata (Burrup Form)	+	<1 %	60 cm		

Burrup Peninsula Site B032

Described by ASW **Date** 22/05/00

Location A few metres NE of Telstra tower on Mt. Wongama.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 479966mE, 7724106mN 479984mE, 7724036mN

Habitat Flat to gently sloping field of boulders (mainly small) and smaller stones, with a few small outcrops on top of the mountain and bordering the rockpile slope to the E.

Soil Sparse, red-brown clayey.

Rock Type Boulder field 'granophyre'.

Vegetation Acacia colei scattered shrubs over Acacia orthocarpa, Goodenia stubbsiana low open shrubland over Triodia epactia (Burrup form), Themeda sp. Burrup (B84) closed hummock/tussock grassland.

Veg Condition Good - Very Good.

Fire Age <5 yrs?

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia colei	<2	1-5%	1.5 m		broad leaf
	Acacia orthocarpa	1<=5	1-5%	35 cm		
	Bonamia media var. villosa	+	<1 %	10 cm	B32-9	
	Cajanus cinereus	1	1-5%	15 cm	B32-13	pea, 3 leaflets, {recorded
	Cassia venusta	+	<1 %	15 cm	B32-1	
	Cassytha capillaris	+	<1 %	30 cm	B32-4	
	Euphorbia coghlanii	+	<1 %	15 cm	B32-8	
	Euphorbia sp. (site 1163)	+	<1 %	5 cm	B32-7	small
	Evolvulus alsinoides var. decumbens	+	<1 %	5 cm	B32-15	very small/young fruit.
	Goodenia microptera	1	1-5%	5-40 cm	B32-12,6	Juvenile
	Goodenia stobbsiana	>5	5-10%	50 cm	B32-5	
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	50 cm		

<i>Hibiscus sturtii</i> var. <i>platyklamys</i>	+	<1 %	5 cm	B32-10	
<i>Hybanthus aurantiacus</i>	+	<1 %	5-20 cm	B32-11	{recorded twice}
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	15 cm		
<i>Polygala</i> sp. (M23-2)	+	<1 %	5 cm	B32-19	
<i>Pterocaulon sphacelatum</i>	+	<1 %	10 cm		C/I additional notes
<i>Themeda</i> sp. Burrup (B84)	30	25-33.3%	60 cm	B32-2	
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	5 cm		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	1	1-5%	10 cm		
<i>Triodia epactia</i> (Burrup Form)	50	33.3-50%	50 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	10 cm		felty
<i>Triumfetta clementii</i>	1	1-5%	10 cm		small
<i>Triumfetta maconochieana</i>	1	1-5%	30 cm	B32-3	very small

Burrup Peninsula Site B033

Described by VLL **Date** 22/05/00 **50x50m**

Location Approximately 0.8-1 km W of Mt. Wongama station and 600 m E of CALM track, high exposed plateau W of deep broad gully 36.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 479009mE, 7724271mN 478977mE, 7724221mN

Habitat Broad open exposed plateau, stony [3-20 cm diam]. No rockpiles, no large stones or boulders, no outcrops.

Soil Skeletal red-brown.

Rock Type Small stones 3-10 cm and some to 20 cm diameter.

Vegetation *Grevillea pyramidalis* subsp. *pyramidalis*, *Acacia colei* scattered shrubs over *Triodia epactia* (Burrup form) hummock grassland.

Veg Condition Excellent.

Fire Age N/A

Notes Good example of high exposed stony plateau with no "noise".

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia colei</i>	+	<1 %	1-2 m	B33-8	Hairy variant
	<i>Acacia orthocarpa</i>	+	<1 %	60 cm		
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	15 cm	B33-4	prostrate?
	<i>Cajanus cinereus</i>	+	<1 %	25 cm		
	<i>Cassutha capillaris</i>	+	<1 %		B33-9	trailing
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	3 cm	B33-10	small herb, short stiff
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1-1.1 m		
	<i>Mollugo molluginis</i>	+	<1 %	15 cm		
	<i>Paspalidium clementii</i>	+	<1 %	3 cm		well grazed
	<i>Polygala</i> sp. (M23-2)	+	<1 %	1.5 cm	B33-11	small herb, = an earlier
	<i>Pterocaulon sphacelatum</i>	+	<1 %	45 cm		
	<i>Ptilotus fusiformis</i> var. <i>fusiformis</i>	+	<1 %	25 cm	B33-5	fus/gau
	<i>Sida cardiophylla</i>	+	<1 %	30 cm	B33-1	
	<i>Solanum horridum</i>	+	<1 %	20 cm		prostrate
	<i>Solanum phlomoides</i>	+	<1 %	3-30 cm		
	<i>Streptoglossa decurrens</i>	+	<1 %	15 cm		
	<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %	45 cm	B33-7	
	<i>Themeda</i> sp. Burrup (B84)	+	<1 %	30 cm		
	<i>Triodia epactia</i> (Burrup Form)	50%	33.3-50%	20 cm		Stunted-exposed
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	20 cm	B33-3	
	<i>Triumfetta clementii</i>	+	<1 %	15 cm	B33-6	aff clementii?
	<i>Triumfetta maconochieana</i>	+	<1 %	15 cm	B33-2	sp. nov (ex lept)?

Burrup Peninsula Site B034**Described by** MET **Date** 25/05/00**Location** N of Mt. Burrup.**Air Photo** **Photo** 9 **on Roll** MB **Video** N **E Photo****Photo Notes****AMG Zone** 50 483341mE, 7727892mN 483408mE, 7727871mN 483388mE, 7727913mN**Habitat** Gentle slope below low 'ridge' of rockpiles into an open swale.**Soil** Brown [dark when wet], clayey fine sand, pebbly with pebble scatter and cobbles [small] on surface.**Rock Type****Vegetation** *Acacia bivenosa* tall scattered shrubs over *Indigofera monophylla* (Burrup form) scattered low shrubs over *Triodia wiseana* (Burrup form) hummock grassland with *Rhynchosia* cf. *minima* very open lianes.**Veg Condition** Excellent.**Fire Age** >5 yrs, ?>10 yrs.ˆ**Notes** Soil gets very soft when very wet [kangaroos leave deep prints]. *Acacia inaequilatera* just out of plot. Some low outcrop [weathered]. Pebble scatter is weathered, angular.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	<=2	1-5%	1-3 m		
	<i>Acacia colei</i>	+	<1 %	0.5 m+	B34-2	broad
	<i>Acacia pyrifolia</i> (green)	+	<1 %		B34-14	
	<i>Acacia pyrifolia</i> (slender, white)	+	<1 %	0.5-2 m	B34-4	stem slender
	<i>Boerhavia gardneri</i>	+	<1 %	15 cm	B34-3	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	1 cm		
	<i>Cassytha capillaris</i>	+	<1 %	30 cm	B34-6	
	<i>Corchorus walcottii</i>	+	<1 %	30 cm	B34-10	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	10 cm		
	<i>Euphorbia</i> aff. <i>australis</i> (B170-4)	+	<1 %	2cm		B170-4
	<i>Euphorbia</i> sp. (B34-11)	+	<1 %	1 cm	B34-11	
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	50-80 cm	B34-12	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	50 cm	B34-13	through <i>Triodia</i>
	<i>Goodenia microptera</i>	+	<1 %	10 cm	B34-9	
	<i>Gossypium australe</i> (Burrup Peninsula form)	+	<1 %	50-75 cm	B34-5	
	<i>Indigofera colutea</i>	+	<1 %	10 cm		
	<i>Indigofera monophylla</i> (Burrup form)	<=2	1-5%	40-60 cm		
	<i>Indigofera trita</i>	+	<1 %	5 cm		=B31
	<i>Polygala</i> aff. <i>isingii</i>	+	<1 %	2 cm		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	50 cm	B34-8	
	<i>Rhynchosia</i> cf. <i>minima</i>	>5	5-10%	10-50 cm	B34-1	grey, not sticky
	<i>Streptoglossa decurrens</i>	+	<1 %	35 cm	B34-7	in lowest corner only
	<i>Swainsona formosa</i>	+	<1 %	20-40 cm		
	<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	30 cm		mauve
	<i>Themeda</i> sp. Burrup (B84)	+	<1 %	35-50 cm		=B31
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	30-50 cm		
	<i>Triodia angusta</i> (Burrup Form)	+	<1 %		B34-"x"	
	<i>Triodia wiseana</i> (Burrup Form)	>=60	50-75%	30-55 cm	B34-15	
	<i>Triumfetta clementii</i>	+	<1 %	10 cm		

Burrup Peninsula Site B035**Described by** ASW **Date** 22/05/00**Location** Near top of rockpiles E of B32 and Telstra tower, approx. 130 degrees from tower.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 480063mE, 7724002mN 480061mE, 7723931mN

Habitat Pockets of soil in gently to moderately sloping surface of rockpile of large bouldes and smaller stones.

Soil**Rock Type**

Vegetation [Inadequate data recorded for a vegetation description to be completed.]

Veg Condition Excellent, some very good.

Fire Age

Notes Hibiscus sp. near NE corner [1.4 m, B35-10].

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %	3 m		
	Alectryon oleifolius	+	<1 %	1 m		
	Boerhavia gardneri	+	<1 %	25 cm	B35-3	
	Brachychiton acuminatus	+	<1 %	2.5 m		
	Capparis spinosa var. nummularia	+	<1 %	60 cm		
	Clerodendrum tomentosum	+	<1 %	1.5 m	B35-6	badly eaten
	Commicarpus australis	+	<1 %	60 cm		
	Dichrostachys spicata	+	<1 %	1.5 m		
	Dicliptera armata	+	<1 %	30 cm		
	Ehretia saligna var. saligna	+	<1 %			
	Enchylaena tomentosa	+	<1 %	50 cm		
	Ficus opposita var. indecora	+	<1 %	1.2 m	B35-9	
	Ficus platypoda var. G	+	<1 %	3.5 m	B35-1	
	Flueggea virosa subsp. melanthesoides	+	<1 %	2.5 m		
	Jasminum didymum subsp. lineare	+	<1 %	20 cm		
	Mukia maderaspatana	+	<1 %	30 cm	B35-7	
	Myoporum montanum	+	<1 %	1.8 m	B35-4	??Eremophila/Myoporu
	Paspalidium tabulatum (Burrup Form)	+	<1 %	50 cm		
	Phyllanthus ciccoides	+	<1 %	1 m	B35-8	
	Pittosporum phylliraeoides var. phylliraeoides	+	<1 %	4 m		
	Plumbago zeylanica	+	<1 %	70 cm	B35-2	white flowers
	Rhagodia eremaea	+	<1 %	2.5 m		smells
	Scaevola spinescens (narrow form)	+	<1 %	1.5 m	B35-5	
	Solanum horridum	+	<1 %	20 cm		prostrate
	Tinospora smilacina	+	<1 %	2 m		
	Trichosanthes cucumerina	+	<1 %	2 m		

Burrup Peninsula Site B036

Described by VLL **Date** 22/05/00 1x50m

Location First gully to W of Mt. Wongama approx. 350-400 m down from Mt. Wongama Station.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 479201mE, 7724255mN

Habitat Very narrow gully, stony floor 1 m wide, stony banks approx. 2 m before steep rocky slopes. Rocks in gully are rounded/smooth, rocks on hills on each side are weathered variably. Gully flows N-S.

Soil Very little soil, dark alluvial brown beneath stones/mostly rocky. Litter covered (dead rhymin, cyp-eri) cyp, stemodia.

Rock Type Very fine grained rhyadocite, well weathered.

Vegetation Eucalyptus victrix, Brachychiton acuminatus low woodland over Cyperus vaginatus, Cyperus

bifax sedgeland with *Dicliptera armata* annual herbland and *Rhynchosia* sp. Burrup (82-1C), (*Rhynchosia* cf. *minima*) open annual lianes.

Veg Condition Excellent.

Fire Age N/A

Notes Gully begins with stony floor but at approx. 25 m pools of water have more soil and support *Cyperus*, *Stemodia*, *Rhynchosia* cover under *Eucalyptus victrix*. At 50 m rock hillslope banks widen out and habitat changes to *Triodia angusta* (Burrup form), *Rhynchosia*. Transect was stopped at this point. Most of the gully is either stony or completely overgrown, little space for smaller *Cyperaceae* [*Fimbristylis* sp. etc.] and other herbs.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>dioicum</i> (HD72-14)	+	<1 %	1.5 m	B36-5	very tall
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1 m		
	<i>Ammannia baccifera</i>	+	<1 %	3-10 cm	B36-12	{recorded twice}
	<i>Boerhavia gardneri</i>	+	<1 %		B36-2	
	<i>Brachychiton acuminatus</i>	<5%	1-5%	2.5 m		
	<i>Cymbopogon ambiguus</i>	+	<1 %	1 m	B36-3	
	<i>Cyperus bifax</i>	25	25-33.3%	1 m	B36-7	
	<i>Cyperus vaginatus</i>	40	33.3-50%	1 m	B36-10,1	=B36-1?{recorded
	<i>Dichrostachys spicata</i>	+	<1 %	1.5 m		
	<i>Dicliptera armata</i>	>=20	10-25%	30 cm		
	<i>Eragrostis tenellula</i>	+	<1 %	5 cm	B36-11	Poaceae, delicate
	<i>Eriachne tenuiculmis</i>	+	<1 %	40 cm	B36-8	
	<i>Eucalyptus victrix</i>	15%	10-25%	4 m		
	<i>Pluchea dentex</i>	+	<1 %	40 cm	B36-9	Asteraceae
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %			scrambling [presumed
	<i>Rhynchosia</i> sp. Burrup (82-1C)	15	10-25%		B36-13	scrambling, viscid
	<i>Stemodia grossa</i>	+	<1 %		B36-4	
	<i>Tephrosia leptoclada</i>	+	<1 %	90 cm		bank
	<i>Terminalia supranatifolia</i>	+	<1 %	1 m		
	<i>Triodia angusta</i> (Burrup Form)	+	<1 %			
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm	B36-6	

Burrup Peninsula Site B038

Described by ASW **Date** 22/05/00

Location Steep E facing slope 120 degrees from Telstra tower.

Air Photo **Photo** **on Roll** **Video** N E **Photo**

Photo Notes

AMG Zone 50 480092mE, 7724026mN 480171mE, 7724047mN

Habitat Pockets of bouldery soil and vegetation.

Soil

Rock Type Granophyre?

Vegetation *Brachychiton acuminatus*, *Pittosporum phylliraeoides* var. *phylliraeoides* scattered low trees over *Acacia coriacea* subsp. *coriacea*, *Ipomoea costata* high shrubland over *Rhagodia eremaea* shrubland over *Triodia angusta* (Burrup form) open hummock grassland with *Dicliptera armata*, *Commicarpus australis* herbland.

Veg Condition Very Good to excellent.

Fire Age <1990

Notes *Terminalia supranatifolia* nearby (1.5 m). Approx. 50% of plot is vegetation.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	15	10-25%	2.5 m		

<i>Alectryon oleifolius</i>	+	<1 %	30 cm	
<i>Brachychiton acuminatus</i>	+	<1 %	3 m	
<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	20 cm	cap num - capsinu
<i>Cleome viscosa</i>	+	<1 %	30 cm	
<i>Commicarpus australis</i>	15	10-25%	80 cm	*
<i>Dichrostachys spicata</i>	+	<1 %	2.5 m	
<i>Dicliptera armata</i>	15	10-25%	40 cm	*
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1	1-5%	2 m	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	1	1-5%	2 m	=B35-10 {no such no.,
<i>Ipomoea costata</i>	2	1-5%	2.5 m	
<i>Mukia maderaspatana</i>	1	1-5%	50 cm	
<i>Myoporum montanum</i>	+	<1 %	40 cm	erem-myoporum?
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm	
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	1	1-5%	3 m	
<i>Rhagodia eremaea</i>	10	5-10%	1.5 m	
<i>Scaevola spinescens</i> (narrow form)	2	1-5%	1.2 m	
<i>Solanum horridum</i>	+	<1 %	30 cm	
<i>Tinospora smilacina</i>	1	1-5%	2 m	
<i>Trichosanthes cucumerina</i>	1	1-5%	2 m	
<i>Triodia angusta</i> (Burrup Form)	20	10-25%	80 cm	*

Burrup Peninsula Site B039

Described by VLL **Date** 22/05/00 2x50m

Location 2m wide transects on either bank of a gully [site B36 recorded in gully].

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 479201mE, 7724255mN

Habitat Rocky banks sloping down into very narrow drainage gully. Runs N-S.

Soil Skeletal red-brown, rocks and boulders.

Rock Type Rocks and rounder boulders, fine grained red-grey.

Vegetation *Cajanus cinereus*, *Tephrosia* sp. B. Kimberley Flora (C.A. Gardner 7300), *Acacia orthocarpa* scattered shrubs over *Triodia epactia* (Burrup form), *Triodia angusta* (Burrup Form) hummock grassland with *Rhynchosia* sp. Burrup (82-1C) lianes.

Veg Condition Excellent.

Fire Age

Notes Originally called B37, specimens will be numbered B37.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	1 m	B37-2	
	<i>Abutilon lepidum</i>	+	<1 %	28 cm	B37-8	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	2 m		
	<i>Acacia elachantha</i>	+	<1 %	40 cm		
	<i>Acacia orthocarpa</i>	+	<1 %	80 cm		
	<i>Alectryon oleifolius</i>	+	<1 %	1.5 m		semi-prostrate
	<i>Boerhavia gardneri</i>	+	<1 %	80 cm	B37-6	sprawling
	<i>Boerhavia</i> sp.	+	<1 %			=B36 (1)
	<i>Brachychiton acuminatus</i>	+	<1 %	3 m		
	<i>Cajanus cinereus</i>	+	<1 %	1 m		
	<i>Cleome viscosa</i>	+	<1 %	30 cm		
	<i>Cymbopogon ambiguus</i>	+	<1 %	1.25 m		=B36
	<i>Dichrostachys spicata</i>	+	<1 %	60 cm		
	<i>Eriachne tenuiculmis</i>	+	<1 %	40 cm		=B36
	<i>Euphorbia</i> sp. (site 1163)	+	<1 %	28 cm	B37-3	
	<i>Ficus opposita</i>	+	<1 %	1.25 m	B37-4	see sheet
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.5 m		

Indigofera monophylla (Burrup form)	+	<1 %	70 cm		
Ipomoea costata	+	<1 %	1.5 m		
Mukia maderaspatana	+	<1 %			scrambling
Paspalidium clementii	+	<1 %	10 cm		grazed
Paspalidium tabulatum (Burrup Form)	+	<1 %	40 cm		
Phyllanthus maderaspatensis var. angustifolius	+	<1 %	40 cm		
Pluchea dentex	+	<1 %	50 cm	B37-7	
Pterocaulon sphacelatum	+	<1 %	40 cm		
Rhynchosia sp. Burrup (82-1C)	40%	33.3-50%			viscid, scrambling
Scaevola spinescens (narrow form)	+	<1 %	1 m	B37-5	
Solanum horridum	+	<1 %	20 cm		
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)	+	<1 %	1 m	B37-9	
Terminalia supranitifolia	+	<1 %	1.25 m		
Themeda sp. Burrup (B84)	+	<1 %	30 cm		
Tinospora smilacina	+	<1 %			vine
Trichodesma zeylanicum var. zeylanicum	+	<1 %	80 cm		
Triodia angusta (Burrup Form)	30	25-33.3%	1.1 m		
Triodia epactia (Burrup Form)	50	33.3-50%	40 cm		
Triumfetta appendiculata (Burrup Form)	+	<1 %	5 to 40	B37-1	{recorded twice}
Triumfetta clementii	+	<1 %	25 cm		

Burrup Peninsula Site B040

Described by VLL **Date** 25/05/00 3.5x100 m

Location CALM track- toward north end- terminal point.

Air Photo **Photo** 2 **on Roll** F1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 482096mE, 7728043mN 482022mE, 7727978mN

Habitat Drainage gully along valley surrounded by rocky mountain slopes. The gully is narrow (2-3 m only, broadens to 5 m in places), stony, well worn stones and boulders (5-25 cm in diam.)

Soil Colluvial red-grey soil, skeletal beneath stones.

Rock Type Well worn grey-redbrown, fine grained.

Vegetation Eucalyptus victrix low woodland over Triodia angusta (Burrup form), Triodia epactia (Burrup form), Cyperus vaginatus, Cyperus bifax hummock grassland/sedgeland with Sesbania cannabina tall annual herbland and Stenandrium grossa, Dicliptera armata annual open low herbland.

Veg Condition Excellent, no weeds.

Fire Age N/A

Notes The entire site was within a narrow gully, one small section of approx. 10 m had rocky walls [rockpile on each side]. All the gully sampled had some water.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	+	<1 %	1.25 m		
	Acacia colei	+	<1 %	1 m	B40-15	
	Acacia coriacea subsp. coriacea	+	<1 %	1.5 m		
	Ammannia baccifera	+	<1 %	20-30 cm		
	Brachychiton acuminatus	+	<1 %	3 m		rocky wall, also in gully
	Cassytha capillaris	+	<1 %		B40-13	entwined on triang
	Corchorus walcottii	+	<1 %	25 cm	B40-9	
	Cymbopogon ambiguus	+	<1 %	40 cm	B40-8	
	Cyperus bifax	10-15%	10-25%	1.1 m	B40-7	{recorded twice}
	Cyperus squarrosus	+	<1 %	15 cm		
	Cyperus vaginatus	10-15%	10-25%	60 cm	B40-10	{recorded twice}
	Dicliptera armata	5-10%	5-10%			
	Ehretia saligna var. saligna	+	<1 %	2 m		
	Eucalyptus victrix	10-20	10-25%	4 m		
	Eulalia aurea	+	<1 %	50 cm	B40-21	Poaceae - grass

<i>Euphorbia coghlanii</i>	+	<1 %	25 cm	B40-14	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.5 m		rocky wall
<i>Indigofera linifolia</i>	+	<1 %	40 cm	B40-20	V. healthy specimen
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	35 cm		
<i>Indigofera trita</i>	+	<1 %		B40-19,6	B40-6
<i>Melhania</i> sp. Burrup	+	<1 %	25 cm	B40-18	
<i>Mukia maderaspatana</i>	+	<1 %		B40-11	vine
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	35 cm		rocky walls
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	30 cm		
<i>Pluchea dentex</i>	+	<1 %	40 cm	B40-3	
<i>Pluchea rubelliflora</i>	+	<1 %	40 cm	B40-2	
<i>Rhynchosia</i> cf. <i>minima</i>	10	5-10%		B40-5	grey-green
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %		B40-12	large leaf scrambling
<i>Sesbania cannabina</i>	50	33.3-50%	1-2 m		
<i>Stemodia grossa</i>	5-10%	5-10%	30 cm	B40-1	
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	40 cm	B40-17	mauve
<i>Terminalia canescens</i>	+	<1 %	3 m		rocky wall
<i>Tinospora smilacina</i>	+	<1 %			vine
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	20 cm	B40-4	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	45 cm		
<i>Triodia angusta</i> (Burrup Form)	20-25	10-25%	40-60 cm		
<i>Triodia epactia</i> (Burrup Form)	5-10%	5-10%	30 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm	B40-16	{recorded twice}
<i>Triumfetta clementii</i>	+	<1 %	10 cm		

Burrup Peninsula Site B041

Described by	VLL	Date	25/05/00	see sheet
Location	Approximately 70 m SE side of CALM track up centre of Peninsula, approx 50 m SE of Site B40.			
Air Photo	Photo	on Roll	Video	N E Photo
Photo Notes				
AMG Zone	50 481876mE, 7727956mN 481834mE, 7727951mN 481872mE, 7728015mN 481897mE, 7728010mN			
Habitat	Gentle, north facing, rocky, <i>Triodia</i> covered slope. Slope is undulating - only crest of undulation is sampled.			
Soil	Skeletal red silt.			
Rock Type	Fine-grained red stones, boulders and rocks 20-80 cm.			
Vegetation	<i>Indigofera monophylla</i> (Burrup form) low shrubland over <i>Triodia epactia</i> (Burrup form) hummock grassland.			
Veg Condition	Excellent. NO weeds.			
Fire Age	N/A			
Notes	Slope is undulating and the quadrat has been placed so that the upper part of the slope is sampled, not the swale.			

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	25 cm	B41-12	
	<i>Boerhavia coccinea</i> (form A)	+	<1 %	30 cm	B41-7	
	<i>Boerhavia gardneri</i>	+	<1 %	30 cm	B41-8	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	3 cm	B41-9	
	<i>Brachychiton acuminatus</i>	+	<1 %	1 m		occurs in isolation
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	30 cm		
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	30 cm	B41-10	
	<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	25 cm		
	<i>Cynanchum floribundum</i>	+	<1 %		B41-3	vine
	<i>Euphorbia coghlanii</i>	+	<1 %	20 cm	B41-4	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	20 cm		
	<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		

<i>Goodenia microptera</i>	+	<1 %	35 cm	B41-2	
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1.25 m		
<i>Hybanthus aurantiacus</i>	+	<1 %	30 cm		
<i>Indigofera colutea</i>	+	<1 %	15 cm		
<i>Indigofera linifolia</i>	+	<1 %	25 cm		
<i>Indigofera monophylla</i> (Burrup form)	10-15	10-25%	40 cm	B41-1	
<i>Ipomoea costata</i>	+	<1 %	1.25 m		
<i>Mollugo molluginis</i>	+	<1 %	25 cm		
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	20 cm		
<i>Pterocaulon sphaeranthoides</i>	+	<1 %	40 cm		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %		B41-6	scrambling
<i>Streptoglossa decurrens</i>	+	<1 %	35 cm		
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	35 cm	B41-5	mauve
<i>Themeda</i> sp. Burrup (B84)	+	<1 %	45 cm		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	80 cm		
<i>Triodia epactia</i> (Burrup Form)	40%	33.3-50%	30 cm		
<i>Triodia wiseana</i> (Burrup Form)	+	<1 %	45 cm	B41-11	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	45 cm		
<i>Triumfetta clementii</i>	+	<1 %	10 cm		

Burrup Peninsula Site B042

Described by VLL **Date** 25/05/00 100x2-5m

Location Approximately 150 m above CALM track and B40.

Air Photo **Photo** **on Roll** **Video** **N** **E** **Photo**

Photo Notes

AMG Zone 50 482068mE, 7727974mN 482095mE, 7727876mN

Habitat Steep rockslope gully between large, large-jointed rhyadocite rockpiles

Soil Skeletal.

Rock Type Large jointed fine-grain rhyadocite.

Vegetation *Eucalyptus victrix*, (*Brachychiton acuminatus*, *Terminalia canescens*) low open forest over *Cyperus vaginatus* very open sedgeland with *Sesbania cannabina* annual open tall herbland and *Dicliptera armata* low annual open herbland with *Rhynchosia* sp. Burrup (82-1C) open annual lianes.

Veg Condition Excellent [disturbed naturally] long waterfall down face of rocks, but NO weeds.

Fire Age

Notes Understorey overgrown with *Rhynchosia* sp. Burrup (82-1C) and *Dicliptera armata*. Stayed within gully - water trickling down rocks and small pools all the way to the transect. *Sesbania cannabina* formed shrubland in pools.

Rock Pile Notes Rocks vertical and upright at top of rockpile, then weathering to large rocks between.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Amaranthus pallidiflorus</i>	+	<1 %	25 cm	B42-8	
	<i>Ammannia baccifera</i>	+	<1 %	40 cm	B42-13	multiflora? V. red
	<i>Boerhavia gardneri</i>	+	<1 %	25 cm	B42-10	
	<i>Brachychiton acuminatus</i>	5	1-5%	2 m		
	<i>Commelina ensifolia</i>	+	<1 %	30 cm	B42-9	
	<i>Cymbopogon ambiguus</i>	+	<1 %	1.25 m	B42-1	
	<i>Cyperus vaginatus</i>	2-5	1-5%	1.25		cyp aff vag, see B40-10
	<i>Dicliptera armata</i>	15-20	10-25%	40 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	1-1.5 m		
	<i>Eriachne tenuiculmis</i>	+	<1 %	40 cm	B42-12	
	<i>Eucalyptus victrix</i>	20-25%	10-25%	4 m		
	<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	1 m	B42-4	Fic opp ? Opp
	<i>Ficus platypoda</i> var. <i>A</i>	+	<1 %	2 m	B42-7	
	<i>Ficus virens</i> var. <i>sublanceolata</i>	+	<1 %	2.5 cm	B42-15	Fic pla var...?
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.25 cm		

<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	30 cm		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %		B42-2	
<i>Minuria integerrima</i>	+	<1 %	25 cm		
<i>Mukia maderaspatana</i>	+	<1 %	1 m	B42-5	sprawling
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	45 cm		
<i>Phyllanthus ciccoides</i>	+	<1 %	1.75	B42-3	
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm		
<i>Rhynchosia</i> sp. Burrup (82-1C)	15-20	10-25%	2 m		viscid, scrambling 1
<i>Sesbania cannabina</i>	10-15	10-25%			
<i>Stemodia grossa</i>	+	<1 %	40 cm	B42-16	Stemodia [spike]
<i>Terminalia canescens</i>	5	1-5%	1.25		
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	30 cm	B42-6	
<i>Triodia angusta</i> (Burrup Form)	+	<1 %	40-45 cm		

Burrup Peninsula Site B043

Described by VLL **Date** 23/05/00 50x50m

Location Approximately 200 m up from B42 - very high plateau. N of Conzinc.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 482282mE, 7727717mN 482306mE, 7727655mN 482324mE, 7727702mN 482260mE, 7727672mN

Habitat High plateau with outcropping boulders, rounded to 50 cm, plus outcrops 1.5-2 m. *Themeda* sp. Burrup (B84) grassland.

Soil Red, skeletal.

Rock Type Rounded fine-grain boulders.

Vegetation *Acacia colei* shrubland over *Indigofera monophylla* (Burrup form) low open shrubland over *Themeda* sp. Burrup (B84), (*Triodia epactia*) (Burrup form) tussock/hummock grassland.

Veg Condition Excellent - NO weeds.

Fire Age N/A

Notes Plot not pegged, but AMG at each corner.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	+	<1 %	45 cm		
	<i>Acacia colei</i>	10-15	10-25%	1-2 m	B43-2	
	<i>Acacia elachantha</i>	+	<1 %	1.25 cm	B43-5	
	<i>Brachychiton acuminatus</i>	+	<1 %	1.5 m		on small outcrop
	<i>Bulbostylis barbata</i>	+	<1 %	15 cm	B43-8	
	<i>Cajanus cinereus</i>	+	<1 %	35 cm		
	<i>Cassytha capillaris</i>	+	<1 %	40 cm	B43-6	entwined
	<i>Corchorus walcottii</i>	+	<1 %	35 cm	B43-7	
	<i>Eriachne mucronata</i> (typical form)	+	<1 %	30 cm	B43-1	sterile
	<i>Euphorbia coghlanii</i>	+	<1 %	30 cm	B43-4	
	<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
	<i>Goodenia microptera</i>	+	<1 %	10 cm	B43-10	
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	20 cm		
	<i>Indigofera monophylla</i> (Burrup form)	3-5	1-5%	40 cm		
	<i>Ipomoea costata</i>	+	<1 %	1.25 m		
	<i>Mollugo molluginis</i>	+	<1 %	25 cm		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	30 cm		
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %			grey-green
	<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	35 cm		mauve
	<i>Themeda</i> sp. Burrup (B84)	40-50%	33.3-50%	7 cm	B43-9	Grass, heavily grazed,
	<i>Tinospora smilacina</i>	+	<1 %			
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	15 cm	B43-3	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	20-40 cm		{recorded twice}
	<i>Triodia epactia</i> (Burrup Form)	5	5-10%	30 cm		

Triumfetta clementii + <1 % 20 cm

Burrup Peninsula Site B044

Described by VLL Date 25/05/00

Location N of Conzinc. 150 m up rockpile.

Air Photo Photo on Roll Video N E Photo

Photo Notes

AMG Zone 50 482095mE, 7727876mN

Habitat Steep sloped rockpile, large-medium sized rhyadocite - large-med jointed rocks.

Soil Rock, no soil.

Rock Type Large-medium jointed red-brown fine grain rhyadocite.

Vegetation Terminalia canescens, Brachychiton acuminatus scattered low trees over Acacia coriacea subsp. coriacea scattered shrubs over Triodia epactia (Burrup form) scattered hummock grass.

Veg Condition Excellent.

Fire Age N/A

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %	1.5 m		
	Acacia pyrifolia (green)	+	<1 %	1.25 m	B44-7	glabrous, bright green.
	Alectryon oleifolius	+	<1 %	1.5 m		
	Boerhavia gardneri	+	<1 %	40 cm	B44-6	
	Brachychiton acuminatus	+	<1 %	2-3 m		
	Cajanus cinereus	+	<1 %	40 cm		In soil patch
	Cassia glutinosa	+	<1 %	70 cm		In soil patch
	Cassytha capillaris	+	<1 %	1.5 m	B44-4	entwined in Triepa
	Commelina ensifolia	+	<1 %	10-30 cm		
	Cymbopogon ambiguus	+	<1 %	1 m	B44-10	
	Cynanchum floribundum	+	<1 %	1.5 m		trailing
	Ficus platypoda	+	<1 %	2 m		
	Ficus platypoda var. E	+	<1 %	1.5 m	B44-9	Ficpla var...?
	Flueggea virosa subsp. melanthesoides	+	<1 %	1.5 m		
	Jasminum didymum subsp. lineare	+	<1 %	80 cm		
	Melhania sp. Burrup	+	<1 %	20 cm	B44-8	
	Mukia maderaspatana	+	<1 %	1 m	B44-2	bad condition, climbing
	Paspalidium tabulatum (Burrup Form)	+	<1 %	25 cm	B44-3	
	Plumbago zeylanica	+	<1 %	60 cm	B44-5	
	Rhagodia preissii subsp. obovata	+	<1 %	1 m		
	Scaevola spinescens (narrow form)	+	<1 %	1.25 m	B44-1,11	aff spinescens?
	Solanum horridum	+	<1 %	30 cm		
	Terminalia canescens	+	<1 %	2.5 m		
	Terminalia supranitifolia	+	<1 %	2 m		
	Tinospora smilacina	+	<1 %			vine
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	90 cm		
	Triodia angusta (Burrup Form)	+	<1 %	80 cm		In soil patch
	Triodia epactia (Burrup Form)	+	<1 %	30 cm		
	Triumfetta appendiculata (Burrup Form)	+	<1 %	20-40 cm		In soil patch, {recorded
	Triumfetta clementii	+	<1 %	40 cm		

Burrup Peninsula Site B045

Described by ASW Date 25/05/00

Location S side and edge of Mt Burrup summit, including summit.

Air Photo Photo on Roll Video N E Photo

Photo Notes**AMG Zone** 50 482731mE, 7727354mN 482855mE, 7727367mN**Habitat** Three habitat types: 1] mainly flat rock, level plateau, 2] outcrops in the plateau with very little, if any, soil or plants. There are a few plants, including large shrubs, at edges and outcrops and not in 1], 3] shallow gully, runs E-W on S side of plot**Soil** Skeletal red-brown.**Rock Type** Coarse grained (greenish) mid-grey and white exfoliations.**Vegetation** *Acacia coriacea* subsp. *coriacea*, *Cullen pustulatum* high open shrubland over *Acacia coleii*, *Ipomea costata* shrubland over *Indigofera monophylla* (Burrup form) low open shrubland over *Themeda* sp. Burrup (B84), *Triodia epactia* (Burrup form) tussock/hummock grassland.**Veg Condition** Very good to excellent**Fire Age** <1995 ?**Notes** Gully has *Triodia angusta* (Burrup form) hummock and closed hummock grassland, but only near Peg 1.**Rock Pile Notes** Exfoliating outcrops on plateau and piles of boulder/outcrops. Not a 'proper' rockpile.**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>lepidum</i> (4)	<5	1-5%	20 cm	B45-12	
	<i>Acacia coleii</i>	10	5-10%	1.5		broad(?)
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	5	5-10%	2 m	B45-1	
	<i>Brachychiton acuminatus</i>	2	1-5%	2.5 m		[2]
	<i>Bulbostylis barbata</i>	2	1-5%	5 cm	B45-6,19	sedge, {recorded twice}
	<i>Cajanus cinereus</i>	<5	1-5%	50 cm		
	<i>Cassylia capillaris</i>	+	<1 %	20 cm		usual
	<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)	1	1-5%	10 cm	B45-20	
	<i>Commelina ensifolia</i>	+	<1 %	10 cm		
	<i>Corchorus walcottii</i>	<5	1-5%	40 cm	B45-5	
	<i>Cullen badocanum</i>	<5	1-5%	2 m	B45-2	
	<i>Cymbopogon ambiguus</i>	1	1-5%	50 cm		
	<i>Cynanchum floribundum</i>	1	<1 %	10-20 cm	B45-11	{recorded twice}
	<i>Euphorbia coghlanii</i>	1	1-5%	30 cm	B45-4	
	<i>Euphorbia</i> sp. (site 1163)	1	1-5%	20 cm	B45-18	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	5 cm	B45-9	
	<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	1	1-5%	30 cm	B45-17	
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	>1	<1 %	1.2 m		
	<i>Indigofera monophylla</i> (Burrup form)	5	5-10%	50 cm		
	<i>Ipomea costata</i>	5	5-10%	1.5		mainly [2]
	<i>Paspalidium clementii</i>	+	<1 %	10 cm	B45-8	small grass
	<i>Phyllanthus ciccoides</i>	1	1-5%	1 m		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	10 cm	B45-15	
	<i>Pluchea dentex</i>	2	1-5%	30 cm	B45-10	'smelly shrub' (Comp)
	<i>Pterocaulon sphacelatum</i>	5	5-10%	40 cm		
	<i>Ptilotus fusiformis</i> var. <i>fusiformis</i>	+/-1	<1 %	60 cm	B45-7	dead
	<i>Rhagodia eremaea</i>	+	<1 %	1.5 m		smelly
	<i>Rhynchosia</i> sp. Burrup (82-1C)	1	1-5%	50 cm		small, dull, sticky
	<i>Solanum cleistogamum</i>	+	<1 %		B45-13A	
	<i>Solanum horridum</i>	+	<1 %	20 cm	B45-13	
	<i>Streptoglossa decurrens</i>	1	1-5%	10-30 cm	B45-16	{recorded twice}
	<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	2	1-5%	30 cm		mauve pea Tepsps?
	<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %	50 cm		
	<i>Terminalia supranitifolia</i>	2	1-5%	1.3 m		
	<i>Themeda</i> sp. Burrup (B84)	30	25-33.3%	40 cm	B45-14	
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	20 cm		
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	1	1-5%	20 cm		
	<i>Triodia angusta</i> (Burrup Form)	<5	1-5%	60 cm		only near Peg 1, [3]
	<i>Triodia epactia</i> (Burrup Form)	30	25-33.3%	40 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	1	1-5%	30 cm		felty
	<i>Triumfetta clementii</i>	2	1-5%	40 cm		small

Triumfetta maconochieana 5 5-10% 50 cm B45-3 very small

Burrup Peninsula Site B046

Described by ASW **Date** 25/05/00

Location ESE of Mt. Burrup on top of SE facing slope - rockpile.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 482795mE, 7727307mN 482789mE, 7727239mN

Habitat Steep upper-mid slope (facing SE). Rockpile pockets.

Soil

Rock Type Pale coarse-grained (as B45) angular boulders, mainly over 20 cm diam (to >2M).

Vegetation Ficus platypoda var. D, Ficus virens var. sublanceolata, Brachychiton acuminatus scattered low trees over Flueggea virosa subsp. melanthesoides, Acacia coriacea subsp. coriacea scattered tall shrubs over Ipomoea costata, Rhagodia eremaea open shrubland over Themeda sp. Burrup (B84), Triodia angusta (Burrup form), Triodia epactia (Burrup form) tussock/hummock grassland with Rhynchosia sp. Burrup (82-1C) very open lianes.

Veg Condition Excellent.

Fire Age

- Notes**
- (1) single to few trees and large shrubs
 - (2) patches of grass, mainly Triodia angusta (Burrup form) and Themeda sp. Burrup (B84)
 - (3) Lower slope (approx. 50 m across x 15 m upslope) - mainly Themeda sp. Burrup (B84)

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. dioicum (HD72-14)	+			B46-3	
	Acacia bivenosa	+	<1 %	1.5 m		
	Acacia coleii	+	<1 %	3.5 m		broad (2)
	Acacia coriacea subsp. coriacea	2	1-5%	3 m		
	Alectryon oleifolius	1	1-5%	60 cm		
	Boerhavia gardneri	1	1-5%	60 cm	B46-10	=B2B?
	Brachychiton acuminatus	1	1-5%	3 m		
	Cassia notabilis	1	1-5%	60 cm		=B45
	Cheilanthes aff. tenuifolia (B18)	1	1-5%	10 cm		
	Commelina ensifolia	2	1-5%	50 cm		
	Corchorus walcottii	+	<1 %	50 cm	B46-7	(2)
	Cymbopogon ambiguus	2	1-5%	50 cm		
	Cynanchum floribundum	5	1-5%	10 cm	B46-4	=B45, {recorded twice}
	Cyperus hesperius	2	1-5%	90 cm	B46-2	
	Dicliptera armata	2	1-5%	30 cm		(2) + (3)
	Ehretia saligna var. saligna	+	<1 %	3 m		
	Euphorbia coghlanii	1	1-5%			
	Euphorbia sp.	1	1-5%	10 cm		=B45 last one {can't
	Evolvulus alsinoides var. villosicalyx	+	<1 %	5 cm		(3) =B45
	Ficus platypoda var. D	5	5-10%	3.5 m	B46-5	
	Ficus virens var. sublanceolata	1	1-5%	3.5 m	B46-1	
	Flueggea virosa subsp. melanthesoides	3	1-5%	3 m		
	Ipomoea costata	3	1-5%	2 m		
	Jasminum didymum subsp. lineare	+	<1 %	1 m		
	Melhanian sp. Burrup	+	<1 %	60 cm	B46-9	
	Mukia maderaspatana	+	<1 %	30 cm	B46-8	
	Paspalidium tabulatum (Burrup Form)	2	1-5%	30 cm		
	Phyllanthus ciccoides	1	1-5%	1.5		
	Pittosporum phylliraeoides var. phylliraeoides	+	<1 %	3 m		
	Plumbago zeylanica	3	1-5%	1.5 m		
	Pterocaulon sphacelatum	1	1-5%	60 cm		=B45
	Rhagodia eremaea	2	1-5%	1.5 m		smelly

Rhynchosia sp. Burrup (82-1C)	10	5-10%		B46-6	small, dull, sticky.
Scaevola spinescens (narrow form)	+	<1 %	2.5 m		usual
Solanum horridum	+	<1 %			(3) =B45
Streptoglossa decurrens	+	<1 %	30 cm		=B45 last one
Tephrosia aff. supina (MET 12,357)	+	<1 %			(3) pea, mauve,
Terminalia supranitifolia	3	1-5%	2 m		
Themeda sp. Burrup (B84)	20	10-25%	80 cm		(2)+(3)
Tinospora smilacina	+	<1 %	2 m		
Trachymene aff. oleracea (B61)	1	1-5%	20 cm		
Trichodesma zeylanicum var. zeylanicum	1	1-5%	60 cm		
Triodia angusta (Burrup Form)	10	5-10%	1.2 m		mainly (2)
Triodia epactia (Burrup Form)	<5	1-5%			(2), (3)
Triumfetta appendiculata (Burrup Form)	1	1-5%	50 cm		felty
Triumfetta clementii	+	<1 %	30 cm		(2) small
Vigna lanceolata var. latifolia	1	1-5%			(2) broad,

Burrup Peninsula Site B047

Described by ASW **Date** 25/05/00 100x2->4m

Location Centre of flowline between hill, 119 degrees, and Mt. Burrup. Downstream from Peg 1 100m

Air Photo **Photo** 0,1 **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 482602mE, 7727555mN 482659mE, 7727627mN

Habitat Shallow drainage line completely vegetated by Themeda sp. Burrup (B84) and a few shrubs and other plants.

Soil Not seen.

Rock Type Pebbles

Vegetation Corymbia hamersleyana low open woodland over Acacia inaequilatera, Acacia pyrifolia (slender, white), Acacia coriacea subsp. coriacea, Acacia bivenosa, Acacia colei high open shrubland over Indigofera monophylla (Burrup form) low shrubland over Themeda sp. Burrup (B84), Triodia epactia (Burrup form) closed tussock/hummock grassland.

Veg Condition Very good to excellent.

Fire Age <1995

Notes The plot is 100 m long and varies from 2 m to >4 m, the width of the band of dense Themeda sp. Burrup (B84) and little upward slope.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	1%	1-5%	3.5 m		
	Acacia colei	+	<1 %	2.5 m		'c' broad
	Acacia coriacea subsp. coriacea	1%	1-5%	2 m		
	Acacia inaequilatera	1%	1-5%	3.5 m		
	Acacia orthocarpa	1	1-5%	1 m		
	Acacia pyrifolia (slender, white)	1%	<1 %	3 m		[assumed to be white
	Cajanus cinereus	1	1-5%	90 cm		
	Corchorus walcottii	2	1-5%	70 cm	B47-3	
	Corymbia hamersleyana	5%	1-5%	4 m		(corymbia)
	Cyperus vaginatus	1	1-5%	80 cm		
	Dichrostachys spicata	+	<1 %	90 cm		
	Dicliptera armata	+	<1 %	20 cm		
	Genus sp. Unnamed	+	<1 %	20 cm		operc? Cyn -not sure
	Genus sp. Unnamed	+	<1 %	50 cm		=B45
	Grevillea pyramidalis subsp. pyramidalis	1	1-5%	80 cm		
	Indigofera monophylla (Burrup form)	20	10-25%	80 cm		
	Malvastrum americanum	1	1-5%	60 cm	B47-1	
	Pterocaulon sphacelatum	+	<1 %	20 cm		pineapple
	Rhynchosia sp. Burrup (82-1C)	1	1-5%	40 cm		Dull, sticky

<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.2		
<i>Solanum phlomoides</i>	+	<1 %	70 cm	B47-2	
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	<5	1-5%	50 cm		mauve - Teps?*
<i>Themeda</i> sp. Burrup (B84)	60	50-75%	90 cm	B47-4	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	30-90 cm		Tric zey =
<i>Triodia epactia</i> (Burrup Form)	30	25-33.3%	60 cm	B47-5	
<i>Triumfetta clementii</i>	1%	1-5%	20 cm		small

Burrup Peninsula Site B048

Described by ASW **Date** 26/05/00

Location Approximately 3-400 m E of Burrup Hwy/Dampier-Karratha road junction on terrace above and near pale rockpile.

Air Photo **Photo** 3 **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 472147mE, 7714001mN 472152mE, 7713928mN

Habitat Grassland terrace and boulder field, shallow gully on SW side. Sloping gently to the SW.

Soil Red-brown clayey loam.

Rock Type Mid-dark grey, fine grained, heavy rock rounded to subangular; predominantly 20-50 cm diameter. Dark red-brown surface

Vegetation *Ipomoea costata* open shrubland over *Tephrosia* aff. *supina* (MET 12,357), *Indigofera colutea*, *Triumfetta clementii* low shrubland over *Themeda* sp. Burrup (B84), *Triodia epactia* (Burrup form), **Cenchrus ciliaris* tussock/hummock grassland over *Fimbristylis* aff. *dichotoma* (M75-4) very open sedgeland.

Veg Condition Very good - some **Cenchrus ciliaris*.

Fire Age <1995?

Notes Slope is mainly *Themeda* sp. Burrup (B84), with areas of *Triodia epactia* (Burrup form) especially in the shallow gullies.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	1	1-5%	15 cm	B48-10	
	<i>Acacia orthocarpa</i>	1	1-5%	1 m		
	<i>Acacia pyrifolia</i> (slender, white)	1	1-5%	50 cm		[assumed to be white]
	<i>Aerva javanica</i>	+	<1 %	50 cm		1 plant
	<i>Cenchrus ciliaris</i>	10	5-10%	20 cm		
	<i>Corchorus walcottii</i>	1	1-5%	20 cm	B48-21	Shallow gully
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	1	1-5%	>40 cm		
	<i>Desmodium</i> sp.	2	1-5%	40 cm		
	<i>Dicliptera armata</i>	1	1-5%	20 cm		on borders
	<i>Digitaria brownii</i>	1	1-5%	30 cm	B48-18,25	Shallow gully, Checked
	<i>Digitaria ctenantha</i>	1	1-5%	15 cm	B48-6	
	<i>Enneapogon polyphyllus</i>	+	<1 %	10 cm	B48-16	grass
	<i>Eriachne obtusa</i>	1	1-5%	50 cm	B48-17	grass. Shallow gully
	<i>Erythrina vespertilio</i>	+	<1 %	2 m		in W corner
	<i>Euphorbia coghlanii</i>	2	1-5%	30 cm	B48-7	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	1	1-5%	10 cm	B48-12	on borders
	<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	10	5-10%	5-10 cm	B48-15,5	sedge, {recorded twice}
	<i>Gomphrena cunninghamii</i>	+	<1 %	10 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	1	1-5%	50 cm		
	<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	50 cm		
	<i>Hybanthus aurantiacus</i>	1	1-5%	10 cm		
	<i>Indigofera colutea</i>	1	1-5%	15 cm	B48-2	
	<i>Indigofera linifolia</i>	+	<1 %	20 cm		
	<i>Indigofera monophylla</i> (Burrup form)	1	1-5%	50 cm		Shallow gully
	<i>Ipomoea costata</i>	8	5-10%	180 cm		

<i>Mukia maderaspatana</i>	1	1-5%	60 cm	B48-8,24	
<i>Polycarpaea longiflora</i> (red form)	1	1-5%	50 cm		red
<i>Portulaca pilosa</i>	+	<1 %	15 cm	B48-13	on borders
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	1	1-5%	35 cm		Shallow gully
<i>Ptilotus fusiformis</i> var. <i>fusiformis</i>	+	<1 %	15 cm	B48-23	
<i>Rhynchosia</i> cf. <i>minima</i>	15	10-25%		B48-3	dull
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	80 cm		Shallow gully
<i>Sida rohlenae</i> var. <i>rohlenae</i>	1	1-5%	50 cm	B48-19	Shallow gully
<i>Solanum diversiflorum</i>	1	1-5%	20 cm	B48-20	Shallow gully
<i>Solanum horridum</i>	+	<1 %	30 cm	B48-9	
<i>Streptoglossa decurrens</i>	1	1-5%	20 cm	B48-11	
<i>Tephrosia</i> aff. <i>densa</i> (B17)	1	1-5%	50 cm	B48-22	Shallow gully, broad
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	10	5-10%	20 cm		mauve
<i>Themeda</i> sp. <i>Burrup</i> (B84)	60	50-75%	50 cm	B48-1	Boulders >50%
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	50 cm	B48-14	
<i>Triodia epactia</i> (Burrup Form)	15	10-25%	30 cm		mainly gully
<i>Triumfetta appendiculata</i> (Burrup Form)	1	1-5%	40 cm		felty, white, on borders
<i>Triumfetta clementii</i>	5	5-10%	15 cm		small
<i>Vittadinia virgata</i>	1	1-5%	40 cm	B48-4	

Burrup Peninsula Site B049

Described by ASW **Date** 26/05/00 50+100x40m

Location Approximately 300 m E of Burrup road beginning and W of B48. (see B48)

Air Photo **Photo** 4,5 **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 472090mE, 7714018mN 472093mE, 7713934mN

Habitat Rockpile with a few isolated trees and tussocks among the boulders.

Soil Dark organic. Covers <10% of rockpile and is not conspicuous

Rock Type As for B48 but more angular and subangular, surface is generally pale to medium red-brown instead of dark, and more fractured.

Vegetation *Brachychiton acuminatus* scattered low trees to low open woodland over **Cenchrus ciliaris*, *Themeda* sp. *Burrup* (B84) open tussock grassland with *Rhynchosia* cf. *minima* very open lianes.

Veg Condition Poor-good, due to presence of *Cenchrus* and *Aerva*.

Fire Age

Notes Vegetation is mainly diffuse, not in clearly defined, densely vegetated pockets, with **Cenchrus ciliaris* dominant. Line and length measurements are along the W base of the rockpile. The plot is only the rockpile of pale rocks - edges are outside.

There is much more **Cenchrus ciliaris* than away from the pale rocks or on the dark rockpile. See separate sheet of notes (???)

Rock Pile Notes Linear, low, narrow rockpile of rocks having a relatively pale surface, much paler than the other piles on either side of the line.

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	2 m	
	<i>Aerva javanica</i>	1	1-5%	70 cm	
	<i>Brachychiton acuminatus</i>	5	5-10%	2.5 m	
	<i>Cenchrus ciliaris</i>	20	10-25%	60 cm	
	<i>Cynanchum floribundum</i>	+	<1 %	20 cm	
	<i>Dicliptera armata</i>	1	1-5%	40 cm	
	<i>Ipomoea costata</i>	+	<1 %	3.5 m	
	<i>Mukia maderaspatana</i>	1	1-5%	70 cm	
	<i>Rhagodia eremaea</i>	+	<1 %	1.5 m	
	<i>Rhynchosia</i> cf. <i>minima</i>	10	10-25%	60 cm	
	<i>Themeda</i> sp. <i>Burrup</i> (B84)	<5	1-5%	50cm	
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	30 cm	

Trichodesma zeylanicum var. *zeylanicum* + <1 % 20 cm

Burrup Peninsula Site B050

Described by ASW **Date** 26/05/00

Location Largest visible rockpile face E from Burrup/Dampier-Karratha road junction.

Air Photo **Photo** 7-9 **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 472336mE, 7714016mN 472392mE, 7714029mN

Habitat Large rock pile

Soil Rich brown loam.

Rock Type Mainly subangular, dark red-brown on surface, grey, fine-grained, dense inside.

Vegetation *Brachychiton scuminata*, *Ficus platypoda* var. *D* scattered low trees over *Acacia coriacea* subsp. *coriacea*, *Ipomea costata* tall scattered shrubs over *Rhagodia eremaea*, *Scaevola spinescens* (narrow form) scattered low shrubs over **Cenchrus ciliaris* very open tussock grassland with *Dicliptera armata* scattered to very open annual herbland and *Rhynchosia* cf. *minima* annual lianes.

Veg Condition Good (due to abundance of **Cenchrus ciliaris*).

Fire Age ?

Notes Pockets of vegetation, mostly dense with small trees, large shrubs and grass or *Dicliptera armata*. Vegetation mostly in pockets of usually dense vegetation of small trees, large shrubs and grass or *Dicliptera armata*. There is *Terminalia supranitifolia* on other rockpile pockets nearby. Figures in brackets in species list are % of vegetation. *Acacia orthocarpa* was near this site.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	1	1-5%		B50-4	
	<i>Abutilon lepidum</i>	+	<1 %		B50-c	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	2	1-5%	3 m		
	<i>Achyranthes aspera</i>	+	<1 %	1 m		
	<i>Alectryon oleifolius</i>	+	<1 %	50 cm		
	<i>Amaranthus</i> aff. <i>pallidiflorus</i> (D89)	1	1-5%	30 cm	B50-3	dead
	<i>Boerhavia burbidgeana</i>	+	<1 %	30 cm	B50-6	
	<i>Brachychiton acuminatus</i>	1	1-5%	3 m		
	<i>Cenchrus ciliaris</i>	5	5-10%	90 cm		
	<i>Clerodendrum tomentosum</i>	1	1-5%	2.5 m		
	<i>Cymbopogon ambiguus</i>	1	1-5%	1 m		
	<i>Dicliptera armata</i>	2	1-5%	20 cm		
	<i>Enchylaena tomentosa</i>	1	1-5%	1.5 m	B50-8	
	<i>Ficus opposita</i>	1	1-5%	1.5 m		
	<i>Ficus platypoda</i> var. <i>D</i>	1	1-5%	2 m	B50-1	single(?) leaf
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1	1-5%	1.5 m		
	<i>Ipomoea costata</i>	2	1-5%	3 m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	40 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	30 cm	B50-5	
	<i>Paspalidium tabulatum</i> (Burrup Form)	1	1-5%	40 cm	B50-2	
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	40 cm		
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %	50 cm	B50-7	
	<i>Rhagodia eremaea</i>	1	1-5%	1.5 m		
	<i>Rhynchosia</i> cf. <i>minima</i>	2	1-5%	30 cm		dull
	<i>Scaevola spinescens</i> (narrow form)	1	1-5%			
	<i>Sida rohlenae</i> var. <i>rohlenae</i>	+	<1 %		B50-b	
	<i>Tinospora smilacina</i>	+	<1 %	25 cm		
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	20 cm		
	<i>Trichosanthes cucumerina</i>	+	<1 %	40 cm		

Burrup Peninsula Site B051**Described by** MET **Date** 25/05/00 100xvar m**Location** N of Mt. Burrup.**Air Photo** **Photo** 8 **on Roll** M1 **Video** N **E Photo****Photo Notes****AMG Zone** 50 483811mE, 7727638mN 483896mE, 7727677mN**Habitat** Steep slopes on E coast of Peninsula.**Soil** Gravelly, pebbly, clayey fine sand amongst rocks.**Rock Type** Coarse-grained intermediate, ca. 20% feldspar, rest dark minerals. Weathers with uneven surface.**Vegetation** Indigofera monophylla (Burrup form) low open shrubland with Triodia angusta (Burrup form), Triodia wiseana (Burrup form), Themeda sp. Burrup (B84) mid-dense grassland and Cassytha capillaris low vines.**Veg Condition** Excellent.**Fire Age** >10 yrs.**Notes** A transect of variable width was recorded of variable width to avoid rock outcrops.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia orthocarpa	+	<1 %	55 cm	B51-6	
	Alectryon oleifolius	+	<1 %	60 cm		
	Boerhavia gardneri	+	<1 %	10 cm		=B34
	Bonamia media var. villosa	+	<1 %	3-25 cm	B51-10	
	Cajanus cinereus	+	<1 %	15 cm	B51-11	
	Cassytha capillaris	<10	5-10%	20-50 cm	B51-1	
	Cheilanthes aff. tenuifolia (B18)	+	<1 %			
	Commelina ensifolia	+	<1 %	25 cm	=B31	
	Corchorus walcottii	+	<1 %	30 cm	B51-4	
	Eriachne tenuiculmis	+	<1 %	40 cm	B51-15	
	Euphorbia sp. (site 1163)	+	<1 %	20 cm	B51-12	
	Ficus opposita var. aculeata	+	<1 %	1.4 m	B51-7	
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	850 cm		
	Indigofera monophylla (Burrup form)	<5	1-5%	30-60 cm		
	Melhania sp. Burrup	+	<1 %	30 cm	B51-13	
	Mukia maderaspatana	+	<1 %	10 cm	B51-9	
	Pentalepis trichodesmoides	+	<1 %	20-50 cm		
	Pterocaulon sphacelatum	+	<1 %	45 cm		=B36
	Rhodanthe margarethae	+	<1 %			
	Rhynchosia sp. Burrup (82-1C)	+	<1 %	20 cm	B51-14	green, sticky
	Solanum phlomoides	+	<1 %	25-40 cm	B51-16	
	Streptoglossa decurrens	+	<1 %	20 cm	B51-5	
	Themeda sp. Burrup (B84)	<30	25-33.3%	35-50 cm		=B31
	Tinospora smilacina	+	<1 %	1 cm		
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	30-50 cm		
	Triodia angusta (Burrup Form)	>25	25-33.3%	60 cm		
	Triodia epactia (Burrup Form)	<=1	<1 %	30-60 cm	B51-3	
	Triodia wiseana (Burrup Form)	+	<1 %	45 cm		
	Triumfetta appendiculata (Burrup Form)	+	<1 %	35 cm		
	Triumfetta clementii	+	<1 %	15 cm		
	Triumfetta maconochieana	+	<1 %	50 cm	B51-2	

Burrup Peninsula Site B052**Described by** MET **Date** 25/05/00**Location** N of Mt. Burrup.**Air Photo** **Photo** 7 **on Roll** M1 **Video** N **E Photo**

Photo Notes**AMG Zone** 50 483828mE, 7727740mN**Habitat** Boulder rockpile.**Soil** Volcanic.**Rock Type****Vegetation** Brachychiton acuminatus, Acacia coriacea subsp. coriacea, Terminalia supranitifolia scattered tall shrubs over Scaevola spinescens (narrow form), Rhagodia eremaea scattered shrubs over Melhania sp. Burrup, Alectryon oleifolius scattered low shrubs over Triodia angusta (Burrup form), Themeda sp. Burrup (B84) scattered hummock/tussock grasses with Rhynchosia sp. Burrup (82-1C) low lianes**Veg Condition****Fire Age****Notes** Recorded from peg around north side to area of Triodia angusta (Burrup form) that runs up the slope to the crest.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %	1.4 m		
	Alectryon oleifolius	+	<1 %	70 cm		
	Boerhavia gardneri	+	<1 %	15 cm	=B34+B31	
	Brachychiton acuminatus	+	<1 %	2 m		
	Capparis spinosa var. nummularia	+	<1 %	40 cm		
	Cassytha capillaris	+	<1 %	20 cm	=B51	
	Cymbopogon ambiguus	+	<1 %	60 cm	=B31	
	Cynanchum floribundum	+	<1 %	30 cm		
	Dichrostachys spicata	+	<1 %	1.1 m		
	Dicliptera armata	+/-1	<1 %	10-25 cm		
	Ficus opposita var. aculeata	+	<1 %	1.5 m	=B51	
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	1.5 m		
	Indigofera monophylla (Burrup form)	+	<1 %	50 cm		
	Jasminum didymum subsp. lineare	+	<1 %	40 cm		
	Melhania sp. Burrup	+	<1 %	10-40 cm	=B51	
	Mukia maderaspatana	+	<1 %	20 cm		coll., no number
	Nicotiana benthamiana	+	<1 %	5 cm		+ dead stem
	Paspalidium tabulatum (Burrup Form)	+	<1 %	30 cm		
	Pentalepis trichodesmoides	+	<1 %	50 cm		
	Phyllanthus ciccoides	+	<1 %	60 cm		wind pruned
	Pterocaulon sphacelatum	+	<1 %	50 cm	=B51	
	Rhagodia eremaea	+	<1 %	1.5 m		
	Rhodanthe margarethae	+	<1 %	30 cm		
	Rhynchosia sp. Burrup (82-1C)	<2	1-5%	20-30 cm	=B51	green, sticky
	Scaevola spinescens (narrow form)	+	<1 %	1.5 m	=B31	
	Solanum horridum	+	<1 %		B52-	
	Terminalia supranitifolia	+	<1 %	1.3 m		
	Themeda sp. Burrup (B84)	1	1-5%	30-50 cm	=B51	
	Tribulus macrocarpus	+	<1 %	55 cm		
	Triodia angusta (Burrup Form)	+	<1 %	30-50 cm		
	Triumfetta appendiculata (Burrup Form)	+	<1 %	20 cm		

Burrup Peninsula Site B053**Described by** MET **Date** 26/05/00**Location** E of Rifle Range, in valley.**Air Photo** **Photo** 6 **on Roll** M1 **Video** N **E Photo****Photo Notes****AMG Zone** 50 474531mE, 7714426mN 474594mE, 7714390mN 474578mE, 7714437mN 474547mE, 7714381mN

- Habitat** Gentle slope in floor of valley between ridges, appears to be a low rise of colluvium.
- Soil** Gravelly, pebbly fine sand with some silty/clayey material between cobbles.
- Rock Type** About 40% surface cover of pebbles to small cobbles. Cobbles are volcanic rock.
- Vegetation** *Acacia inaequilatera*, *Hakea chordophylla*, *Grevillea pyramidalis* subsp. *pyramidalis* open shrubland to scattered shrubs over *Corchorus walcottii* scattered low shrubs over *Triodia epactia* (Burrup form), **Cenchrus ciliaris*, *Fimbristylis* aff. *dichotoma* (M75-4) closed hummock/tussock grassland and low open sedgeland with *Rhynchosia* cf. *minima* open lianes.
- Veg Condition** Very good - excellent
- Fire Age** >5-10 yrs.
- Notes** *Grevillea pyramidalis* subsp. *pyramidalis* quite low, suggesting fire not greater than 5 years ago.
**B53-26 *Abutilon* erect shrub with one main stem and long spreading branches. Leaves mid-green, not sticky. Stem light green, not sticky.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	0.5-1.4 m	B53-4	Perennial?
	<i>Abutilon oxycarpum</i> subsp. <i>prostratum</i>	+	<1 %	15cm	B53-7	prostrate
	<i>Abutilon</i> sp. <i>Fortescue</i> (M. Maier 28A-4)	+		1.1m	B53-26	See Note Above**
	<i>Acacia bivenosa</i>	<1	<1 %	(0.5)1-2		
	<i>Acacia inaequilatera</i>	1-2	1-5%	1-2 m	B53-2	
	<i>Alysicarpus muelleri</i>	+	<1 %	45 cm	B53-18	Pea
	<i>Boerhavia coccinea</i> (form B)	+	<1 %	10 cm	B53-16	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	10-50 cm		
	<i>Cassia glutinosa</i>	+	<1 %	1.4 m		
	<i>Cenchrus ciliaris</i>	<1	<1 %	8-90 cm		grazed
	<i>Corchorus walcottii</i>	+	<1 %	40-60 cm	B53-3	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	0.5 m		
	<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	35-55 cm		
	<i>Desmodium filiforme</i>	+	<1 %	5 cm	B53-19	
	<i>Dichrostachys spicata</i>	+	<1 %	1.3 m		
	<i>Digitaria ctenantha</i>	+	<1 %	20 cm		
	<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	+	<1 %	10 cm	B53-27	
	<i>Enchylaena tomentosa</i>	+	<1 %	90 cm		
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	55 cm	B53-12	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10-20 cm	B53-10	
	<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	<5	1-5%	6 cm	B53-8	
	<i>Goodenia microptera</i>	+	<1 %	25 cm	B53-21	
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	0.4-1.3 m		
	<i>Hakea chordophylla</i>	+	<1 %	1.6 m	B53-24	
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	40 cm	B53-5	
	<i>Indigofera linifolia</i>	+	<1 %	15 cm		
	<i>Indigofera linnaei</i>	+	<1 %	10 cm	B53-9	
	<i>Indigofera trita</i>	+	<1 %	15-25 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	60 cm	B53-20	
	<i>Paspalidium clementii</i>	+	<1 %	7 cm	B53-17	
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	35 cm		
	<i>Phyllanthus lacunellus</i>	+	<1 %	12 cm	B53-15	
	<i>Portulaca oleracea</i>	+	<1 %	5 cm		dead
	<i>Pterocaulon sphacelatum</i>	+	<1 %	50 cm	B53-14	
	<i>Rhagodia eremaea</i>	+	<1 %	1.4		
	<i>Rhynchosia</i> cf. <i>minima</i>	>15	10-25%	30-60(90)	B53-6	grey, not sticky
	<i>Salsola tragus</i>	+	<1 %	90 cm		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.3 cccm	B53-22	
	<i>Solanum cleistogamum</i>	+	<1 %	25 cm	B53-11	
	<i>Solanum diversiflorum</i>	+	<1 %	15 cm		
	<i>Streptoglossa decurrens</i>	+	<1 %	15-75 cm	B53-13	regen from base
	<i>Swainsona formosa</i>	+	<1 %	45 cm		

Tephrosia aff. supina (MET 12,357)	+	<1 %	15 cm	B53-23	
Tephrosia leptoclada	+	<1 %	15 cm	B53-28	Pea
Tribulus occidentalis	+	<1 %	5 cm	B53-25	
Trichodesma zeylanicum var. zeylanicum	+	<1 %	60 cm		
Triodia epactia (Burrup Form)	>=75	>75%	45-60 cm	B53-1	
Triumfetta appendiculata (Burrup Form)	+	<1 %	40 cm		
Triumfetta clementii	+	<1 %	10-30 cm		dead

Burrup Peninsula Site B054

Described by VLL **Date** 26/05/00 50 x 50 m

Location 150 m N of last rifle bunker, approx. 1.5 km SE of Telecom tower on hill.

Air Photo **Photo** 7 **on Roll** F1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 474191mE, 7714414mN 474156mE, 7714349mN

Habitat Very gentle lower hill slope with stones and areas of red sandy clay with with less stony mantle - slopes towards S.

Soil Red sandy clay, large pockets of soil beneath stony areas, especially at lower end of slope.

Rock Type Small, fine-rained red-brown stones (15-20 cm) and rocks to 50 cm diameter.

Vegetation Corymbia hamersleyana, Ehretia saligna var. saligna low open woodland over Hakea lorea ssp. lorea, Acacia bivenosa, Acacia elachantha open shrubland over Triodia epactia (Burrup form) hummock grassland.

Veg Condition Very good, some *Cenchrus ciliaris and kapok (*Aerva javanica?).

Fire Age N/A

Notes Diverse vegetation supported by the more abundant soils.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	30 cm	B54-10	
	Abutilon sp. Fortescue (M. Maier 28A-4)	+	<1 %	25 cm	B54-6	Beneath Corham
	Acacia bivenosa	<5%	<1 %	1-5 cm		
	Acacia coriacea subsp. coriacea	+	<1 %	60 cm	B54-28	
	Acacia elachantha	<2%	1-5%	1.5 m	B54-13	
	Acacia pyrifolia (slender, white)	+	<1 %	25 cm		[assumed to be white]
	Aerva javanica	+	<1 %	40 cm		
	Aristida holathera var. holathera	+	<1 %	50 cm	B54-25	
	Boerhavia coccinea (form B)	+	<1 %	35 cm	B54-27	
	Bonamia media var. villosa	+	<1 %	3 m	B54-12	
	Bulbostylis barbata	+	<1 %	15 cm		
	Cassia oligophylla	+	<1 %	1 m		
	Cenchrus ciliaris	+	<1 %	30 cm		Beneath Corham
	Corchorus walcottii	+	<1 %	30 cm	B54-24	
	Corymbia hamersleyana	<5%	1-5%	1.75 m		
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	25 cm	B54-11	tri/med
	Dactyloctenium radulans	+	<1 %	3 cm	B54-21	
	Desmodium filiforme	+	<1 %	30 cm	B54-14	prostrate
	Ehretia saligna var. saligna	<5%	1-5%	1.75 m		
	Enchylaena tomentosa	+	<1 %	50 cm		Beneath Corham
	Eragrostis aff. eriopoda	+	<1 %	40 cm	B54-17	
	Eriachne obtusa	+	<1 %	50 cm	B54-18	leafless, multi-stemmed
	Euphorbia coghlanii	+	<1 %	5 cm	B54-22	
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	35 cm	B54-5	eup tan/boo? Beneath
	Evolvulus alsinoides var. villosicalyx	+	<1 %	6 cm		
	Gomphrena cunninghamii	+	<1 %	20 cm		
	Goodenia microptera	+	<1 %	40 cm	B54-1	
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	1.5 m		

<i>Hakea lorea</i> ssp. <i>lorea</i>	5	5-10%	1.5 m		
<i>Heliotropium inexplicitum</i>	+	<1 %	5 cm	B54-20	
<i>Hibiscus</i> aff. <i>coatesii</i> (MET 15 012)	+	<1 %	45 cm	B54-29	
<i>Hibiscus</i> aff. <i>platychlams</i> (M39-14)	+	<1 %	30 cm	B54-2	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	30 cm	B54-30	
<i>Hybanthus aurantiacus</i>	+	<1 %	35 cm		
<i>Indigofera colutea</i>	+	<1 %	10 cm		
<i>Indigofera linifolia</i>	+	<1 %	25 cm		{recorded twice}
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	40 cm		
<i>Indigofera trita</i>	+	<1 %	30 cm	B54-4	semi-prostrate
<i>Ipomoea costata</i>	+	<1 %	50 cm		
<i>Melhania</i> sp. <i>Fortescue</i> (M33-22)	+	<1 %	20 cm	B54-9	
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		Beneath Corham
<i>Portulaca pilosa</i>	+	<1 %	20 cm	B54-8	Beneath Corham
<i>Pterocaulon sphacelatum</i>	+	<1 %	45 cm		
<i>Rhagodia eremaea</i>	+	<1 %	40 cm	B54-23	
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	40 cm		Beneath Corham
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	70 cm		grey-green, scrambling
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	60 cm	B54-7	Beneath Corham
<i>Setaria verticillata</i>	+	<1 %	40 cm	B54-15	??
<i>Solanum horridum</i>	+	<1 %	25 cm		
<i>Streptoglossa decurrens</i>	+	<1 %	45 cm		
<i>Swainsona formosa</i>	+	<1 %	50 cm		
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	+	<1 %	5 cm	B54-19	
<i>Tephrosia leptoclada</i>	+	<1 %	15-30 cm	B54-26	Juvenile herb-legume
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	5 cm	B54-16	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	80 cm		
<i>Triodia epactia</i> (Burrup Form)	40%	33.3-50%	40 cm		
<i>Triumfetta clementii</i>	+	<1 %	25 cm		
<i>Zornia albiflora</i>	+	<1 %	25 cm	B54-3	

Burrup Peninsula Site B055

Described by VLL **Date** 26/05/00 50x50m

Location Steep granite slope, SE side of Telecom lookout hill. Approx. 400 m N of end bunker of pistol range.

Air Photo **Photo** 8 **on Roll** F1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 473908mE, 7714483mN 473939mE, 7714514mN

Habitat Steep granite boulder hillslope with outcrop. Granite outcrops/slabs are large and flat/rounded. Pockets of soil beneath granite slabs, outcrops and rocks.

Soil Pockets of sandy soil beneath slabs and rocks.

Rock Type Granite - coarse-grained pale pink and grey.

Vegetation *Terminalia canescens*, *Corymbia hamersleyana*, *Brachychiton acuminatus* (*Ehretia saligna* var. *saligna*) low open woodland over *Rhagodia preissii* subsp. *obovata*, *Ptilotus obovatus* var. *obovatus*, *Scaevola spinescens* (narrow form) open shrubland over *Themeda* sp. Burrup (B84), *Triodia epactia* (Burrup form) open tussock/hummock grassland.

Veg Condition Excellent (occasional **Cenchrus ciliaris* among rocks, rarely *Achyranthes aspera*).

Fire Age N/A

Notes S facing - less exposed and more shaded - more species (*Chelianthes* etc.).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	35 cm	B55-19	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1-1.75 m	B55-9,16	Thin phyllodes,
	<i>Acacia elachantha</i>	+	<1 %	1.75 m	B55-18	Very, very smooth light
	<i>Acacia tenuissima</i>	+	<1 %	1 m	B55-1	

<i>Achyranthes aspera</i>	+	<1 %	40 cm		
<i>Alectryon oleifolius</i>	+	<1 %	1 m		
<i>Brachychiton acuminatus</i>	3-5	1-5%	1.5-2 m		
<i>Cenchrus ciliaris</i>	+	<1 %	25 cm		
<i>Cheilanthes aff. tenuifolia</i> (B18)	+	<1 %	10 cm	B55-4	
<i>Cleome viscosa</i>	+	<1 %	40 cm		
<i>Clerodendrum tomentosum</i>	+	<1 %	20 cm	B55-15	
<i>Corchorus walcottii</i>	+	<1 %	40 cm	B55-2	
<i>Corymbia hamersleyana</i>	5-10%	5-10%	2.5 m		
<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	35 cm	B55-11	
<i>Cymbopogon ambiguus</i>	+	<1 %	1 m	B55-6	
<i>Cyperus hesperius</i>	+	<1 %	40 cm	B55-13	
<i>Dichrostachys spicata</i>	+	<1 %	1.25		
<i>Dicliptera armata</i>	+	<1 %	35 cm		
<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2 m		
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	+	<1 %	50 cm	B55-14A	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %		B55-14B	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2 m		
<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %		B55-8	
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	80 cm		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	80 cm		
<i>Malvastrum americanum</i>	+	<1 %	30 cm		
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	40 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	30 cm		
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	25 cm		
<i>Portulaca pilosa</i>	+	<1 %	5-10 cm	B55-5,12	{recorded twice}
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	<2%	1-5%	1 m	B55-3	
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	<5%	1-5%	1 m		
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	1.25 m		viscid, sprawling
<i>Scaevola spinescens</i> (narrow form)	<2%	1-5%	1 m	B55-7	Sca aff spi
<i>Solanum diversiflorum</i>	+	<1 %	40 cm		
<i>Terminalia canescens</i>	10%	5-10%			
<i>Themeda</i> sp. Burrup (B84)	15-20	10-25%	40-45 cm		
<i>Tinospora smilacina</i>	+	<1 %			vine
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	20 cm	B55-10	
<i>Triodia epactia</i> (Burrup Form)	10-15	10-25%	35 cm		
<i>Triumfetta clementii</i>	+	<1 %	30 cm		
<i>Triumfetta maconochieana</i>	+	<1 %	25 cm	B55-17	

Burrup Peninsula Site B056

Described by VLL **Date** 26/05/00 **150x2-6 m**

Location Gully in S facing hillslope ESE of Telecom tower lookout and approx. 700 m N of end bunker of rifle range.

Air Photo **Photo** 11 **on Roll** F1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 474039mE, 7714614mN 474005mE, 7714686mN

Habitat Rocky (granite) gully down beneath large granite rocks and boulders, S facing. Gully 2-6 m wide.

Soil Colluvial grey-brown, beneath rocks.

Rock Type Granite walls - large.

Vegetation *Terminalia canescens* low open forest over *Indigofera monophylla* (Burrup form) shrubland to open heath over *Themeda* sp. Burrup (B84) tussock grassland with *Dicliptera armata* very open annual herbland.

Veg Condition Excellent.

Fire Age N/A

Notes Transect 150 m up the gully (S - N) and 2-6 m wide staying within flow line.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	40 cm	B56-6	
	<i>Abutilon</i> sp. Fortescue (M. Maier 28A-4)	+	<1 %	30 cm	B56-2	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	2 m	B56-8	
	<i>Acacia elachantha</i>	+	<1 %	1.75 m		?See B55-18 (= glabrous, lime green)
	<i>Acacia pyrifolia</i> (green)	+	<1 %			
	<i>Alectryon oleifolius</i>	+	<1 %	1.5		
	<i>Brachychiton acuminatus</i>	+	<1 %	1.75-2.5		
	<i>Cassia glutinosa</i>	+	<1 %	1.25 m		
	<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)	+	<1 %	5 cm		as for B55-4
	<i>Cleome viscosa</i>	+	<1 %	45 cm		
	<i>Clerodendrum tomentosum</i>	+	<1 %	2 m		
	<i>Corchorus walcottii</i>	+	<1 %	30 cm	B56-7	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	40 cm	B56-11	
	<i>Cymbopogon ambiguus</i>	+	<1 %			as for B55-6
	<i>Dichrostachys spicata</i>	+	<1 %	1 m		
	<i>Dicliptera armata</i>	5-10%	5-10%	30-40 cm		
	<i>Ehretia</i> ?(B23-22)	+	<1 %	40 cm	B56-12	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	35 cm	B56-9	
	<i>Ficus platypoda</i>	+	<1 %	50 cm		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2 m		
	<i>Hybanthus aurantiacus</i>	+	<1 %	35 cm		
	<i>Indigofera monophylla</i> (Burrup form)	10-15	10-25%	1.25-1.5	B56-4	
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %			
	<i>Malvastrum americanum</i>	+	<1 %	40 cm		
	<i>Paspalidium clementii</i>	+	<1 %	10 cm		
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %	1.25 m		
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %			as for B55-3
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %			viscid, scrambling
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.25 m	B56-13	Sca aff spi
	<i>Sida rohlenae</i> var. <i>rohlenae</i>	+	<1 %	30 cm	B56-10	
	<i>Tephrosia</i> aff. <i>densa</i> (B17)	+	<1 %	50 cm	B56-1	
	<i>Terminalia canescens</i>	30-35	33.3-50%	2-5 m		
	<i>Themeda</i> sp. Burrup (B84)	30-35%	33.3-50%	40 cm		
	<i>Tinospora smilacina</i>	+	<1 %			vine
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	40 cm	B56-5	
	<i>Triodia epactia</i> (Burrup Form)	+	<1 %	40 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	25-40 cm	B56-3	{recorded twice}
	<i>Triumfetta clementii</i>	+	<1 %	40 cm		{recorded twice}

Burrup Peninsula Site B057

Described by VLL Date 26/05/00 35x50x20x?

Location Triodia mid-level slope - "terrace" - running N-S 30 m E of WEL quarry access track, and 'Chinaman' Gully.

Air Photo Photo 12 on Roll F1 Video N E Photo

Photo Notes

AMG Zone 50 475025mE, 7720416mN 475021mE, 7720370mN

Habitat Sloped terrace between rocky ridges running N-S parallel to WEL access track. Western face, exposed, upper- to mid-level terrace with large stones and boulders.

Soil Red-brown sandy clay.

Rock Type Light red-brown-grey boulders and outcrops, mostly fine rhyadocite but occasionally coarse-grained granite.

Vegetation *Acacia elachantha*, *Grevillea pyramidalis* subsp. *pyramidalis* scattered shrubs over *Indigofera*

monophylla (Burrup form) low open heath over *Triodia epactia* (Burrup form) closed hummock grassland with *Rhynchosia* sp. Burrup (82-1C) open lianes.

Veg Condition Excellent, no weeds.

Fire Age N/A

Notes Transect shape dictated by width of terrace, and a gully on either end. No rockpile vegetation included.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	25 cm	B57-8	Mixed with <i>Abutilon</i>
	<i>Abutilon lepidum</i>	+	<1 %	25 cm	B57-8a	
	<i>Acacia bivenosa</i>	+	<1 %	1 m		
	<i>Acacia colei</i>	+	<1 %	2 m	B57-5	
	<i>Acacia elachantha</i>	+	<1 %	1.75 m	B57-4	?copper stems,
	<i>Aerva javanica</i>	+	<1 %	50 cm		
	<i>Boerhavia gardneri</i>	+	<1 %	40 cm	B57-1	prostrate
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	3 cm	B57-10	
	<i>Cymbopogon ambiguus</i>	+	<1 %	80 cm	B57-3	
	<i>Cynanchum floribundum</i>	+	<1 %	1 m	B57-11	vine
	<i>Euphorbia</i> sp. (site 1163)	+	<1 %	25 cm	B57-9	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	15-30 cm	B57-6	
	<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1-1.25 m		
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	35 cm	B57-12	
	<i>Indigofera monophylla</i> (Burrup form)	30-35%	33.3-50%	40-50 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	80 cm	B57-7	scrambling
	<i>Rhynchosia</i> sp. Burrup (82-1C)	20	10-25%	1 m		viscid, scrambling
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	50 cm		
	<i>Triodia epactia</i> (Burrup Form)	70%	50-75%	30-40 cm	B57-2	
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	45 cm		
	<i>Triumfetta clementii</i>	+	<1 %	25 cm		

Burrup Peninsula Site B058

Described by VLL **Date** 26/05/00 **200x2-3 m**

Location 200 m in from WEL quarry access track along *Terminalia canescens* gully (opposite to 'Chinaman's' Gully on W side of track.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 475071mE, 7720174mN 475103mE, 7720108mN

Habitat Drainage line in gully running E-W between two rockpile ridges. Drainage line is only 2-3 m wide with "banks" within the gully each side 2-5 m sampled. *Only drainage flow line, water in gully.

Soil Alluvial dark grey-brown.

Rock Type Cobbles, grey to 25 cm and larger red-grey fine grained rhyadocite rocks to 80 cm diameter.

Vegetation *Terminalia canescens* low open forest over *Triodia angusta* (Burrup form), *Triodia epactia* (Burrup form), *Cyperus bifax*, *Cyperus vaginalis* open hummock grassland/sedgeland with *Stemodia grossa* very open herbland and *Rhynchosia* cf. *minima* very open lianes.

Veg Condition Excellent, no weeds.

Fire Age N/A

Notes Transect is along drainage flow line approx. 2-3 m only x ~200 m

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %		B58-9	
	<i>Abutilon lepidum</i>	+	<1 %			

<i>Acacia bivenosa</i>	+	<1 %	1.5 m		
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.25 m		Broad phyllodes
<i>Ammannia baccifera</i>	+	<1 %	10 cm		
<i>Brachychiton acuminatus</i>	+	<1 %	2 m		
<i>Canavalia rosea</i>	+	<1 %	1.5 m	B58-12	Creepers
<i>Cymbopogon ambiguus</i>	+	<1 %	1.1 m		
<i>Cynanchum floribundum</i>	+	<1 %	1 m		Climbing vine
<i>Cyperus bifax</i>	<5%	1-5%	70 cm	B58-4	
<i>Cyperus vaginatus</i>	<5%	1-5%	1 m	B58-5	
<i>Dentella asperata</i>	+	<1 %	30 cm	B58-2	Spreading
<i>Dicliptera armata</i>	+	<1 %	30 cm		
<i>Eragrostis tenellula</i>	+	<1 %	10-15 cm	B58-3,8	{recorded twice}
<i>Eriachne tenuiculmis</i>	+	<1 %	40 cm	B58-10	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.5 m		
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1.25 m		
<i>Indigofera trita</i>	+	<1 %	25 cm	B58-11	
<i>Mukia maderaspatana</i>	+	<1 %			Scrambling
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm		
<i>Pterocaulon sphaeranthoides</i>	+	<1 %			
<i>Rhynchosia</i> cf. <i>minima</i>	<5%	1-5%	1 m		[presumed to be
<i>Stemodia grossa</i>	5-10%	5-10%		B58-7	
<i>Stylidium fluminense</i>	+	<1 %	15 cm	B58-1	
<i>Terminalia canescens</i>	40%	33.3-50%	2-5 m		
<i>Tinospora smilacina</i>	+	<1 %			Vine
<i>Triodia angusta</i> (Burrup Form)	5-10%	5-10%	45 cm		
<i>Triodia epactia</i> (Burrup Form)	<5%	1-5%	40 cm	B58-6	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	45 cm		

Burrup Peninsula Site B059

Described by VLL **Date** 26/05/00

Location Rockpile above and to the south of B58 gully, parallels gully.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 475092mE, 7720101mN 475043mE, 7720167mN

Habitat High rockpile ridge running E-W along gully. North facing rockpile.

Soil None

Rock Type Med-jointed fine rain red rhyadocite rocks.

Vegetation *Brachychiton acuminatus* scattered low trees over *Terminalia supranitifolia*, (*Flueggea virosa* subsp. *melanthesoides*) high open shrubland over *Triodia epactia* (Burrup form), *Cymbopogon ambiguus* very open hummock/tussock grassland with *Dicliptera armata* very open herbland and *Rhynchosia* sp. Burrup (82-1C) very open lianes.

Veg Condition Excellent

Fire Age N/A

Notes

Rock Pile Notes Rock 80 cm - 1.25-1.5 m diameter, square block shapes not boulders or vertical thrusting rocks.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	40 cm		See B58-9
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.5 m		Broad phyllodes
	<i>Brachychiton acuminatus</i>	1-2%	1-5%	2 m		
	<i>Canavalia rosea</i>	+	<1 %			Vine/creeper, see
	<i>Cleome viscosa</i>	+	<1 %	40 cm		Small soil pocket
	<i>Cymbopogon ambiguus</i>	+/-1%	1-5%	1.10 m	B59-2	
	<i>Dicliptera armata</i>	1-2%	1-5%	35-40 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	1.75 m		

<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	1.25 m	B59-3	Variety
<i>Ficus platypoda</i>	+	<1 %			
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.5 m		
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	45 cm		Small soil pocket
<i>Ipomoea costata</i>	+	<1 %	1 m		Small soil pocket
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %			Creeping
<i>Mukia maderaspatana</i>	+	<1 %			
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	40 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	30 cm		Small soil pocket
<i>Plumbago zeylanica</i>	+	<1 %	80 cm		
<i>Rhynchosia</i> sp. Burrup (82-1C)	1-2%	1-5%	80 cm		Viscid scrambling
<i>Terminalia canescens</i>	+	<1 %	4.5 m		
<i>Terminalia supranitifolia</i>	<1-2%	1-5%	1.25 m		
<i>Tinospora smilacina</i>	+	<1 %			Vine
<i>Trichosanthes cucumerina</i>	+	<1 %			Vine
<i>Triodia epactia</i> (Burrup Form)	<2%	1-5%	30 cm	B59-1	Small soil pocket
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	45 cm	B59-4	

Burrup Peninsula Site B060

Described by MET **Date** 26/05/00

Location East of Rifle Range.

Air Photo **Photo** 5 **on Roll** M1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 474539mE, 7714567mN 474599mE, 7714599mN

Habitat Small creekline cutting across colluvium bed in floor of an open valley.

Soil Dark brown silty fine sand between cobbles. Paler when dry. Bed (1-3 m).

Rock Type Cobbles volcanic rock.

Vegetation *Eucalyptus victrix* low open woodland to low woodland over *Acacia coriacea* subsp. *coriacea* scattered tall shrubs over *Dichrostachys spicata*, *Scaevola spinescens* (narrow form), *Ipomoea costata*, *Rhagodia eremaea* scattered shrubs over *Corchorus walcottii*, *Indigofera monophylla* (Burrup form), *Triumfetta appendiculata* (Burrup form) scattered low shrubs over *Triodia angusta* (Burrup form), **Cenchrus ciliaris* open hummock/tussock grassland to hummock grassland with *Dicliptera armata* annual very open low herbland.

Veg Condition Very good to excellent. Buffel stops it being excellent.

Fire Age > 5, ?>10 years

Notes Recorded the bed (often c/m across) and banks but not the upper edge of the banks where just *Triodia* or where small patches of floodplain occur. Denser patches of *Triodia angusta* have cover of > 50%.

Rock Pile Notes Just downslope rom the plot (<15 m) there is a small cliff on the side of the creek. There are a *Brachychiton acuminatus* and *Ficus opposita* there.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	30 cm		
	<i>Abutilon lepidum</i>	+	<1 %	30 cm	B60-4	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	2-3.8 m	B60-1	
	<i>Acacia pyrifolia</i> (green)	+	<1 %	1.6 m	B60-8	Phyllodes green, slender
	<i>Alectryon oleifolius</i>	+	<1 %	0.5-1.0 m		
	<i>Ammannia baccifera</i>	+	<1 %	5 cm	B60-9	?
	<i>Cassytha capillaris</i>	+	<1 %	40 cm	B60-16	
	<i>Cenchrus ciliaris</i>	+/- 2%	1-5%	15-80 cm		
	<i>Chrysopogon fallax</i>	+	<1 %	75 cm	B60-13	
	<i>Corchorus walcottii</i>	+	<1 %	35 cm	B60-12	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	80 cm		
	<i>Cyperus bifax</i>	<= 1%	1-5%	30-70 cm	B60-3	
	<i>Cyperus squarrosus</i>	+	<1 %	12 cm	B60-7	

<i>Cyperus vaginatus</i>	+	<1 %	20-50 cm		
<i>Dichrostachys spicata</i>	< 1%	<1 %	1-2.6 m		Grazed
<i>Dicliptera armata</i>	< 5%	1-5%	15-50 cm		
<i>Digitaria ctenantha</i>	+	<1 %	30 cm		
<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	0.9-1.8 m		
<i>Enchylaena tomentosa</i>	+	<1 %	40 + cm		
<i>Eriachne tenuiculmis</i>	+	<1 %	35 cm	B60-2	
<i>Eucalyptus victrix</i>	<= 10%	5-10%	4-9 + m		
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1.5-2.5 m		
<i>Indigofera linifolia</i>	+	<1 %	40 cm		
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	40 cm		
<i>Ipomoea costata</i>	+	<1 %	2 m		
<i>Malvastrum americanum</i>	+	<1 %	15 cm		
<i>Mukia maderaspatana</i>	+	<1 %	1.3 m	B60-15	
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	40 cm		
<i>Passiflora foetida</i>	+	<1 %	1.6 m		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	30 cm		
<i>Pterocaulon sphacelatum</i>	+	<1 %	45 cm	=B53	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	1 cm	B60-18	
<i>Rhagodia eremaea</i>	+	<1 %	1.4 m		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	60 cm	B60-10	Grey, not sticky
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1-1.4 m	=B53	
<i>Sesbania cannabina</i>	1-2%	1-5%	0.7-2.5 m	B60-6	
<i>Sida</i> aff. <i>fibulifera</i> (B64-13B)	+	<1 %	10 cm	B60-14	<i>Sida</i> aff. <i>fibulifera</i>
<i>Stemodia grossa</i>	+	<1 %	40 cm	B60-5	
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	35 cm	B60-11	
<i>Terminalia canescens</i>	+	<1 %	7 cm		Juvenile
<i>Themeda</i> sp. Burrup (B84)	+	<1 %	20 cm	B60-17	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	15 cm		
<i>Triodia angusta</i> (Burrup Form)	+/- 20%	10-25%	40-70 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	15 cm		

Burrup Peninsula Site B061

Described by MET **Date** 26/05/00

Location East of Rifle Range

Air Photo **Photo** 4 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 474688mE, 7714973mN 474735mE, 7714989mN

Habitat Rock pile +/- south facing, fairly steep slope.

Soil

Rock Type Volcanic, fairly fine grained.

Vegetation *Brachychiton acuminatus*, *Ehretia saligna* var. *saligna* scattered low trees over *Flueggea virosa* subsp. *melanthesoides*, *Dichrostachys spicata* tall open shrubland over *Triumfetta appendiculata* (Burrup form) scattered low shrubs with *Dicliptera armata* very open annual herbland with *Porona commixta* scattered lianes.

Veg Condition Excellent

Fire Age > 10 years.

Notes Some large boulders and a small amount of outcrop, but mostly cobbles to small boulders with pebble fill near lower edge.
Tephrosia aff. *densa* (B17) was downslope of this site at the top of a small flowline, below the *Themeda* sp. Burrup (B84) zone.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Abutilon fraseri</i>	+	<1 %	15-40 cm	
	<i>Abutilon lepidum</i>	+	<1 %	20 cm	B61-13

<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1 m		
<i>Achyranthes aspera</i>	+	<1 %	1.3 m		
<i>Alectryon oleifolius</i>	+	<1 %	1 m		
<i>Boerhavia coccinea</i> (form A)	+	<1 %	25 cm	B61-10	Leaves light green (this
<i>Brachychiton acuminatus</i>	+	<1 %	6 m		
<i>Cassia glutinosa</i>	+	<1 %	1.4-1.5		
<i>Cenchrus ciliaris</i>	+	<1 %	5-40 cm		
<i>Cleome viscosa</i>	+	<1 %	(15)		
<i>Clerodendrum tomentosum</i>	+	<1 %	1.5-2.5 m	B61-1	
<i>Corymbia hamersleyana</i>	+	<1 %	4 m		Only along lower edge
<i>Dichrostachys spicata</i>	+	<1 %	2-3 m		
<i>Dicliptera armata</i>	< 5	1-5%	15-35 cm		
<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	3-5 m		Tall
<i>Enchylaena tomentosa</i>	+	<1 %	1 m		
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	5 cm	B61-14	
<i>Ficus platypoda</i> var. <i>D</i>	+	<1 %	2.5 m	B61-8	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	<= 1%	<1 %	2-3 m		
<i>Gomphrena cunninghamii</i>	+	<1 %	15 cm		
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1.3 m		
<i>Ipomoea costata</i>	+	<1 %	2.5 m		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1 m		
<i>Mukia maderaspatana</i>	+	<1 %	1 m	B61-5	
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	20 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	40 cm		
<i>Porana commixta</i>	+	<1 %	2-2.5 (4)	B61-2	
<i>Pterocaulon sphacelatum</i>	+	<1 %	55 cm	B61-11	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	1.2 m	B61-3	
<i>Rhagodia eremaea</i>	< 1%	<1 %	1.4 m	B61-4	
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	30 cm	B61-9	Grey, not sticky (this
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	2.3 m	B61-6	
<i>Streptoglossa decurrens</i>	+	<1 %	60 cm	B61-12	
<i>Terminalia supranitifolia</i>	+	<1 %	1.9-2.5 m		
<i>Tinospora smilacina</i>	+	<1 %	2 m		
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	60 cm	B61-15	Only along lower edge
<i>Triodia epactia</i> (Burrup Form)	+	<1 %	20-40 cm	B61-7	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	20 cm		
<i>Triumfetta clementii</i>	+	<1 %	15 cm		

Burrup Peninsula Site B062

Described by MET **Date** 26/05/00

Location South of gas plant (corridor/Gorgon area)

Air Photo **Photo** 3 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 474790mE, 7720386mN 474780mE, 7720295mN

Habitat Gully with rock pile sides, fairly narrow base (ca. 5-8 m). Has seepage and a series of small temporary pools (some 50 m across).

Soil Brown silty sand (medium grained). Has ca. 1-2 cm litter layer.

Rock Type Volcanic, fairly fine grained

Vegetation *Eucalyptus victrix* low open woodland over *Acacia coriacea* subsp. *coriacea*, *Flueggea virosa* subsp. *melanthesoides*, *Rhagodia eremaea* scattered shrubs over *Triodia angusta* (Burrup form) hummock grassland with a narrow strip of *Cyperus vaginatus*, *Cyperus bifax* sedgeland and *Cassytha capillaris*, *Rhynchosia* sp. Burrup (82-1C) very open lianes.

Veg Condition Excellent

Fire Age > 10 years

Notes Because of the low diversity encountered, an extra 30+ m south of peg 2 was inspected and no additional species recorded. Most of the *Rhynchosia* sp. Burrup (82-1C) was near the rocky

areas. The water is flowing slowly (ca. 30 mm of rain 3 days ago over 2 days). No *Ammannia* observed (searched for in plot). 50 m NW along creek from plot there is a deeper pool (to ca. 50 cm) that is maintained by a 'bank' of calcrete at its lower end. There is a second pool below it. The calcrete appears to be developing (or just has) under an algal sheet. Photo 2, Roll MB1.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	20-60 cm		
	<i>Acacia bivenosa</i>	+	<1 %	1.7 m		Near rocks, one plant
	<i>Acacia colei</i>	+	<1 %	1.4 m	B62-11	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1-2 m		Juvenile
	<i>Aerva javanica</i>	+	<1 %	60 cm		
	<i>Amaranthus pallidiflorus</i>	+	<1 %	60 cm	B62-5	
	<i>Brachychiton acuminatus</i>	+	<1 %	30 cm		Juvenile
	<i>Cassytha capillaris</i>	2%	1-5%	50-120	B62-1	
	<i>Cymbopogon ambiguus</i>	+	<1 %	50 cm	B62-12	Near rocks
	<i>Cyperus bifax</i>	+	<1 %	60-90 cm	B62-4	
	<i>Cyperus vaginatus</i>	2%	1-5%	0.7-1 m		
	<i>Dichrostachys spicata</i>	+	<1 %	1 m		
	<i>Eucalyptus victrix</i>	3-5%	1-5%	4-7 m		
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	1 m	B62-7	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.1 m		
	<i>Gomphrena cunninghamii</i>	+	<1 %	7 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	50 cm	B62-8	
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	45 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	45 cm		
	<i>Pluchea rubelliflora</i>	+	<1 %	20 cm	B62-10	
	<i>Pterocaulon sphacelatum</i>	+	<1 %	30 cm	B62-3	
	<i>Rhagodia eremaea</i>	+	<1 %	45 cm		Juvenile
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	50 cm	B62-6	Green, sticky
	<i>Solanum horridum</i>	+	<1 %	12 cm	B62-14	Near rocks
	<i>Stemodia grossa</i>	1%	1-5%	50-75 cm	B62-2	
	<i>Terminalia canescens</i>	+	<1 %	1.5 m		
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	0.2-1.3 m		
	<i>Trichosanthes cucumerina</i>	+	<1 %	4 m		
	<i>Triodia angusta</i> (Burrup Form)	50-70	50-75%	0.7-1 m		
	<i>Triodia epactia</i> (Burrup Form)	+	<1 %	35-60 cm	B62-9	?
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	20 cm		
	<i>Triumfetta clementii</i>	+	<1 %	35 cm	B62-13	

Burrup Peninsula Site B063

Described by MET **Date** 26/05/00

Location Between Dampier Port and Gas Plant.

Air Photo **Photo** 1 **on Roll** M1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 474782mE, 7721343mN

Habitat Sand dune, second stabilized one from the beach.

Soil Pale brown calcareous sand with shell fragments. Pinkish surface in places.

Rock Type N/R

Vegetation *Acacia bivenosa*, *Acacia coriacea* subsp. *coriacea* scattered tall shrubs over **Aerva javanica* low shrubland over *Triodia epactia* (Burrup form) hummock grassland.

Veg Condition Poor to good; heavily invaded by *Aerva*. Also a track cuts across the site.

Fire Age > 5 years

Notes The *Indigofera colutea* is heavily grazed. Plot not quite square to keep NE corner out of a flow line.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	+	<1 %	1.3-2 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.7 m		
	<i>Aerva javanica</i>	<= 50	33.3-50%	40-60 cm		
	<i>Amaranthus</i> sp. (D111)	+	<1 %	25 cm	B63-7	
	<i>Boerhavia coccinea</i> (form B)	+	<1 %	10 cm	B63-2	
	<i>Enchylaena tomentosa</i>	+	<1 %	1.5 m		
	<i>Euphorbia biconvexa</i>	+	<1 %	20 cm	B63-6	
	<i>Euphorbia</i> sp. (D105-1)	+	<1 %	5-12 cm	B63-10	
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	20-30 cm	B63-8	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10 cm	B63-14	
	<i>Goodenia microptera</i>	+	<1 %	10 cm	B63-12	
	<i>Indigofera colutea</i>	+	<1 %	5 cm		
	<i>Indigofera linifolia</i>	+	<1 %	5 cm		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	30-50 cm	B63-3	
	<i>Rhynchosia</i> cf. <i>minima</i>	+/- 1	1-5%	10 cm	B63-4	
	<i>Scaevola anchusifolia</i>	+	<1 %	35 cm	B63-11	
	<i>Sida</i> aff. <i>fibulifera</i> (oblong; MET 15 220)	+	<1 %	20 cm	B63-13	
	<i>Solanum horridum</i>	+	<1 %	15 cm	B63-5	
	<i>Swainsona formosa</i>	+	<1 %	15 cm		
	<i>Swainsona perostylis</i>	+	<1 %	20-35 cm	B63-9	
	<i>Triodia epactia</i> (Burrup Form)	+/- 45	33.3-50%		B63-1	Has runners. ?pungens
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	20 cm		
	<i>Triumfetta clementii</i>	+	<1 %	30 cm		

Burrup Peninsula Site B064**Described by** MET **Date** 26/05/00**Location** Between gas plant and port near crest. Next to Hodlen Bay/Beach.**Air Photo** **Photo** **on Roll** **Video** **N** **E Photo****Photo Notes****AMG Zone** 50 474676mE, 7721388mN 474704mE, 7721422mN**Habitat** Isolated rock pile.**Soil** Fine brown sand.**Rock Type** Fine grained grey volcanic.**Vegetation** *Terminalia supranitifolia* scattered tall shrubs over *Acacia coriacea* subsp. *coriacea* high open shrubland over *Scaevola spinescens* (narrow form), *Dicrostachys spicata* scattered shrubs over **Aerva javanica* low open shrubland and patches of *Triodia epactia* (Burrup form) open hummock grassland.**Veg Condition** Good to very good (reduced by presence of *Aerva*).**Fire Age** > 10 years.**Notes** Only the grey fine grained rock pile sampled. Site ended to avoid paler (rock).**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	30-50 cm	B64-2	
	<i>Acacia bivenosa</i>	+	<1 %	1.6 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	2-3	1-5%	1-2 m		
	<i>Aerva javanica</i>	5%	5-10%	40-70 cm		
	<i>Amaranthus</i> sp. (D111)	+	<1 %	30 cm	B64-14	
	<i>Boerhavia coccinea</i> (form A)	+	<1 %		B64-8A	
	<i>Boerhavia coccinea</i> (form B)	+	<1 %	15 cm	B64-8B	
	<i>Brachychiton acuminatus</i>	+	<1 %	10 cm		to 2+ m just out

<i>Cassytha capillaris</i>	+	<1 %	50 cm	B64-7	
<i>Cenchrus ciliaris</i>	+	<1 %	15 cm		
<i>Cleome viscosa</i>	+	<1 %	95 cm		
<i>Commicarpus australis</i>	+	<1 %	60 cm		
<i>Corchorus walcottii</i>	+	<1 %	20 cm	B64-5	
<i>Dichrostachys spicata</i>	+	<1 %	1.5 m		
<i>Enchylaena tomentosa</i>	+	<1 %	80 cm		
<i>Ficus opposita</i>	+	<1 %			
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.7 m		
<i>Indigofera linifolia</i>	+	<1 %	15 cm		Only at base
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	50 cm		
<i>Indigofera trita</i>	+	<1 %	30 cm		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	80 cm		
<i>Malvastrum americanum</i>	+	<1 %	30-50 cm		
<i>Mukia maderaspatana</i>	+	<1 %	70 cm	B64-12	
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	20 cm		{recorded twice}
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	30 cm		
<i>Pterocaulon sphacelatum</i>	+	<1 %	2 cm	B64-15	Juvenile
<i>Rhagodia eremaea</i>	+	<1 %	75 cm		
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	20-60 cm	B64-4	
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.4 m	B64-1	
<i>Sida</i> aff. <i>fibulifera</i> (B64-13B)	+	<1 %		B64-13B	
<i>Sida</i> aff. <i>fibulifera</i> (oblong; MET 15 220)	+	<1 %	10 cm	B64-13	
<i>Solanum horridum</i>	+	<1 %	10 cm	B64-11	
<i>Streptoglossa decurrens</i>	+	<1 %	25 cm	B64-9	
<i>Swainsona formosa</i>	+	<1 %	15-50 cm		
<i>Terminalia supranitifolia</i>	+	<1 %	2 m		
<i>Tinospora smilacina</i>	+	<1 %	2 m		
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	10 cm	B64-6	
<i>Tribulus occidentalis</i>	+	<1 %	10 cm	B64-10	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	40 cm		
<i>Triodia epactia</i> (Burrup Form)	+	<1 %	30-60 cm	B64-3	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	15 cm		

Burrup Peninsula Site B065

Described by MET **Date** 27/05/00 60 x 40 m
Location North end of Peninsula near end of 'inland' northern track (north/central).
Air Photo **Photo** 2 **on Roll** M2 **Video** N E **Photo** 274-6
Photo Notes
AMG Zone 50 483059mE, 7729047mN 483100mE, 7729031mN 483066mE, 7728980mN 483026mE, 7728990mN
Habitat Gentle to moderate upper slope on a ridge, faces west. Has some boulders that may be outcrop.
Soil Silty fine brown sand amongst pebbles and cobbles.
Rock Type Ligh grey medium grained volcanic.
Vegetation *Acacia bivenosa* scattered tall shrubs over *Acacia coleii* scattered shrubs over *Themeda* sp. Burrup (B84), *Triodia epactia* (Burrup form) tussock/hummock grassland.
Veg Condition Excellent.
Fire Age > 5years, ? >10 years.
Notes To avoid rock pile plot is 60 x 40 metres instead of 50 x 50 m. Electronic photos 274, 275, 276.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	<=1	1-5%	1.5-2.2 m		
	<i>Acacia coleii</i>	<1	1-5%	(0.3)	B65-1	Broad phyllode
	<i>Acacia pyrifolia</i> (slender, white)	+	<1 %	60 cm	B65-17	Slender stem not
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	5 cm	B65-5	
	<i>Bulbostylis barbata</i>	+	<1 %	5 cm		

Corchorus walcottii	+	<1 %	15 cm	B65-21	
Euphorbia coghlanii	+	<1 %	25 cm	B65-8	
Gomphrena cunninghamii	+	<1 %	6 cm		
Goodenia microptera	+	<1 %	10 cm	B65-12	
Grevillea pyramidalis subsp. pyramidalis	+	<1 %	15-40 cm		
Hakea chordophylla	+	<1 %	60cm - 2	B65-19	
Hibiscus sturtii var. campylochlamys	+	<1 %	20 cm	B65-20	
Hybanthus aurantiacus	+	<1 %	12 cm	B65-14	Top only, next to
Mollugo molluginis	+	<1 %	10 cm		
Polygala sp. (M23-2)	+	<1 %	2 cm	B65-11	
Pterocaulon sphacelatum	+	<1 %	2 cm	B65-18,10	
Ptilotus fusiformis var. fusiformis	+	<1 %	20 cm	B65-16	
Rhynchosia cf. minima	+	<1 %	45 cm	B65-7	
Striga curviflora	+	<1 %	35 cm	B65-4	
Tephrosia sp.B Kimberley Flora(C.A.Gardner 7300)	+	<1 %	60 cm	B65-15	Top only, next to
Tephrosia supina	+	<1 %	5 cm	B65-9	
Themeda sp. Burrup (B84)	<=30%	25-33.3%	35-65 cm	B65-2	
Trachymene aff. oleracea (B61)	+	<1 %	5 cm	B65-13	
Trichodesma zeylanicum var. zeylanicum	+	<1 %	40 cm		
Triodia epactia (Burrup Form)	>20%	10-25%	25-40 cm	B65-3	
Triodia wiseana (Burrup Form)	+	<1 %	30 cm	B65-6	
Triumfetta clementii	+	<1 %	15 cm		

Burrup Peninsula Site B066

Described by MET **Date** 27/05/00

Location North end (centre) of Peninsula.

Air Photo **Photo** 26 **on Roll** M2 **Video** Y **E Photo** 278

Photo Notes

AMG Zone 50 483120mE, 7729442mN 483143mE, 7729486mN

Habitat Rock pile.

Soil

Rock Type Light grey medium grained volcanic.

Vegetation Ehretia saligna var. saligna, Brachychiton acuminatus scattered low trees over Terminalia supranitifolia high open shrubland over Acacia coriacea subsp. coriacea, Rhagodia eremaea, Grevillea pyramidalis subsp. pyramidalis, Ipomoea costata, Scaevola spinescens (narrow form) scattered shrubs over Triodia epactia (Burrup form) very open hummock grassland with Dicliptera armata very open annual herbland.

Veg Condition Excellent

Fire Age > 5 years, ? > 10 years.

Notes 2 pegs 50 m apart. Recorded up to crest of rock pile.
Footage taken on electronic camera.

Rock Pile Notes Elongate crest. Some outcrop. Mostly medium (ca. 50 cm) to long (>1 m) boulders. Some small areas with soil surface - mostly on lower part, but one on crest with Triodia angusta (Burrup form).

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %			
	Abutilon lepidum	+	<1 %	45 cm	B66-19	
	Acacia coriacea subsp. coriacea	+	<1 %	1 m		
	Alectryon oleifolius	+	<1 %	60 cm		
	Boerhavia gardneri	+	<1 %	40 cm	B66-8	
	Brachychiton acuminatus	+	<1 %	2.3-4 m		
	Cajanus cinereus	+	<1 %	35 cm	B66-6	
	Commelina ensifolia	+	<1 %	15 cm		
	Corchorus walcottii	+	<1 %	20 cm	B66-17	
	Corymbia hamersleyana	+	<1 %	3.5 m		At lower edge only.

<i>Cymbopogon ambiguus</i>	+	<1 %	40-60 cm	B66-2	
<i>Cynanchum floribundum</i>	+	<1 %	20 cm	B66-10	Prostrate
<i>Dicliptera armata</i>	>5%	5-10%	15-35 cm		
<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	4 m		
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2.2 m		
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	0.6-1.5 m		
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	60 cm		
<i>Ipomoea costata</i>	+	<1 %	1.5 m		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1 m	B66-6A	
<i>Melhania</i> sp. Burrup	+	<1 %	45 cm	B66-13	
<i>Mukia maderaspatana</i>	+	<1 %	25 cm	B66-16	At lower edge only.
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	50 cm		
<i>Pterocaulon sphacelatum</i>	+	<1 %	50 cm	B66-11	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	50-60 cm	B66-7	
<i>Rhagodia eremaea</i>	+	<1 %	1.4 m		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	30 cm	B66-12	
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	30 cm	B66-15	At lower edge only.
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.5 m	B66-5	
<i>Solanum horridum</i>	+	<1 %	20 cm	B66-9	
<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %	0.7 m		Delete from analysis.
<i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)	+	<1 %	1 m	B66-1	
<i>Terminalia supranitfolia</i>	<=10	5-10%	0.7-2.5 m	B66-4	juvenile Ter. sup.
<i>Themeda</i> sp. Burrup (B84)	+	<1 %	55 cm	B66-14	
<i>Tinospora smilacina</i>	+	<1 %	25 cm		At lower edge only.
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	30 cm	B66-18	At lower edge only.
<i>Trichosanthes cucumerina</i>	+	<1 %	1 m		
<i>Triodia angusta</i> (Burrup Form)	+	<1 %	40-60 cm		
<i>Triodia epactia</i> (Burrup Form)	<=5	1-5%	30-40 cm	B66-3	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	15-30 cm		
<i>Triumfetta clementii</i>	+	<1 %	15 cm		

Burrup Peninsula Site B067

Described by MET **Date** 27/05/00

Location North end of Burrup Peninsula (near centre of).

Air Photo **Photo** 25 **on Roll** M2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 482977mE, 7729681mN 482950mE, 7729588mN

Habitat Narrow plain paralleling creek, slopes to north gently but distinctly and also slopes slightly away from the creek.

Soil Pebbly to cobbly with fine brown sand between the pebbles. Some larger rocks.

Rock Type N/R

Vegetation *Eucalyptus victrix* scattered low trees over *Tephrosia rosea* var. *clementii* low open shrubland over *Triodia epactia* (Burrup form), *Triodia angusta* (Burrup form) hummock grassland.

Veg Condition Excellent.

Fire Age

Notes Area with *Sesbania* at base of rock pile avoided. Has some seepage areas, these included. A strip 100 m by approximately 20 m recorded avoiding rock piles and *Sesbania* area at base of large rock pile. Downslope (to north) the *E. victrix* is only away from the creek in a swale parallel to the creek.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	+	<1 %	5 cm - 1.5		
	<i>Acacia colei</i>	+	<1 %	50-90 cm	B67-4	Broad phyllodes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	(0.2)		
	<i>Acacia pyrifolia</i> (slender, white)	+	<1 %	1.7-2.4 m	B67-14	Slender stems, prunose,

<i>Ammannia baccifera</i>	+	<1 %	5-25 cm	B67-12	
<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	5 cm		
<i>Bulbostylis barbata</i>	+	<1 %	10 cm		
<i>Calandrinia</i> sp.	+	<1 %	3-5 cm	B67-6	
<i>Cassytha capillaris</i>	+	<1 %	65 cm	B67-9	On <i>Triodia angusta</i>
<i>Chrysopogon fallax</i>	+	<1 %	30 cm	B67-17	
<i>Corchorus walcottii</i>	+	<1 %	25 cm	B67-13	
<i>Corymbia hamersleyana</i>	+	<1 %	3.8 m		
<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	60 cm		
<i>Cymbopogon ambiguus</i>	+	<1 %	60 cm	B67-8	
<i>Cyperus squarrosus</i>	+	<1 %	5 cm		
<i>Eragrostis cumingii</i>	+	<1 %	5-12 cm	B67-7	
<i>Eriachne obtusa</i>	1-2	1-5%	60 cm	B67-3	
<i>Eucalyptus victrix</i>	+/-2	1-5%	5-7 m		
<i>Fimbristylis rara</i>	+	<1 %	5-10 cm	B67-11	
<i>Gomphrena canescens</i>	+	<1 %	10 cm		
<i>Goodenia microptera</i>	+	<1 %	7 cm	B67-10	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	15 cm	B67-20	
<i>Indigofera colutea</i>	+	<1 %	10-35 cm		
<i>Indigofera linifolia</i>	+	<1 %	25-40 cm		
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	35 cm		
<i>Indigofera trita</i>	+	<1 %	30 cm		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	35 cm		
<i>Mollugo molluginis</i>	+	<1 %	15 cm		
<i>Mukia maderaspatana</i>	+	<1 %	40 cm	B67-18	
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	10-20 cm		
<i>Pluchea rubelliflora</i>	+	<1 %	5-10 cm		
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	15-30 cm		
<i>Polymeria calycina</i>	+	<1 %	2-15 cm	B67-16	
<i>Pterocaulon sphacelatum</i>	+	<1 %	30-50 cm		=B66
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	25 cm	B67-5	Grey/green
<i>Stemodia grossa</i>	+	<1 %	5-10 cm		Juvenile
<i>Streptoglossa decurrens</i>	+	<1 %	20 cm	B67-19	
<i>Swainsona formosa</i>	+	<1 %	5 cm		
<i>Tephrosia rosea</i> var. <i>clementii</i>	5-10	5-10%	0.5-1 m	B67-1	
<i>Tephrosia supina</i>	+	<1 %	6 cm	B67-15	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	10-40 cm		
<i>Triodia angusta</i> (Burrup Form)	<=25	10-25%	70-90 cm	B67-21	{recorded twice}
<i>Triodia epactia</i> (Burrup Form)	<=20%	10-25%	20-40 cm	B67-2	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	15 cm		
<i>Triumfetta clementii</i>	+	<1 %	20 cm		

Burrup Peninsula Site B068

Described by ASW **Date** 26/05/00

Location Gully/flow line near and W of rockpile B050.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 472304mE, 7714013mN 472348mE, 7714102mN

Habitat Damp flow line.

Soil Black loamy

Rock Type

Vegetation *Acacia pyrifolia* (green) scattered shrubs over *Triodia epactia* (Burrup form), *Themeda* sp. Burrup (B84), **Cenchrus ciliaris* hummock/tussock grassland with *Stemodia grossa*, *Tephrosia* aff. *supina* (MET 12,357) annual herbland and *Rhynchosia* cf. *minima* open lianes.

Veg Condition Good to poor (much **Cenchrus ciliaris*)

Fire Age

Notes The plot is the bed of the flowline, which varies from > 3 m to 50 cm wide..

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia pyrifolia (green)	<2%	1-5%	100 cm		[assumed to be white]
	Ammannia baccifera	1	1-5%	10 cm	B68-4	
	Cenchrus ciliaris	10	5-10%	60 cm		
	Chrysopogon fallax	+	<1 %	50 cm	B68-10	
	Corchorus walcottii	2	1-5%	20 cm	B68-2	
	Dactyloctenium radulans	+	<1 %	< 5 cm	B68-7	Mixture (dead)
	Fimbristylis sp.	1	1-5%	15 cm	B68-1	
	Genus sp. Unnamed		<1 %		B68-5	sedge
	Genus sp. Unnamed		<1 %		B68-9	Shrub. Specimen lost.
	Malvastrum americanum	+	<1 %	60 cm	B68-8	
	Phyllanthus maderaspatensis var. angustifolius	1	1-5%	15 cm		
	Pterocaulon sphacelatum	1	1-5%	40 cm		
	Rhynchosia cf. minima	15	10-25%	50 cm		
	Sida sp.	2	1-5%	30 cm	B68-3	
	Solanum horridum	1	1-5%	15 cm		(lobed) =B48
	Stemodia grossa	30	25-33.3%	40 cm		
	Stylosanthes hamata	+	<1 %	5 cm	B68-6	
	Tephrosia aff. supina (MET 12,357)	20	10-25%	30 cm		(mauve)
	Themeda sp. Burrup (B84)	10	5-10%	60 cm		
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	20 cm		
	Triodia epactia (Burrup Form)	60	50-75%	50 cm		
	Triumfetta appendiculata (Burrup Form)	1	1-5%	20 cm		Felty, green
	Triumfetta clementii	+	<1 %	20 cm		

Burrup Peninsula Site B069

Described by ASW **Date** 26/05/00

Location SW of communication towers, N of plot B50.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 472375mE, 7714141mN 472373mE, 7714229mN

Habitat Bed of flowline

Soil Dark (reddish) brown clayey loam

Rock Type

Vegetation Acacia pyrifolia (green), Acacia coraicea subsp. coriacea, Acacia inaequilatera high open shrubland over Acacia orthocarpa, Cassia sp., Acacia bivenosa, Grevillea pyramidalis subsp. pyramidalis open shrubland over Sida sp., Corchorus walcottii, Solanum horridum low open shrubland to low shrubland over Triodia epactia (Burrup form), *Cenchrus ciliaris, Themeda sp. Burrup (B84) hummock/tussock grassland with Tephrosia aff. supina open herbland and Rhynchosia cf. minima very open lianes.

Veg Condition Poor (due to weediness)

Fire Age

Notes The transect - bed of flowline - varies in width from 2 m to > 10 m.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	1	1-5%	150 cm		
	Acacia coriacea subsp. coriacea	2	1-5%	2.5 m		
	Acacia inaequilatera	2	1-5%	3.0 m		
	Acacia orthocarpa	3	1-5%	200 cm	B69-1	
	Acacia pyrifolia (green)	2	1-5%	3.5 m		Green
	Boerhavia sp.	1	1-5%	50 cm		

Cassia sp.	2	1-5%	2.0 m	B69-2
Cenchrus ciliaris	25	25-33.3%	50 cm	
Chrysopogon fallax	4	1-5%	> 80 cm	(=B68)
Corchorus walcottii	8	5-10%	50 cm	=B68
Cymbopogon ambiguus	4	1-5%	1.4 m	
Evolvulus alsinoides var. villosicalyx	1	1-5%	10 cm	=B48
Grevillea pyramidalis subsp. pyramidalis	1	1-5%	100 cm	
Hybanthus aurantiacus	1	1-5%	50 cm	
Indigofera monophylla (Burrup form)	2	1-5%	50 cm	
Jasminum didymum subsp. lineare	1	1-5%	150 cm	
Malvastrum americanum	1	1-5%	50 cm	
Mukia maderaspatana	1	1-5%	50 cm	
Phyllanthus maderaspatensis var. angustifolius	2	1-5%	50 cm	
Pterocaulon sphacelatum	1	1-5%	50 cm	
Rhynchosia cf. minima	8	5-10%	60 cm	
Sida sp.	15	10-25%	90 cm	RH (=B68)
Solanum horridum	5	5-10%	15 cm	lobed, =B48
Swainsona formosa	+	<1 %	40 cm	
Tephrosia aff. supina	15	10-25%	50 cm	
Themeda sp. Burrup (B84)	5	5-10%	50 cm	
Trichodesma zeylanicum var. zeylanicum	1	1-5%	30 cm	
Triodia epactia (Burrup Form)	40	33.3-50%	50 cm	
Triumfetta appendiculata (Burrup Form)	5	5-10%	50 cm	Felty, =B68
Triumfetta clementii	2	1-5%	40 cm	

Burrup Peninsula Site B070

Described by ASW **Date** 26/05/00

Location Entire grassland bordered by rockpiles and old track on NE side of site, 235 degrees from communications tower ~200 m.

Air Photo **Photo** 12 **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 472509mE, 7714041mN

Habitat Ridge top, boulders grassland above and between rockpiles.

Soil Pale red-brown loamy clay; sparse.

Rock Type

Vegetation Ipomoea costata scattered tall shrubs over Cajanus cinereus open shrubland over Themeda sp. Burrup (B84), Triodia epactia (Burrup form) tussock/hummock grassland with Tephrosia aff supina (MET 12,357) very open annual herbland and Rhynchosia cf. minima scattered lianes.

Veg Condition Very good.

Fire Age

Notes Two signs, "Danger. Blasting in progress" are in the centre of the plot. Line runs between the two signs +/-E- W, is 60 m long. NW boundary in NE part is 20 m from sign. The *Aerva javanica areas at the bases of piles are excluded, as are human disturbed areas. More (shallowly) outcroppy than B048.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	Abutilon fraseri	+	<1 %	20 cm	B70-3
	Acacia orthocarpa	1	1-5%	50 cm	
	Aerva javanica	+	<1 %	30 cm	
	Boerhavia gardneri	+	<1 %	40 cm	B70-2
	Bonamia media var. villosa	+	<1 %	5 cm	B70-1
	Cajanus cinereus	> 10	10-25%	80 cm	
	Cassia glutinosa	+	<1 %	80 cm	glutinosissima (=B9)
	Commelina ensifolia	1	1-5%	20 cm	
	Crotalaria medicaginea (Burrup form; B65-11)	1	1-5%	30 cm	

Cullen sp.	+	<1 %	20 cm		
Digitaria ctenantha	+	<1 %	30 cm	B70-5	
Dysphania rhadinostachya subsp. rhadinostachya	+	<1 %	30 cm	B70-4	
Euphorbia sp.	+	<1 %	20 cm		=B48 {unreliable- too
Evolvulus alsinoides var. villosicalyx	1	1-5%	15 cm		
Gomphrena cunninghamii	+	<1 %	10 cm		
Grevillea pyramidalis subsp. pyramidalis	1	1-5%	40 cm		
Indigofera monophylla (Burrup form)	1	1-5%	20 cm		
Ipomoea costata	<2	1-5%	2.0 m		
Mukia maderaspatana	+	<1 %	30 cm		
Polycarpaea longiflora (red form)	1	1-5%	30 cm		
Portulaca pilosa	+	<1 %	10 cm		=B48
Ptilotus exaltatus var. exaltatus	1	1-5%	40 cm		
Rhynchosia cf. minima	2	1-5%	30 cm		
Tephrosia aff. densa (B17)	+	<1 %	20 cm	B70-6	
Tephrosia aff. supina (MET 12,357)	10	5-10%	30 cm		(mauve)
Themeda sp. Burrup (B84)	45	33.3-50%	45 cm		
Trachymene aff. oleracea (B61)	+	<1 %	10 cm		
Triodia epactia (Burrup Form)	25	25-33.3%	45 cm		
Triumfetta appendiculata (Burrup Form)	1	1-5%	15 cm		Felty, green
Triumfetta clementii	2	1-5%	15 cm		small
Vigna lanceolata var. latifolia	1	1-5%	40 cm		Broad

Burrup Peninsula Site B071

Described by ASW **Date** 26/05/00

Location Upland valley 50-100 m N of B048, WSW to Burrup Road/Dampier-Karratha Road junction.

Air Photo **Photo** 13 **on Roll** AS **Video** N **E Photo**

Photo Notes Looking in(?) from the S corner. The trees and shrubs are excluded (not on xxx).

AMG Zone 50 472161mE, 7714097mN 472231mE, 7714120mN

Habitat Hummock grasses on gentle slope and saddle between two gullies.

Soil Reddish gravelly loam.

Rock Type Few boulders and coarse gravel, red-brown, mainly dark.

Vegetation Triodia wiseana (Burrup form), Themeda sp. Burrup (B84) hummock/tussock grassland with Tephrosia aff. supina (MET 12,357) very open annual low herbland and Rhynchosia cf. minima very open lianes.

Veg Condition Very good - excellent.

Fire Age < 1995?

Notes The significant stands of Themeda sp. Burrup (B84) and Triodia epactia (Burrup form) are excluded.

Near Peg 1, mixed Triodia epactia (Burrup form) / Triodia wiseana (Burrup form), Aristida.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia pyrifolia (green)	+	<1 %	100 cm		Green
	Aristida contorta	+	<1 %		B71-A	Near Peg 1
	Bonamia media var. villosa	+	<1 %	10 cm	B71-3	
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	5 cm		
	Cymbopogon ambiguus	1	1-5%	90 cm		
	Gomphrena cunninghamii	+	<1 %	5 cm		
	Heliotropium tenuifolium	+	<1 %	20 cm	B71-5	
	Hibiscus aff. coatesii (MET 15 012)	+	<1 %	50 cm	B71-1	
	Ptilotus exaltatus var. exaltatus	+	<1 %	15 cm		
	Ptilotus gaudichaudii var. gaudichaudii	+	<1 %	50 cm		gau (=B)
	Rhynchosia cf. minima	5	5-10%	50 cm		dull
	Swainsona formosa	1	1-5%	50 cm		
	Tephrosia aff. supina (MET 12,357)	2	1-5%	30 cm		aff.

Themeda sp. Burrup (B84)	5	5-10%	50 cm		
Triodia wiseana (Burrup Form)	> 50	50-75%	50 cm	B71-4	
Triumfetta appendiculata (Burrup Form)	+	<1 %	50 cm	B71-2	Felty, white

Burrup Peninsula Site B072

Described by ASW **Date** 26/05/00

Location SW of B049, 50-100 m.

Air Photo **Photo** 14 **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 472043mE, 7713952mN 472025mE, 7713924mN

Habitat

Soil Organic, dark loamy.

Rock Type Subangular to angular dark/medium red brown boulders.

Vegetation Inadequate data recorded for a vegetation description to be completed.

Veg Condition Good - weedy with *Cenchrus ciliaris, *Aerva javanica (one patch) and Achyranthes aspera (one patch).

Fire Age

Notes The entire rockpile (but not edge vegetation) is the plot.

Rock Pile Notes As diagram of the rockpiles is in the site notes.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	<1 %		30 cm		
	Acacia coriacea subsp. coriacea	<1 %		2.5 m		
	Achyranthes aspera	<1 %		180 cm		(?annual)
	Aerva javanica	<1 %		1.5 m		
	Alectryon oleifolius	<1 %		1.5 m		
	Brachychiton acuminatus	<1 %		3.5 m		
	Cenchrus ciliaris	<1 %		70 cm		
	Chrysopogon fallax	<1 %		100 cm	B72-1	
	Commelina ensifolia	<1 %		20 cm		
	Cymbopogon ambiguus	<1 %		100 cm		Sometimes as isolated
	Dicliptera armata	<1 %		20 cm		
	Erythrina vespertilio	<1 %		2.0 m		
	Flueggea virosa subsp. melanthesoides	<1 %		3.0 m		
	Ipomoea costata	<1 %		300 cm		
	Jasminum didymum subsp. lineare	<1 %		50 cm		
	Mukia maderaspatana	<1 %		2.0 m		
	Paspalidium tabulatum (Burrup Form)	<1 %		40 cm		Sometimes as isolated
	Pittosporum phylliraeoides var. phylliraeoides	<1 %		2.0 m		
	Ptilotus exaltatus var. exaltatus	<1 %		40 cm		
	Rhagodia eremaea	<1 %				
	Rhynchosia cf. minima	<1 %		20 cm		Dull. Sometimes as
	Scaevola spinescens (narrow form)	<1 %		2.0 m		
	Tinospora smilacina	+	<1 %	30 cm		
	Trichosanthes cucumerina	+	<1 %	2.5 m		
	Triodia epactia (Burrup Form)		<1 %	40 cm		

Burrup Peninsula Site B073

Described by ASW **Date** 27/05/00

Location = 200 m NE tidal flat, north end XXX Bay at track junction, NW side. A few hundred metres S of Seeripple Passage, W of track.

Air Photo **Photo** 15 **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 481031mE, 7729446mN 481020mE, 7729510mN

Habitat Very gentle to gentle slope (w/o boulders, large boulders, outcrops, trees or *Triodia angusta* (Burrup form)) on terrace between track.

Soil Red/brown clay loam, with gravel to cobble surface.

Rock Type

Vegetation *Tephrosia rosea* var. *clementii*, *Indigofera monophylla* (Burrup form) low shrubland to low open heath over *Triodia epactia* (Burrup form) hummock grassland

Veg Condition Very good - excellent.

Fire Age See notes.

Notes The shortness of *Grevillea pyramidalis* subsp. *pyramidalis* and some other shrubs suggests relative recent burning, perhaps ca. 1995.
A small patch of rockpile vegetation within the plot was excluded from the vegetation description and species list, as was an area in the corner of the plot that was more bouldery.

Rock Pile Notes See field notes for diagrams.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	15 cm	B73-29	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	90 cm	B73-31	Long, narrow leaves
	<i>Acacia pyrifolia</i> (green)	1	1-5%	60 cm		Green
	<i>Acacia pyrifolia</i> (slender, white)	+	<1 %	60 cm	B73-26	Grey
	<i>Boerhavia gardneri</i>	1	1-5%	40 cm	B73-23	(=79)
	<i>Boerhavia</i> sp.	1	1-5%	40 cm	B73-9	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	15-30 cm	B73-17,28	Herb,
	<i>Bulbostylis barbata</i>	> 1	1-5%	15 cm	B73-13	
	<i>Cleome viscosa</i>	+	<1 %	40 cm		
	<i>Corchorus walcottii</i>	1	1-5%	40 cm	B73-4	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	> 2	1-5%	70 cm		
	<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	20 cm		
	<i>Euphorbia</i> aff. <i>australis</i> (B191)	1	1-5%	5 cm	B73-2	Prostrate
	<i>Euphorbia biconvexa</i>	1	1-5%	50 cm	B73-5	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	1	1-5%	40 cm	B73-21	
	<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	1	1-5%	5 cm	B71-19	Sedge, ?Fimb.
	<i>Gomphrena cunninghamii</i>	1	1-5%	25 cm		
	<i>Goodenia microptera</i>	2	1-5%	25 cm	B73-8	
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	1	<1 %	10-90 cm	B73-12	{recorded twice}
	<i>Heliotropium tenuifolium</i>	2	1-5%	20 cm	B73-15	= B yesterday
	<i>Hybanthus aurantiacus</i>	1	1-5%	20 cm		
	<i>Indigofera colutea</i>	> 1	1-5%	20 cm	B73-16	
	<i>Indigofera monophylla</i> (Burrup form)	10	5-10%	50 cm		
	<i>Ipomoea costata</i>	+	<1 %	80 cm		
	<i>Mollugo molluginis</i>	15	10-25%	15 cm		(=B79)
	<i>Paspalidium clementii</i>	+	<1 %	5 cm	B73-20	Grass, ?Pasp.
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	> 1	1-5%	60 cm	B73-3	Herb.
	<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	> 1	1-5%	25 cm	B73-6	2 species?
	<i>Polycarpaea longiflora</i> (red form)	1	1-5%	30 cm		
	<i>Portulaca pilosa</i>	1	1-5%	20 cm	B73-7	
	<i>Pterocaulon sphacelatum</i>	1	1-5%	40 cm	B73-25	
	<i>Rhagodia eremaea</i>	+	<1 %	60 cm	B73-32	Rigid shrub, w/o shell
	<i>Rhynchosia</i> cf. <i>minima</i>	1	1-5%	40 cm	B73-18	Dull
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	20 cm	B73-14	
	<i>Streptoglossa decurrens</i>	1	1-5%	50 cm	B73-1	
	<i>Swainsona formosa</i>	+	<1 %	20 cm		
	<i>Tephrosia rosea</i> var. <i>clementii</i>	20	10-25%	70 cm		Silvery
	<i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)	+	<1 %	80 cm	B73-30	(orange)
	<i>Tephrosia supina</i>	+	<1 %	30 cm	B73-22	Not mauve
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	1	1-5%	40 cm		
	<i>Triodia angusta</i> (Burrup Form)	15	10-25%	60 cm		
	<i>Triodia epactia</i> (Burrup Form)	40	33.3-50%	40 cm	B73-24	

Triumfetta clementii	2	1-5%	40 cm	B73-10	(sm)
Waltheria indica	+	<1 %	60 cm	B73-11	
Zornia muelleriana subsp. congesta	+	<1 %	15 cm	B73-27	

Burrup Peninsula Site B074

Described by ASW **Date** 27/05/00

Location ~150 m E of junction in B073 rockpile.

Air Photo **Photo** 18, **on Roll** AS **Video** N **E Photo**

Photo Notes Towards E, 18-left end and centre, 19-centre and right end

AMG Zone 50 481145mE, 7729438mN 481157mE, 7729360mN

Habitat Moderate to steep boulders slope: pockets of vegetation.

Soil Reddish brown loam with aggregates at base.

Rock Type

Vegetation Brachychiton acuminata, Terminalia canescens, Ficus platypoda var. A, Terminalia supranitifolia high open shrubland to low open woodland over Acacia coriacea subsp. coriacea, Ipomea costata scattered tall shrubs over Triodia epactia (Burrup form) scattered hummock grasses

Veg Condition Very good to excellent.

Fire Age ?

Notes Pockets of vegetation. 25-30% of rockpile vegetated.

Rock Pile Notes The plot is the entire rockpile, except the margins of grassland and Triodia epactia (Burrup form)/Ipomoea costata on top.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	20 cm		=B50-4
	Acacia coriacea subsp. coriacea	1%	1-5%	150 cm		
	Brachychiton acuminatus	3-4%	1-5%	300 cm		
	Cymbopogon ambiguus	+	<1 %	90 cm		
	Ficus platypoda var. A	5%	1-5%	300 cm	B74-2	
	Ipomoea costata	<1%	<1 %	250 cm		
	Jasminum didymum subsp. lineare	+	<1 %	80 cm		
	Mukia maderaspatana	+	<1 %	30 cm	B74-3	
	Rhagodia eremaea	+	<1 %	>250 cm		Smelly
	Rhynchosia sp. Burrup (82-1C)	+	<1 %	20 cm	B74-1	
	Terminalia canescens	>2%	1-5%	250 cm		
	Terminalia supranitifolia	>2%	1-5%	300 cm		
	Tinospora smilacina	+	<1 %	200 cm		
	Trichosanthes cucumerina	+	<1 %	100 cm		
	Triodia epactia (Burrup Form)	+	<1 %	30 cm		
	Triumfetta clementii	+	<1 %	30 cm		(sm)

Burrup Peninsula Site B076

Described by ASW **Date** 27/05/00

Location Base of rockpile = 150 m SE of B74.

Air Photo **Photo** **on Roll** AS **Video** N **E Photo**

Photo Notes 20, 22; 200 degrees from below plot or opposite it

AMG Zone 50 481189mE, 7729299mN

Habitat Moderate slope with denser shrubs and Triodia epactia thin(?) B072, around 2 m outcrop.

Soil Good mulch layer, dark chocolate brown clayey loam. Bare patches few.

Rock Type Coarse gravel - cobbles, 90% of surface. Cobbles > 70%.

Vegetation Indigofera monophylla (Burrup form), Tephrosia rosea var. clementii, Triumfetta appendiculata (Burrup form) low open heath over Triodia epactia (Burrup form), Triodia angusta (Burrup form) hummock grassland to closed hummock grassland.

Veg Condition Very good to excellent.

Fire Age < 1990? See notes.

Notes Probably not burnt for much longer than B72; the *Triodia* ssp. are taller and denser.
Excluding outcrop.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	1	1-5%	40 cm		=B72
	<i>Abutilon lepidum</i>	1	1-5%	40 cm	B76-1	Abutilon
	<i>Acacia colei</i>	+	<1 %	200 cm		Broad
	<i>Achyranthes aspera</i>	2-5	1-5%	40 cm		= B72 {= <i>Achyranthes</i> }
	<i>Amaranthus</i> sp. (D111)	+	<1 %			
	<i>Boerhavia burbridgeana</i>	2-5	1-5%	30 cm	B76-13,6	=B72, Specimen is a
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	5		
	<i>Chrysopogon fallax</i>	+	<1 %	10 cm		Grass = B72
	<i>Cleome viscosa</i>	1	1-5%	20 cm		
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	1	1-5%	50 cm		
	<i>Cymbopogon ambiguus</i>	2	1-5%	40 cm	B76-3	
	<i>Euphorbia coghlanii</i>	1	1-5%	30 cm		=B72
	<i>Euphorbia</i> sp. (D105-1)	+	<1 %			
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %			
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	1	1-5%	15 cm		
	<i>Gomphrena cunninghamii</i>	1	1-5%	5 cm		
	<i>Goodenia microptera</i>	2	1-5%	30 cm		=B72
	<i>Hybanthus aurantiacus</i>	1	1-5%	30 cm		
	<i>Indigofera linifolia</i>	2-5	1-5%	20 cm		linifolia/tri
	<i>Indigofera monophylla</i> (Burrup form)	25	25-33.3%	60 cm		
	<i>Ipomoea costata</i>	+	<1 %	60 cm		
	<i>Mollugo molluginis</i>	1	1-5%	5		=B72
	<i>Mukia maderaspatana</i>	1	1-5%	60 cm		
	<i>Paspalidium tabulatum</i> (Burrup Form)	1	1-5%	70 cm		
	<i>Polycarpaea longiflora</i> (red form)	1	1-5%	15 cm		
	<i>Portulaca oleracea</i>	1	1-5%	5 cm		
	<i>Pterocaulon sphacelatum</i>	1	1-5%	30 cm		
	<i>Rhynchosia</i> sp. Burrup (82-1C)	10	5-10%	60 cm	B76-4	
	<i>Solanum horridum</i>	+	<1 %	5 cm	B76-5	
	<i>Streptoglossa decurrens</i>	>1	1-5%	60 cm		=B72
	<i>Tephrosia rosea</i> var. <i>clementii</i>	15	10-25%	60 cm		Silver
	<i>Tephrosia supina</i>	1	1-5%	30 cm		aff.
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	1-2	1-5%	30 cm		
	<i>Triodia angusta</i> (Burrup Form)	5	5-10%	60 cm		
	<i>Triodia epactia</i> (Burrup Form)	80	>75%	40 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	10	5-10%	50 cm	B76-2	Felty, green
	<i>Triumfetta clementii</i>	10	5-10%	30 cm		(sm)

Burrup Peninsula Site B077

Described by ASW **Date** 27/05/00

Location = 60 m SE of rockpile on top of west side tidal flat by searipple passage (follow track from B72).

Air Photo **Photo** **on Roll** **AS** **Video** **N** **E** **Photo**

Photo Notes 23- towards Peg 1, 24- overlooking CALM BPBS-1 plot marker post and B077, 25- nearby.

AMG Zone 50 481334mE, 7730100mN 481335mE, 7730029mN

Habitat Essentially flat shell sand surface.

Soil Coarse brown sand with shell grit

Rock Type

Vegetation *Acacia bivenosa*, *Acacia coriacea* subsp. *coriacea* open scrub over *Rhagodia preissii* subsp.

obovata, Threlkeldia diffusa low shrubland with Boerhavia sp. herbland

Veg Condition Very good - (good).

Fire Age

Notes People have been driving through (not the plot) apparently to collect firewood: BPBS drift fence runs into plot and ≥ 1 peg is in it (in faded red tape).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	45	33.3-50%	200 cm	B77-9	glaucous
	Acacia coriacea subsp. coriacea	5-10	5-10%	200 cm	B77-1	
	Adriana tomentosa	2-5	1-5%	120 cm		
	Aerva javanica	+	<1 %	30 cm		
	Amaranthus sp.	>1	1-5%	30 cm	B77-5	
	Boerhavia sp.	40	33.3-50%	50 cm	B77-3	(narrow leaf)
	Cleome viscosa	>2	1-5%	70 cm		
	Euphorbia sp.	2	1-5%	10 cm	B77-7	semi-prostrate
	Euphorbia tannensis subsp. eremophila (Burrup form)	>1	1-5%	50 cm	B77-8	
	Heliotropium tenuifolium	1-2	1-5%	20 cm	B77-10	
	Indigofera monophylla (Burrup form)	+	<1 %	40 cm		
	Paspalidium tabulatum (Burrup Form)	2	1-5%	20-100	B77-13,6	{recorded twice}
	Portulaca pilosa	1	1-5%	20 cm	B77-12	
	Rhagodia preissii subsp. obovata	15	10-25%		B77-4	
	Swainsona formosa	>2	1-5%	60		
	Threlkeldia diffusa	10	5-10%	50 cm	B77-2	

Burrup Peninsula Site B078

Described by ASW **Date** 27/05/00

Location ~200 m up side track from junction near B72. At base of rockpile on W side of track.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 481094mE, 7729241mN 481048mE, 7729224mN

Habitat Steep boulder slope and cliffs.

Soil Reddish brown loamy clay at base of rockpile. Red sandy loam in pockets on rockpile.

Rock Type

Vegetation [Inadequate data recorded for a vegetation description to be completed]

Veg Condition Excellent.

Fire Age

Notes Too dark, no time to finish.

[This site has been left in the dataset but not included in the floristic analysis because the flora list is incomplete.]

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %	150 cm		
	Brachychiton acuminatus	+	<1 %	250 cm		
	Cajanus cinereus	+	<1 %	40 cm		
	Cleome viscosa	+	<1 %	20 cm		
	Commelina ensifolia	+	<1 %	20 cm		
	Cymbopogon ambiguus	+	<1 %	50 cm		
	Euphorbia sp. (site 1163)	+	<1 %	15 cm	B78-1,2	
	Ficus platypoda	+	<1 %	60 cm		Leaves small, thick
	Flueggea virosa subsp. melanthesoides	+	<1 %	250 cm		
	Gomphrena cunninghamii	+	<1 %	5 cm		

Jasminum didymum subsp. lineare	+	<1 %	150 cm	
Mukia maderaspatana	+	<1 %	50 cm	
Paspalidium clementii	+	<1 %	30 cm	
Paspalidium tabulatum (Burrup Form)	+	<1 %	40 cm	
Polycarpaea longiflora (red form)	+	<1 %	30 cm	
Rhagodia eremaea	+	<1 %	110 cm	
Rhynchosia cf. minima	+	<1 %		
Tephrosia sp.B Kimberley Flora(C.A.Gardner 7300)	+	<1 %	100 cm	Narrow leaflets or flat
Terminalia canescens	+	<1 %	300 cm	
Tinospora smilacina	+	<1 %	150 cm	
Trachymene aff. oleracea (B61)	+	<1 %	15 cm	
Trichosanthes cucumerina	+	<1 %	100 cm	
Triodia epactia (Burrup Form)	+	<1 %	30 cm	
Triumfetta appendiculata (Burrup Form)	+	<1 %	40 cm	=B76-2
Triumfetta clementii	+	<1 %	30 cm	(sm)

Burrup Peninsula Site B079

Described by ASW **Date** 28/05/00

Location Slope adjoining 'small' triangular pool, Dampier Salt north side.

Air Photo **Photo** **on Roll** AS **Video** N **E Photo** 130

Photo Notes 00A from Peg 1 towards Peg 2, 0A from corner.

AMG Zone 50 468885mE, 7711237mN 468936mE, 7711280mN

Habitat Medium steep slope with Themeda sp. Burrup (B84) among boulders.

Soil Skeletal fine grainy loam, some clay, dark brown but not chocolate.

Rock Type Pale quartz colour with red tinge outside, coarse blue/grey grain with black flecks inside. Stones-cobbles covering ~70% of surface.

Vegetation Corymbia hamersleyana scattered low trees over Acacia pyrifolia (green), Acacia bivenosa, Ehretia saligna var. saligna high open shrubland over Acacia orthocarpa, Acacia coriacea subsp. coriacea, Scaevola spinescens (narrow form) open shrubland over Corchorus walcottii, Ptilotus obovata var. obovatus, Indigofera monophylla (Burrup form) low shrubland over Themeda sp. Burrup (B84), Triodia epactia (Burrup form), Eriachne mucronata (typical form) tussock/hummock grassland.

Veg Condition (Very good) to excellent.

Fire Age

Notes There is one Brachychiton acuminatus on the upper edge of the plot (it is excluded). The gully NW of the plot (and SE of the same slope next to it) is almost a Low Closed Forest (or High Shrubland) of Terminalia canescens, Brachychiton acuminatus (in upper end), Flueggia virosa, Acacia coriacea subsp. coriacea, Ehretia saligna (upper end) and other species.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	1	1-5%	30 cm	B79-16	
	Acacia bivenosa	2-5	1-5%	250 cm		
	Acacia coriacea subsp. coriacea	2-5	1-5%	150 cm		
	Acacia orthocarpa	5-10	5-10%	110 cm	B79-2	
	Acacia pyrifolia (green)	2-5	1-5%	250 cm		[assumed to be white]
	Alectryon oleifolius	+	<1 %	20 cm	B79-22	
	Boerhavia coccinea	+	<1 %	20 cm		Rough
	Cassia glutinosa	1	1-5%	120 cm		=B9
	Cheilanthes aff. tenuifolia (B18)	1	1-5%	5 cm		
	Corchorus walcottii	> 20	10-25%	50 cm	B79-4,5	= usual, {recorded twice}
	Corymbia hamersleyana	1-2	1-5%	200 cm		
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	40 cm		
	Cymbopogon ambiguus	1	1-5%	60 cm	B79-7	
	Dichrostachys spicata	1	1-5%	120 cm		

<i>Ehretia saligna</i> var. <i>saligna</i>	2-5	1-5%	250 cm		
<i>Eriachne mucronata</i> (typical form)	2-5	1-5%	50 cm	B79-6	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	1	1-5%	10 cm		= usual
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1-2	1-5%	200 cm		
<i>Goodenia microptera</i>	1	1-5%	25 cm		Usual
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	50 cm		
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	20 cm	B79-13	
<i>Hybanthus aurantiacus</i>	1	1-5%	5 cm	B79-11	
<i>Indigofera monophylla</i> (Burrup form)	5	5-10%	40 cm		
<i>Mukia maderaspatana</i>	+	<1 %	15 cm	B79-23	
<i>Nicotiana occidentalis</i> subsp. <i>occidentalis</i>	+	<1 %	10 cm	B79-20	
<i>Paspalidium clementii</i>	1	1-5%	<5 cm	B79-24	
<i>Paspalidium tabularatum</i> (Burrup Form)	1	1-5%	30 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	1	1-5%	15 cm		Herb
<i>Porana commixta</i>	1	1-5%	100 cm	B79-18	
<i>Pterocaulon sphacelatum</i>	+/- 1	<1 %	30 cm		
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	2-5	1-5%		B79-3	
<i>Rhagodia eremaea</i>	1-2	1-5%	120 cm	B79-14	(smells)
<i>Rhodanthe margarethae</i>	+	<1 %	5 cm	B79-21	
<i>Rhynchosia</i> cf. <i>minima</i>	+/- 1	<1 %	10 cm		
<i>Scaevola spinescens</i> (narrow form)	2	1-5%	120 cm	B79-15	
<i>Streptoglossa decurrens</i>	+	<1 %	20 cm	B79-12	
<i>Striga curviflora</i>	+	<1 %	15 cm	B79-10	Buchnera/Striga
<i>Themeda</i> sp. Burrup (B84)	50-60	50-75%	50 cm		Collected marked next
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	15 cm	B79-19	
<i>Triodia epactia</i> (Burrup Form)	5	5-10%	50 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	1-2	1-5%	50 cm		Felty, green
<i>Triumfetta clementii</i>	1-2	1-5%	20 cm		(sm)
<i>Ventilago viminalis</i>	2-5	1-5%	250 cm	B79-1	
<i>Vittadinia virgata</i>	+	<1 %	15 cm	B79-9	
<i>Wahlenbergia</i> sp.	+	<1 %	20 cm	B79-8	

Burrup Peninsula Site B080

Described by ASW **Date** 28/05/00

Location E of B79 on dark rockpile = 2/3 of the way up. 280d from Dampier Salt admin offices, on W side of salt ponds.

Air Photo **Photo** **on Roll** **AS** **Video** **N** **E Photo**

Photo Notes 1A, 2A.

AMG Zone 50 469117mE, 7711375mN 469122mE, 7711434mN 469086mE, 7711426mN 469150mE, 7711412mN

Habitat Steep upper slope and cliff face - upper boundary is near summit, jumbled boulders and outcrop with scattered plants and groups of plants - rather than rockpile pockets of vegetation.

Soil Where visible, a reddish brown loam

Rock Type 4(?) types, see rockpile notes. Over 90% cover.

Vegetation Inadequate data recorded for a vegetation description to be compiled.

Veg Condition Very good to excellent.

Fire Age

Notes

1. The gully to the right of centre of the plot (seen from uphill) has piles, non-red surface rock, but it is mostly the semi, coarse-surfaced rock inside.
2. The plateau west of the upper W corner of the plot (< 50 m) is flat, with *Triodia epactia* (Burrup form) to 50 cm tall, most w/o culms, possibly > 70%.

Rock Pile Notes 1; light quartzly outside, light grey-green coarse grain with black flecks. 2; heavily weathered, pockmarked outside. Very coarse grain, dark grey-green with large dark flecks. 3; weathered tan brown/b

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
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<i>Abutilon fraseri</i>		<1 %	30 cm	B80-2	
<i>Acacia coriacea</i> subsp. <i>coriacea</i>		<1 %	250 cm		
<i>Alectryon oleifolius</i>		<1 %	70 cm		
<i>Boerhavia gardneri</i>		<1 %	30 cm	B80-7	'rough'
<i>Brachychiton acuminatus</i>		<1 %	300 cm		
<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)		<1 %	5 cm		
<i>Cleome viscosa</i>		<1 %	25 cm		
<i>Clerodendrum tomentosum</i>		<1 %	200 cm	B80-1	
<i>Corchorus walcottii</i>		<1 %	30 cm		Usual, =B79-4
<i>Cymbopogon ambiguus</i>		<1 %	50 cm		
<i>Cyperus hesperius</i>		<1 %	50 cm	B80-5	
<i>Ehretia saligna</i> var. <i>saligna</i>		<1 %	300 cm		
<i>Enchylaena tomentosa</i>	+	<1 %	100 cm	B80-10	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>		<1 %	20 cm	B80-6	
<i>Ficus opposita</i> var. <i>aculeata</i>	+	<1 %	100 cm	B80-9	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>		<1 %	300 cm		
<i>Hibiscus goldsworthii</i>		<1 %	90 cm	B80-3	
<i>Ipomoea costata</i>		<1 %	200 cm		
<i>Mukia maderaspatana</i>		<1 %	15 cm		
<i>Nicotiana benthamiana</i>		<1 %	30 cm	B80-4	
<i>Paspalidium tabulatum</i> (Burrup Form)		<1 %	40 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>		<1 %	15 cm		Herb
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>		<1 %	300 cm		
<i>Pterocaulon sphacelatum</i>		<1 %	40 cm		
<i>Ptilotus obovatus</i> var. <i>obovatus</i>		<1 %	60 cm		
<i>Rhagodia eremaea</i>		<1 %	60 cm		
<i>Scaevola spinescens</i> (narrow form)		<1 %	200 cm		
<i>Terminalia canescens</i>		<1 %	350 cm	B80-8	
<i>Tinospora smilacina</i>		<1 %	200 cm		

Burrup Peninsula Site B081

Described by MET **Date** 27/05/00

Location North end of Peninsula (near centre).

Air Photo **Photo** 24 **on Roll** M2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 482956mE, 7729690mN 482909mE, 7729608mN

Habitat Small creek in bottom of valley between two rocky ridges.

Soil Fine to coarse grained pebbly sand between cobbles and boulders.

Rock Type N/R

Vegetation *Eucalyptus victrix* low open woodland over *Terminalia canescens* tall open shrubland over *Tephrosia rosea* var. *clementii* scattered low shrubs over *Triodia angusta* (Burrup form), *Cyperus vaginatus* open grassland/sedgeland with *Sesbania cannabina* tall annual herbland.

Veg Condition Excellent

Fire Age > 10 years

Notes Bed of creek and lower edge of banks recorded. There is a small temporary pool in one braid and a larger one in the main bed.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	+	<1 %	60 cm		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	2.2 m		
	<i>Acacia pyrifolia</i> (slender, white)	+	<1 %	50 cm		cf. (=B67)
	<i>Ammannia baccifera</i>	+	<1 %	15 cm	B81-2	
	<i>Brachychiton acuminatus</i>	+	<1 %	7 cm		Juvenile
	<i>Bulbostylis barbata</i>	+	<1 %	7 cm		Dead
	<i>Cassytha capillaris</i>	+	<1 %	20-40 cm	B81-6	

<i>Corchorus walcottii</i>	+	<1 %	25 cm	B81-3	
<i>Cymbopogon ambiguus</i>	+	<1 %	60 cm		=67
<i>Cyperus bifax</i>	+	<1 %	40-80 cm	B81-1	
<i>Cyperus squarrosus</i>	+	<1 %	5 cm		
<i>Cyperus vaginatus</i>	+/-5	1-5%	60-90 cm		
<i>Dicliptera armata</i>	+	<1 %	35 cm		
<i>Eragrostis tenellula</i>	+	<1 %	25 cm	B81-7	
<i>Eriachne tenuiculmis</i>	+	<1 %	60 cm		
<i>Eucalyptus victrix</i>	<=15%	10-25%	6-9+ m		
<i>Fimbristylis rara</i>	+	<1 %	10 cm		=B67
<i>Indigofera linifolia</i>	+	<1 %	30 cm		
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	90 cm		
<i>Indigofera trita</i>	+	<1 %	20-30 cm		
<i>Ipomoea costata</i>	+	<1 %	90 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	50 cm		
<i>Pluchea rubelliflora</i>	+	<1 %	7 cm		
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	35 cm		
<i>Polymeria calycina</i>	+	<1 %	10 cm	B81-8	
<i>Rhagodia eremaea</i>	+	<1 %	90 cm		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	20 cm	B81-4	Grey, not sticky
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	20 cm	B81-5	Green, sticky
<i>Sesbania cannabina</i>	+/- 10%	5-10%	(0.5) 2-3		Usual
<i>Stemodia grossa</i>	+	<1 %	20 cm		
<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %	40 cm		
<i>Terminalia canescens</i>	+/-2	1-5%	3.5-4+ m		
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	10 cm	B81-9	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	60 cm		
<i>Triodia angusta</i> (Burrup Form)	>=10	10-25%	70 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	10 cm		
<i>Triumfetta clementii</i>	+	<1 %	15 cm		

Burrup Peninsula Site B082

Described by MET **Date** 27/06/00

Location Northern part of the peninsula (near centre).

Air Photo **Photo** 23 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 482826mE, 7729838mN 482864mE, 7729866mN

Habitat Steeply sloping rock pile (boulder scree) on valley side, east facing.

Soil Orange brown loam between cobbles (vegetated patch).

Rock Type Medium grained volcanic

Vegetation *Terminalia canescens* high open shrubland (low open woodland) over *Acacia coriacea* subsp. *coriacea*, *Flueggia virosa* subsp. *melanthesoides* high open shrubland over *Scaevola spinescens* (narrow form), *Rhagodia eremaea* scattered shrubs over *Triodia epactia* (Burrup form), *Triodia angusta* (Burrup form) scattered hummock grasses (patches) with *Rhynchosia* sp. Burrup (82-1C) low lianes and *Dicliptera armata* very open annual herbland (patches).

Veg Condition Excellent

Fire Age >10 years.

Notes The vegetation mostly occurs in dense patches where the shrub cover can be > 50% and the *Rhynchosia* sp. Burrup (82-1C) has cover to > 70% in places (elsewhere only at edges). However one strand of vegetatoin had almost no large shrubs (had dense *Triodia angusta* (Burrup form)/*Rhynchosia* sp. Burrup (82-1C)).

Rock Pile Notes Boulders varied from medium to large, some cobbly areas near base. About 10-15% had soil cover (vegetation on this). Site sampled was part of a steep slope rather than an isolated rockpile.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	20 cm		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.5-2+ m		
	<i>Alectryon oleifolius</i>	+	<1 %	90 cm		
	<i>Boerhavia coccinea</i> (form A)	+	<1 %	40 cm	B82-6	
	<i>Brachychiton acuminatus</i>	+	<1 %	3.5 m		
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	85 cm		
	<i>Clerodendrum tomentosum</i>	+	<1 %	2.5 m	B82-19	
	<i>Commelina ensifolia</i>	+	<1 %	30 cm		
	<i>Commicarpus australis</i>	+	<1 %	1.2 m		
	<i>Corchorus walcottii</i>	+	<1 %	20 cm	B82-16	
	<i>Corymbia hamersleyana</i>	+	<1 %	3-6 m		Lower area only but at
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	60 cm		
	<i>Cymbopogon ambiguus</i>	+	<1 %	50-60 cm	B82-11	
	<i>Cyperus hesperius</i>	+	<1 %	60 cm	B82-5	
	<i>Dicliptera armata</i>	+/-10	5-10%	20-40 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	4.5 m		
	<i>Euphorbia biconvexa</i>	+	<1 %	25 cm	B82-17	
	<i>Ficus platypoda</i> var. D	+	<1 %	60 cm	B82-15	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1-2	1-5%	1.5-2+ m		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	70 cm		
	<i>Indigofera trita</i>	+	<1 %	15 cm		
	<i>Ipomoea costata</i>	+	<1 %	1-1.5 m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	75 cm		
	<i>Melhanian</i> sp. Burrup	+	<1 %	45 cm	B82-2	
	<i>Mukia maderaspatana</i>	+	<1 %	30 cm	B82-18	
	<i>Nicotiana benthamiana</i>	+	<1 %	10 cm	B82-4	?
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	50 cm		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	60 cm	B82-12	
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	40-130	B82-3	
	<i>Rhagodia eremaea</i>	+	<1 %	1.2-2 m		
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	35 cm	B82-9	Grey-green
	<i>Rhynchosia</i> sp. Burrup (82-1C)	>=15	10-25%	20-40 cm	B82-1	Green, sticky
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	0.7-1.6 m	B82-10	
	<i>Solanum horridum</i>	+	<1 %	30 cm	B82-14	
	<i>Terminalia canescens</i>	10-15%	10-25%	1.5-4.5 m		
	<i>Themeda</i> sp. Burrup (B84)	+	<1 %	60 cm	B82-13	
	<i>Tinospora smilacina</i>	+	<1 %	1.4 m		
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	30 cm	B82-8	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	65 cm		
	<i>Triodia angusta</i> (Burrup Form)	+	<1 %	45 cm		
	<i>Triodia epactia</i> (Burrup Form)	+	<1 %	30 cm	B82-7	
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	50 cm		
	<i>Triumfetta clementii</i>	+	<1 %	25 cm		

Burrup Peninsula Site B083

Described by MET **Date** 27/05/00

Location North end of Burrup Peninsula (near centre).

Air Photo **Photo** 22 **on Roll** M2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 482746mE, 7729711mN 482681mE, 7729688mN 482725mE, 7729670mN 482704mE, 7729738mN

Habitat Moderate to steep slope on valley wall +/- ENE facing. Surface cobbly, some small outcrops.

Soil Orange-brown loamy brown sand, pebbly, among cobbles.

Rock Type Medium grained volcanic/igneous; grey.

Vegetation *Corymbia hamersleyana* scattered low trees over *Indigofera monophylla* (Burrup form) low shrubland over *Triodia epactia* (Burrup form) hummock grassland with *Rhynchosia* cf. *minima*

open lianes.

Veg Condition Excellent

Fire Age > 10 years.

Notes More Corymbia on lower slopes below plot. All pegs short pegs.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	15 cm	B83-2	
	Acacia bivenosa	+	<1 %	1.5 m		
	Acacia coriacea subsp. coriacea	+	<1 %	1 m		
	Acacia pyrifolia (slender, white)	+	<1 %	2.1 m	B83-12	Slender stem, prunose,
	Bidens bipinnata	+	<1 %	30 cm	B83-8	
	Boerhavia coccinea (form A)	+	<1 %	45-70 cm	B83-17	Sticky stems
	Boerhavia gardneri	+	<1 %	30 cm	B83-9	
	Bonamia media var. villosa	+	<1 %	2 cm		
	Bulbostylis barbata	+	<1 %	6 cm		
	Cajanus cinereus	+	<1 %	60 cm	B83-21	
	Corchorus walcottii	+	<1 %	45 cm	B83-14	
	Corymbia hamersleyana	+	<1 %	(1.2) 3+ m		
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	45 cm		
	Dichrostachys spicata	+	<1 %	1.5 m		
	Dicliptera armata	+	<1 %	20 cm		
	Eriachne tenuiculmis	+	<1 %	50 cm	B83-19	
	Euphorbia coghlanii	+	<1 %	25 cm	B83-13	
	Euphorbia sp. (site 1163)	+	<1 %	15 cm	B83-18	
	Evolvulus alsinoides var. villosicalyx	+	<1 %	10 cm	B83-11	
	Flueggea virosa subsp. melanthesoides	+	<1 %	1 m		
	Gomphrena cunninghamii	+	<1 %	10-12 cm		
	Goodenia microptera	+	<1 %	35 cm	B83-4	
	Hibiscus sturtii var. campylochlamys	+	<1 %	15 cm	B83-6	
	Hybanthus aurantiacus	+	<1 %	10 cm		
	Indigofera colutea	+	<1 %	15 cm		
	Indigofera linifolia	+	<1 %	30 cm		
	Indigofera monophylla (Burrup form)	>=15	10-25%	40-80 cm	B83-1	
	Indigofera trita	+	<1 %	15 cm		
	Mollugo molluginis	+	<1 %	12 cm		
	Mukia maderaspatana	+	<1 %	70 cm	B83-15,7	{recorded twice}
	Paspalidium tabulatum (Burrup Form)	+	<1 %	35 cm		
	Polycarpaea longiflora (red form)	+	<1 %	35 cm		
	Polymeria calycina	+	<1 %	10-30 cm	B83-20	
	Pterocaulon sphacelatum	+	<1 %	50 cm		Common
	Rhagodia eremaea	+	<1 %	1.4 m		
	Rhynchosia cf. minima	+/-20-2	10-25%	20-40 cm	B83-3	Grey green =B82
	Scaevola spinescens (narrow form)	+	<1 %	1 m		
	Streptoglossa decurrens	+	<1 %	50 cm	B83-10	
	Terminalia supranitifolia	+	<1 %	2.5 m		
	Tinospora smilacina	+	<1 %	40 cm		
	Trachymene aff. oleracea (B61)	+	<1 %	15 cm	B83-16	
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	20-50 cm		
	Triodia angusta (Burrup Form)	+	<1 %	70 cm		In flow area at bottom
	Triodia epactia (Burrup Form)	>=40	33.3-50%	30-60 cm	B83-5	
	Triumfetta clementii	+	<1 %	15-40 cm		

Burrup Peninsula Site B084

Described by MET **Date** 27/05/00

Location Adjacent to Dampier Salt works.

Air Photo

Photo

on Roll

Video

N E Photo

129

Photo Notes

AMG Zone 50 468733mE, 7711282mN 468712mE, 7711291mN 468742mE, 7711253mN 468743mE, 7711269mN

Habitat Rock pile/stabilised boulder scree at end of a small spur from a ridge. Includes some stabilised scree.

Soil Light brown loam (orange brown surface).

Rock Type Almost white fine to medium grained (volcanic?).

Vegetation *Brachychiton acuminatus*, *Corymbia hamersleyana* scattered low trees over *Acacia coriacea* subsp. *coriacea*, *Ipomoea costata*, *Dicrostachys spicata* scattered shrubs over *Corchorus walcottii* scattered low shrubs over *Triodia epactia* (Burrup form), *Themeda* sp. Burrup (B84), *Cymbopogon ambiguus* open hummock/tussock grassland with *Rhynchosia* sp. Burrup (82-1C) very open lianes.

Veg Condition Excellent

Fire Age >5 years, ?>10 years.

Notes Plot not large, shaped to capture rockiest area. The *Triodia* is mostly on less bouldery areas.

Rock Pile Notes Boulders vary from small to quite large. 25-30% soil cover.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	50 cm	B84-18	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<1	<1 %	1.5 m		
	<i>Acacia orthocarpa</i>	+	<1 %	0.8-1.2 m	B84-12	Only on stabilised scree
	<i>Acacia pyrifolia</i> (green)	+	<1 %	1.2-2.6+	B84-13	cf.
	<i>Alectryon oleifolius</i>	+	<1 %	1 m		
	<i>Amaranthus</i> aff. <i>pallidiflorus</i> (D89)	+	<1 %	25 cm	B84-4	Died off.
	<i>Boerhavia coccinea</i> (form A)	+	<1 %	60 cm	B84-24	Sticky
	<i>Boerhavia</i> sp.	+	<1 %	40 cm	B84-16	
	<i>Brachychiton acuminatus</i>	+	<1 %	(0.5)		
	<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)	+	<1 %	10 cm	B84-19	
	<i>Cleome viscosa</i>	+	<1 %	55 cm		
	<i>Corchorus walcottii</i>	+	<1 %	30-40 cm	B84-17	
	<i>Corymbia hamersleyana</i>	+	<1 %	2.8 m		
	<i>Cymbopogon ambiguus</i>	+/-1	1-5%	30-60 cm	B84-1	
	<i>Dichrostachys spicata</i>	+	<1 %	1-2.6 m		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2.4 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	70 cm		
	<i>Eriachne mucronata</i> (typical form)	+	<1 %	40 cm	B84-20	
	<i>Euphorbia</i> sp.	+	<1 %	7 cm	B84-21	
	<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	+	<1 %		B84-	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	30 cm	B84-11	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.8 m		
	<i>Hybanthus aurantiacus</i>	+	<1 %	15-35 cm		Heavily grazed
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	40-60 cm		
	<i>Indigofera trita</i>	+	<1 %	15-40 cm		
	<i>Ipomoea costata</i>	+	<1 %	1-1.6 m		
	<i>Mukia maderaspatana</i>	+	<1 %	65 cm	B84-10	
	<i>Nicotiana benthamiana</i>	+	<1 %	2 cm		Juvenile
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	50 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	20-70 cm	B84-8	
	<i>Pterocaulon sphacelatum</i>	+	<1 %	50 cm		Common species
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	40-70 cm	B84-9	
	<i>Rhagodia eremaea</i>	+	<1 %	80 cm		
	<i>Rhodanthe margarethae</i>	+	<1 %	3 cm	B84-23	
	<i>Rhynchosia</i> sp. Burrup (82-1C)	<5	1-5%	15-50 cm	B84-3	
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %		B84-22	
	<i>Solanum horridum</i>	+	<1 %	15 cm	B84-6	
	<i>Themeda</i> sp. Burrup (B84)	1-2	1-5%	45-65 cm	B84-5	
	<i>Tinospora smilacina</i>	+	<1 %	(10 cm)		
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	10 cm		Juvenile
	<i>Trichosanthes cucumerina</i>	+	<1 %	15 cm		Tricum? Juvenile

Triodia epactia (Burrup Form)	10	5-10%	35-50 cm	B84-2
Triumfetta appendiculata (Burrup Form)	+	<1 %	40-60 cm	
Triumfetta clementii	+	<1 %	35 cm	
Vittadinia virgata	+	<1 %	25 cm	B84-7

Burrup Peninsula Site B085

Described by MET **Date** 27/05/00

Location Adjacent to Dampier Salt evaporating areas.

Air Photo **Photo** 21 **on Roll** M2 **Video** N **E Photo** 131, 132

Photo Notes

AMG Zone 50 469479mE, 7711672mN 469449mE, 7711671mN 469464mE, 7711607mN 469502mE, 7711613mN

Habitat Stabilised cobbly bouldery steep slope, faces SSW.

Soil Brown clayey loam.

Rock Type Volcanic/igneous, medium grained, fairly basic (ca. 50%) dark minerals.

Vegetation Corymbia hamersleyana scattered low trees over Acacia pyrifolia (green) scattered tall shrubs over Acacia orthocarpa scattered shrubs over Themeda sp. Burrup (B84), Triodia epactia (Burrup form) tussock/hummock grassland.

Veg Condition Excellent

Fire Age >5 years, ?>10 years.

Notes Adjacent (on west side of) a rock pile. Plot is a rectangle to avoid larger rock pile. At least 2/3 of surface is cobble. Somewhat less Themeda (and more Triodia) in lower part of plot. Triodia >10% in lower part of plot, <5% in upper part. Acacia ?arida e-photos 135-140 inclusive. Hakea chordiphylla 141,142, at bottom of slope. Rock piles with scattered Brachychiton acuminatus and shrubs.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	30 cm		
	Abutilon lepidum	+	<1 %	50 cm	B85-10	
	Acacia coriacea subsp. coriacea	+	<1 %	1.4 m		Sub rockpile
	Acacia orthocarpa	+	<1 %	0.5-1 m	B85-14	
	Acacia pyrifolia (green)	+	<1 %	30 cm	B85-x	cf. Green slender stems
	Aerva javanica	+	<1 %	70 cm		
	Boerhavia gardneri	+	<1 %	15 cm	B85-7	
	Bonamia media var. villosa	+	<1 %	5 cm		
	Brachychiton acuminatus	+	<1 %	2-3.5 m		Only on rockpiles
	Cajanus cinereus	+	<1 %			
	Cassytha capillaris	+	<1 %	30 cm		
	Corchorus walcottii	+	<1 %	35 cm	B85-6	
	Corymbia hamersleyana	+	<1 %	2.5 m		
	Cymbopogon ambiguus	+	<1 %			
	Cynanchum floribundum	+	<1 %	35 cm	B85-11	3 m across. Sub
	Enchylaena tomentosa	+	<1 %	35 cm	B85-13	
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	20 cm	B85-8	{recorded twice}
	Evolvulus alsinoides var. villosicalyx	+	<1 %	15 cm	B85-9	
	Flueggea virosa subsp. melanthesoides	+	<1 %	1.9 m		Only on rockpiles
	Hibiscus aff. platyklamys (M9-15)	+	<1 %	30 cm	B85-2	
	Indigofera monophylla (Burrup form)	+	<1 %	50 cm		
	Indigofera trita	+	<1 %	15 cm		
	Ipomoea costata	+	<1 %	50 cm		
	Mukia maderaspatana	+	<1 %	35 cm	B85-5	
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	5 cm		Juvenile
	Ptilotus obovatus var. obovatus	+	<1 %	80 cm	B85-15	Only on rockpiles. No
	Rhynchosia cf. minima	+	<1 %	20 cm	B85-12	Not on rock pile. Grey
	Rhynchosia sp. Burrup (82-1C)	+	<1 %	45 cm		Only on rockpiles.

<i>Scaevola spinescens</i> (narrow form)	+	<1 %	70 cm		Only on rockpiles
<i>Solanum horridum</i>	+	<1 %	10 cm	B85-3	90 cm across
<i>Streptoglossa decurrens</i>	+	<1 %	25 cm	B85-1	
<i>Striga curviflora</i>	+	<1 %	15 cm	B85-16	Flowers white or
<i>Terminalia canescens</i>	+	<1 %	3 m		Only on rockpiles
<i>Themeda</i> sp. Burrup (B84)	50-60	50-75%	30-50 cm		=B84
<i>Tinospora smilacina</i>	+	<1 %	1 m		Only on rockpiles
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	20 cm		
<i>Triodia epactia</i> (Burrup Form)	+/-10	10-25%	30-45 cm	B85-4	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	60 cm		
<i>Triumfetta clementii</i>	+	<1 %	15 cm		

Burrup Peninsula Site B090

Described by VLL **Date** 28/05/00

Location White Hill, DSO lease (NW corner of lease).

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 471160mE, 7711928mN 471126mE, 7711903mN

Habitat White granite rock outcrop on the very top of very very steep granite hill. Sample includes SE facing slope and crest. Slope has many outcropping coarse grained granite boulders, crest includes small solid (?) rock outcrop 5 m sq.

Soil

Rock Type

Vegetation *Ficus platypoda* var. *E*, *Flueggea virosa* subsp. *melanthesoides* scattered tall trees to low trees over *Ficus opposita* var. *indecora*, *Acacia coriacea* subsp. *coriacea* scattered shrubs over *Triodia epactia* (Burrup form), *Themeda* sp. Burrup (B84) open hummock/tussock grassland.

Veg Condition

Fire Age

Notes Sample includes near crest on SE slope with outcrops and boulders and also crest with tiny outcrop. Transect 50 m along face of slope then up to crest. Outcrop veg is marked (O) and crest veg. (C) to distinguish it from the vegetation on the slope. Very exposed site

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	30-40 cm	B90-18	
	<i>Abutilon lepidum</i>	+	<1 %		B90-45	
	<i>Acacia coleii</i>	+	<1 %	1 m	B90-9	Broad (O)
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %		B90-9	
	<i>Acacia inaequilatera</i>	+	<1 %	80 cm	B90-14	
	<i>Acacia orthocarpa</i>	+	<1 %	60 cm	B90-13	
	<i>Aerva javanica</i>	+	<1 %	30 cm		
	<i>Alectryon oleifolius</i>	+	<1 %	80-100		(O)
	<i>Alysicarpus muelleri</i>	+	<1 %	20 cm	B90-19	
	<i>Amaranthus interruptus</i>	+	<1 %	3 cm	B90-1	
	<i>Boerhavia coccinea</i> (form B)	+	<1 %		B90-27	
	<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)	+	<1 %	1-10 cm	B90-26,28	(O)
	<i>Cleome viscosa</i>	+	<1 %	35 cm		
	<i>Corchorus walcottii</i>	+	<1 %		B90-21	
	<i>Cullen stipulaceum</i>	+	<1 %	60 cm	B90-7	(C)
	<i>Cymbopogon ambiguus</i>	+	<1 %	45 cm	B90-41	
	<i>Digitaria ctenantha</i>	+	<1 %	35 cm	B90-44	
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	80-100		
	<i>Eriachne</i> sp.	+	<1 %		B90-42	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	15 cm	B90-31	elvals, no name
	<i>Ficus opposita</i> var. <i>aculeata</i>	+	<1 %		B90-5	(C)
	<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	1 m	B90-20	(O) Var.

<i>Ficus platypoda</i> var. E	+	<1 %	2 m	B90-15	(O)
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+		1.5m		
<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
<i>Gossypium australe</i> (Burrup Peninsula form)	+	<1 %	40 cm	B90-37	
<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	1 m		
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	15 cm		(O)
<i>Hybanthus aurantiacus</i>	+	<1 %	25 cm		Heavily grazed
<i>Indigofera colutea</i>	+	<1 %	20 cm	B90-29	
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	25 cm		
<i>Indigofera trita</i>	+	<1 %	15 cm		
<i>Melhania</i> sp. Burrup	+	<1 %	25 cm	B90-17	
<i>Melhania</i> sp. Fortescue (M33-22)	+	<1 %	15-40 cm	B90-35,22	{recorded twice}
<i>Mukia maderaspatana</i>	+	<1 %		B90-6	(C)
<i>Nicotiana benthamiana</i>	+	<1 %	3 cm	B90-25	(O) Juvenile
<i>Paspalidium clementii</i>	+	<1 %	20 cm		
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm	B90-24	
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	25 cm		
<i>Portulaca oleracea</i>	+	<1 %	2 cm	B90-3	
<i>Portulaca oleracea</i>	+	<1 %	3 cm	B90-4	(C)
<i>Portulaca pilosa</i>	+	<1 %	25 cm	B90-33	
<i>Pterocaulon sphacelatum</i>	+	<1 %	1 cm	B90-39	Asteraceae
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	40 cm	B90-32	Slope (O)
<i>Ptilotus spathulatus</i>	+	<1 %	30 cm		Check
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	80 cm		(O)
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	40 cm	B90-38	Scrambling
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %		B90-11	viscid
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	15cm-1.5	B90-8,16,2	(O), aff. {recorded
<i>Sida</i> sp. 'rugose'	+	<1 %	30 cm	B90-34	
<i>Solanum diversiflorum</i>	1	1-5%	30 cm		
<i>Streptoglossa decurrens</i>	+	<1 %			
<i>Swainsona formosa</i>	+	<1 %	40 cm		
<i>Tephrosia supina</i>	+	<1 %	40 cm		Sprawling
<i>Themeda</i> sp. Burrup (B84)	<5%	1-5%	35 cm	B90-40	
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	30 cm	B90-12	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	30 cm		
<i>Triodia epactia</i> (Burrup Form)	5-10	5-10%	40 cm	B90-43	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	40 cm		
<i>Triumfetta clementii</i>	+	<1 %	20 cm		
<i>Vittadinia virgata</i>	+	<1 %	10 cm	B90-30	Asteraceae

Burrup Peninsula Site B091

Described by VLL **Date** 28/05/00 **28 m x72 m**

Location White Hill, S of Dampier Road, N-W cnr of DSO lease on W facing exposed slope.

Air Photo **Photo** 20 **on Roll** F1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 470993mE, 7711925mN 470974mE, 7711965mN 471001mE, 7711973mN

Habitat

Soil Light pinky sandy soil - skeletal.

Rock Type

Vegetation *Acacia coriacea* subsp. *coriacea*, *Scaevola spinescens* (narrow form) scattered shrubs over *Indigofera monophylla* (Burrup form), *Corchorus walcottii*, *Ptilotus obovatus* var. *obovatus* low shrubland over *Themeda* sp. Burrup (B84), *Triodia epactia* (Burrup form) tussock/hummock grassland.

Veg Condition Excellent (rare occurrences of **Cichrus ciliaris* and **Aerva javanica*)

Fire Age N/A

Notes Transect shape and size dictated by available *Themeda* sp. Burrup (B84)/granite boulder slope uninterrupted by rockpiles 28 m x 72 m down slope.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	30 cm	B91-20,17	{recorded twice}
	<i>Abutilon</i> sp.	+	<1 %	5 cm	B91-	(no specimen no.)
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	90 cm	B91-14	terete phyllodes
	<i>Acacia orthocarpa</i>	+	<1 %	45 cm	B91-13	as for B90-13
	<i>Aerva javanica</i>	+	<1 %	80 cm		
	<i>Alysicarpus muelleri</i>	+	<1 %	35 cm	B91-5	
	<i>Amaranthus</i> sp. (D111)	+	<1 %	35 cm	B91-22	
	<i>Boerhavia gardneri</i>	+	<1 %		B91-29	Spreading
	<i>Cajanus cinereus</i>	5	1-5%	30-40 cm		
	<i>Cassia venusta</i>	+	<1 %	35 cm		
	<i>Cenchrus ciliaris</i>	+	<1 %	35 cm		
	<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)	+	<1 %	8 cm	B91-18	
	<i>Cleome viscosa</i>	+	<1 %	40 cm		
	<i>Commelina ensifolia</i>	+	<1 %	30 cm		
	<i>Corchorus walcottii</i>	2	1-5%	30 cm	B91-6	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	25 cm	B91-23	
	<i>Cymbopogon ambiguus</i>	+	<1 %	45 cm		as for B90
	<i>Dichrostachys spicata</i>	+	<1 %	1.5 m		(one only)
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	80 cm		
	<i>Eriachne obtusa</i>	+	<1 %	40 cm	B91-8	
	<i>Euphorbia drummondii</i>	+	<1 %	20 cm		Dead.
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	25 cm	B91-3	
	<i>Gomphrena canescens</i>	+	<1 %	20 cm		
	<i>Goodenia microptera</i>	+	<1 %	35 cm	B91-10	{recorded twice}, see 10
	<i>Gossypium australe</i> (Burrup Peninsula form)	+	<1 %	50 cm	B91-28	
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	30 cm	B91-21,21	<i>sturtii</i> , {recorded twice}
	<i>Hybanthus aurantiacus</i>	+	<1 %	40 cm		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	25-35 cm		
	<i>Melhania</i> sp. Burrup	+	<1 %	30 cm	B91-12B	small shrub
	<i>Mollugo molluginis</i>	+	<1 %	5 cm		
	<i>Mukia maderaspatana</i>	+	<1 %		B91-1	Scrambling
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	15 cm		
	<i>Polycarpaea longiflora</i> (red form)	+	<1 %	30 cm		
	<i>Portulaca pilosa</i>	+	<1 %	15 cm	B90-33	see B90-33
	<i>Pterocaulon sphacelatum</i>	+	<1 %	30 cm		
	<i>Ptilotus fusiformis</i> var. <i>fusiformis</i>	+	<1 %	25 cm	B91-24	
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	5%	5-10%	50 cm	B91-15	
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	40 cm	B91-25	Grey-green
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	1.5 m	B91-26	Viscid, spreading
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1-10 cm	B91-27	
	<i>Sida</i> sp.	+	<1 %	30 cm	B91-	No specimen number
	<i>Solanum diversiflorum</i>	+	<1 %	20 cm		
	<i>Streptoglossa decurrens</i>	+	<1 %	25 cm	B91-16	
	<i>Striga curviflora</i>	+	<1 %	3 cm	B91-11	
	<i>Tephrosia</i> aff. <i>supina</i>	+	<1 %	20-30 cm		
	<i>Themeda</i> sp. Burrup (B84)	40-50	33.3-50%	30-40 cm	B91-4	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	35 cm		
	<i>Triodia epactia</i> (Burrup Form)	10	5-10%	30 cm	B91-7	
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	40 cm		
	<i>Triumfetta clementii</i>	+	<1 %	25 cm		
	<i>Vittadinia virgata</i>	+	<1 %	10-25 cm	B91-19,9	Asteraceae, {recorded
	<i>Waltheria indica</i>	+	<1 %	25 cm	B91-2	

Burrup Peninsula Site B092**Described by** VLL **Date** 28/05/00 80x30x80x30m**Location** High, steep dark brown (gabbro) slopes NW of DSO ringroad.**Air Photo** **Photo** 21 **on Roll** F1 **Video** N **E Photo****Photo Notes****AMG Zone** 50 469365mE, 7711551mN 469306mE, 7711500mN 469317mE, 7711495mN 469361mE, 7711565mN**Habitat** Lower half of steep granite rocky hillslope, *Triodia epactia* (Burrup form) "corridor" before *Themeda* sp. Burrup (B84) begins on higher slope. South facing slope.**Soil** Skeletal, pink-grey and brown sandy soil**Rock Type** Small, medium sized granite (pale orange-pink) 10-25 cm diameter. Very occasional rocks to 80 cm diameter.**Vegetation** *Corymbia hamersleyana* scattered low trees over *Stylidium spathulatum*, *Acacia coriacea* subsp. *coriacea* open shrubland over *Corchorus walcottii* low open shrubland over *Triodia epactia* (Burrup form), *Themeda* sp. Burrup (B84) hummock/tussock grassland.**Veg Condition** Excellent.**Fire Age** N/A**Notes** Shape of quadrat dictated by *Triodia epactia* (Burrup form) corridor along mid-lower slope. 80 (E-W) x 30 (N-S).**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>lepidum</i> (4)	+	<1 %	20 cm	B92-12	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<5%	1-5%	1.25m	B92-22,20	terete phyllodes, broad
	<i>Acacia orthocarpa</i>	+	<1 %	1 m	B92-6	
	<i>Acacia pyrifolia</i> (green)	+	<1 %	1.5 m		Glabrous,
	<i>Acacia stellaticeps</i>	+	<1 %		B92-A	Below B92. E-photos
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	25 cm	B92-15	
	<i>Cassia glutinosa</i>	+	<1 %	60 cm		
	<i>Cassia notabilis</i>	+	<1 %	3 cm	B92-17	Papilionaceae seedling
	<i>Cassytha capillaris</i>	+	<1 %		B92-4	entwined in <i>Triepa</i>
	<i>Corchorus walcottii</i>	10-15%	10-25%	25 cm	B92-2,5	{recorded twice}
	<i>Corymbia hamersleyana</i>	+	<1 %	2 +m	B92-7	
	<i>Euphorbia drummondii</i>	+	<1 %	10 cm		
	<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	+	<1 %	25 cm	B92-13	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	5 cm	B92-11	
	<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	25 cm		
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	20-45 cm	B92-14,3	diseased, {recorded
	<i>Hybanthus aurantiacus</i>	+	<1 %	5 cm		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	25 cm		
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	40 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	30 cm		
	<i>Polygala</i> sp. (M23-2)	+	<1 %	2 cm	B92-16	
	<i>Pterocaulon sphacelatum</i>	+	<1 %	25 cm		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	40 cm	B92-18	
	<i>Sida cardiophylla</i>	+	<1 %	10 cm	B92-21	
	<i>Solanum horridum</i>	+	<1 %	35 cm	B92-10	
	<i>Streptoglossa decurrens</i>	+	<1 %	1-5 cm		
	<i>Stylobasium spathulatum</i>	5-10%	5-10%	1-10 +		
	<i>Themeda</i> sp. Burrup (B84)	5	5-10%	40 cm	B92-9	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	1-35 cm	B92-19,8	??{recorded three
	<i>Triodia epactia</i> (Burrup Form)	40-50%	33.3-50%	30-40 cm	B92-1	
	<i>Triumfetta clementii</i>	+	<1 %	25 cm		

Burrup Peninsula Site B093**Described by** VLL **Date** 28/05/00

Location Deep drainage gully on SE side of Site B92, NW of DSO ringroad.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 469389mE, 7711623mN 469393mE, 7711703mN

Habitat Drainage gully beneath steeply sloping hillside (to E) and rocky hill ridge (to W). Gully S-E facing, drains NW-SE. Well vegetated *Themeda* sp. Burrup (B84), *Terminalia canescens* gully.

Soil

Rock Type Coarse granite-like rock with some quartz veins, pinkish-pale cream brown.

Vegetation *Terminalia canescens*, (*Ehretia saligna* var. *saligna*, *Brachychiton acuminatus*) low woodland over *Themeda* sp. Burrup (B84) tussock grassland.

Veg Condition Excellent. No weeds recorded in drain (but **Aerva javanica* on banks of drain).

Fire Age N/A

Notes Transect along drainage gully.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	20 cm	B93-11	
	<i>Abutilon lepidum</i>	+	<1 %	35 cm	B93-10	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.25	B93-7,12	narrow,broad,{recorded as for B92
	<i>Acacia orthocarpa</i>	+	<1 %	1 m		
	<i>Acacia pyrifolia</i> (green)	+	<1 %	45 cm		var mor? Bright green
	<i>Alectryon oleifolius</i>	+	<1 %	1 m		
	<i>Boerhavia coccinea</i> (form A)	+	<1 %	35 cm	B93-14	Boerhavia/Schom? Sp
	<i>Brachychiton acuminatus</i>	+	<1 %	3 m		
	<i>Corchorus walcottii</i>	+	<1 %	25 cm	B93-5	
	<i>Cymbopogon ambiguus</i>	+	<1 %	801 cm	B93-1	
	<i>Cyperus hesperius</i>	+	<1 %	30 cm	B93-13	
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %			
	<i>Enchylaena tomentosa</i>	+	<1 %	60 cm		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.75		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	40 cm		
	<i>Melhania</i> sp. Burrup	+	<1 %	45 cm	B93-2	
	<i>Mukia maderaspatana</i>	+	<1 %		B93-4	vine
	<i>Porana commixta</i>	+	<1 %		B93-16	scrambling and dense
	<i>Pterocaulon sphacelatum</i>	+	<1 %	20 cm		
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	30 cm		
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	30 cm	B93-3	
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %			Sca aff spi. Glabrous,
	<i>Solanum horridum</i>	+	<1 %	15 cm	B93-6,15	Sol aff hor, {recorded
	<i>Terminalia canescens</i>	5-10	5-10%	(3 cm)	B93-9	(seedling)
	<i>Themeda</i> sp. Burrup (B84)	30-40%	33.3-50%	40 cm		As for B92
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	40 cm		
	<i>Triumfetta clementii</i>	+	<1 %	25 cm		

Burrup Peninsula Site B096

Described by ASW **Date** 29/05/00 **100x2-3 m**

Location Plateau/valley on/in crest of hill next to SW side of salt evaporation ponds, Approx. 50 m W of B080.

Air Photo **Photo** 3A **on Roll** AS **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 469070mE, 7711403mN 469017mE, 7711486mN

Habitat Slight western slope at E end (Peg 1), with fewer and smaller rocks and cracking clay.

Soil Red-brown cracking clay.

Rock Type Coarse gravel <10% of surface, increasing in size to cobbles <50% of surface. Some outcropping.

Vegetation *Acacia coriacea* subsp. *coriacea* high open shrubland over *Indigofera monophylla* (Burrup form), *Triumfetta appendiculata* (Burrup form), *Acacia orthocarpa*, *Hybanthus aurantiacus* low shrubland over *Triodia epactia* (Burrup form) hummock grassland with *Rhynchosia* cf. *minima* very open lianes.

Veg Condition Very good - some weediness.

Fire Age Possibly ca. 1995.

Notes The quadrat excludes main *Ipomoea costata* and everything under its canopy (3 m tall).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<5	1-5%	2 m		
	<i>Acacia orthocarpa</i>	<5	1-5%	1 m		Acaort/amt? Local
	<i>Aerva javanica</i>	+	<1 %	60 cm		
	<i>Boerhavia coccinea</i>	5	5-10%	50 cm		rough
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	10 cm		
	<i>Cassytha capillaris</i>	1	1-5%	10 cm		usual
	<i>Corchorus walcottii</i>	5	5-10%	40 cm		local, usual
	<i>Cymbopogon ambiguus</i>	1	1-5%	1.10 m		
	<i>Dichanthium sericeum</i> subsp. <i>humilius</i>	1	1-5%	5 cm	B96-5	
	<i>Enneapogon caerulescens</i> var. <i>occidentalis</i>	+	<1 %	<10 cm	B96-4	
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	10 cm	B96-2	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	2-5	1-5%	20 cm		=B080
	<i>Gomphrena cunninghamii</i>	1	1-5%	20 cm		
	<i>Hybanthus aurantiacus</i>	+	<1 %			
	<i>Indigofera monophylla</i> (Burrup form)	20-30%	25-33.3%	50 cm		
	<i>Indigofera trita</i>	+	<1 %	20 cm	B96-3	=B26?
	<i>Ipomoea costata</i>	1	1-5%	1 m		
	<i>Malvastrum americanum</i>	+	<1 %	50 cm		
	<i>Mukia maderaspatana</i>	1	1-5%	50 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	15 cm		phyli herb??
	<i>Pterocaulon sphacelatum</i>	+	<1 %	50 cm		
	<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	+	<1 %	10 cm		
	<i>Rhynchosia</i> cf. <i>minima</i>	<5	1-5%	50 cm		dull, usual
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	50 cm		
	<i>Solanum horridum</i>	1	1-5%	10 cm	B96-1	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	1	1-5%	10 cm		
	<i>Triodia epactia</i> (Burrup Form)	70	50-75%	60 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	5-10	5-10%	50 cm		felty, green
	<i>Triumfetta clementii</i>	2-5	1-5%	30 cm		small

Burrup Peninsula Site B151

Described by VLL **Date** 2/06/00 **70 m x 20 m**

Location Drainage zone NE of Hearson Village Road (Syntrolem Feed Pipeline) and corner Burrup Road.

Air Photo **Photo** 18 **on Roll** F3 **Video** N **E Photo**

Photo Notes

AMG Zone 50 476020mE, 7719649mN 476104mE, 7719748mN 476060mE, 7719617mN 476125mE, 7719731mN

Habitat Drainage gully, slightly higher drainage area with *Corymbia hamersleyana*/*Triodia angusta* (Burrup form) on broader outside 'banks' of deeper drainage lines (which is *Eucalyptus victrix* B152 sample).

Soil Alluvial red-brown loam, deep with pebble/stony mantle.

Rock Type Pebbles, stones (grey) with significant calcrete fragments and outcropping calcrete.

Vegetation *Corymbia hamersleyana* low woodland over *Acacia bivenosa* shrubland over *Rhagodia eremaea*, *Scaevola spinescens* (narrow form) low open shrubland over *Triodia angusta* (Burrup form), *Triodia epactia* (Burrup form) hummock grassland.

Veg Condition Good:- Both natural disturbance (water flow) and weed spread from nearby Burrup and Hearson Village roads, water pipeline etc.

Fire Age N/A

Notes Broader drainage area, 20-25 m wide surrounding narrow drainage gullies of B152. Transect 70 m long x 20 m wide.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. lepidum (4)	+	<1 %	30 cm	B151-13	
	Acacia adsurgens	+	<1 %	1.75 m	B151-7	one only
	Acacia bivenosa	15-20%	10-25%	1.5 m	B151-9,10	pruinose,non-pruinose,{
	Acacia elachantha	+	<1 %	45 cm		hairy
	Adriana tomentosa	+	<1 %	80 cm		
	Aerva javanica	2	1-5%			
	Alysicarpus muelleri	+	<1 %	10 cm		
	Ammannia baccifera	+	<1 %	5 cm		low patch
	Boerhavia gardneri	+	<1 %	25 cm	B151-16	
	Cassia glutinosa	+	<1 %	60 cm		
	Cenchrus ciliaris	<2	1-5%	40 cm		
	Chrysopogon fallax	+	<1 %	1 m	B151-8	chyfal - taken as
	Corchorus walcottii	+	<1 %	35 cm	B151-3	
	Corymbia hamersleyana	30-40%	33.3-50%	1.5-2 m		
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	30 cm	B151-15	
	Cyperus squarrosus	+	<1 %	15 cm		low patch
	Enneapogon caerulescens var. occidentalis	+	<1 %		B151-1	
	Eragrostis cumingii	+	<1 %	10-15 cm	B151-17	
	Evolvulus alsinoides var. villosicalyx	+	<1 %	25 cm	B151-5	
	Goodenia microptera	+	<1 %	25 cm		
	Hakea lorea ssp. lorea	+	<1 %	1.25 m		
	Indigofera linifolia	+	<1 %	10-25 cm		{recorded twice}
	Indigofera monophylla (Burrup form)	+	<1 %	35 cm		
	Indigofera trita	+	<1 %	25 cm		
	Jasminum didymum subsp. lineare	+	<1 %	45 cm		
	Mukia maderaspatana	+	<1 %		B151-14	vine
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	30 cm		
	Pluchea ferdinandi-muelleri	+	<1 %	80 cm	B151-4	pruinose var
	Pterocaulon sphacelatum	+	<1 %	25 cm		
	Ptilotus exaltatus var. exaltatus	+	<1 %	5 cm		
	Rhagodia eremaea	<2	1-5%	50 cm		
	Rhynchosia cf. minima	+	<1 %		B151-12	grey-green, spreading
	Rhynchosia sp. Burrup (82-1C)	+	<1 %		B151-11	
	Scaevola spinescens (narrow form)	<2	1-5%	50 cm	B151-2	glabrous
	Streptoglossa decurrens	+	<1 %	25 cm		
	Stylosanthes hamata	+	<1 %	10 cm	B151-6	
	Tephrosia rosea var. clementii	+	<1 %	40 cm		
	Trianthema turgidifolia	+	<1 %	30 cm		
	Triodia angusta (Burrup Form)	30-50%	33.3-50%	80 cm		
	Triodia epactia (Burrup Form)	20	10-25%	40 cm	B151-18	

Burrup Peninsula Site B152

Described by VLL **Date** 2/06/00 **70 m x 10-20 m**

Location Drainage gullies in drainage zone NE of Hearson Village Rd and the corner of Burrup Rd (E of).

Air Photo **Photo** 19 **on Roll** F3 **Video** N **E Photo**

Photo Notes

AMG Zone 50 476046mE, 7719678mN 476064mE, 7719761mN 476035mE, 7719781mN 476088mE, 7719746mN

Habitat Narrow drainage gullies and low drainage areas through broader drainage zone - drainage gullies 2-3 m wide, several flowlines dissecting drainage zone - Eucalyptus victrix woodland.

Soil Deep grey-dark brown alluvial with cobbles and pebbles.
Rock Type Cobbles and pebbles.
Vegetation Eucalyptus victrix low open forest over Acacia bivenosa high shrubland over Triodia angusta (Burrup form), Triodia epactia (Burrup form), Cyperus bifax, Cyperus vaginatus hummock grassland/sedgeland with Stemodia grossa open annual herbland.

Veg Condition Very good - occasional *Aerva javanica and *Cenchrus ciliaris.

Fire Age

Notes Lower drainage zone includes drainlines 'proper' ie cobblestone waterways and low Triodia islands beneath. The drainlines 'proper' and edges 1 m each side sampled.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. lepidum (4)	+	<1 %	25 cm		as for 151
	Acacia bivenosa	10-20%	10-25%	2 m		
	Alectryon oleifolius	+	<1 %	1.25		
	Ammannia baccifera	+	<1 %	15 cm		
	Cenchrus ciliaris	+	<1 %	40 cm		
	Chrysopogon fallax	+	<1 %	1 m		chyfal? Taken as
	Corchorus walcottii	+	<1 %	35 cm		as for B151
	Cyperus bifax	20-30%	25-33.3%	1 m		
	Cyperus squarrosus	+	<1 %	10 cm		
	Cyperus vaginatus	10	5-10%	60 cm		
	Ehretia saligna var. saligna	+	<1 %	1 m		
	Eriachne tenuiculmis	2	1-5%	35-45 cm	B152-5	
	Eucalyptus victrix	30-40%	33.3-50%	3-5 m		
	Fimbristylis rara	+	<1 %	3 cm	B152-2	
	Grevillea pyramidalis subsp. pyramidalis	2-5	1-5%	1.1 m		
	Indigofera monophylla (Burrup form)	+	<1 %	45 cm		
	Leptopus decaisnei var. decaisnei	+	<1 %	25 cm	B152-3	
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	20 cm		{recorded twice}
	Pluchea rubelliflora	+	<1 %	10 cm	B152-1	Asteraceae
	Rhynchosia sp. Burrup (82-1C)	+	<1 %			viscid, see 151
	Scaevola spinescens (narrow form)	+	<1 %	35 cm		glabrous, lime green
	Sesbania cannabina	+	<1 %	1.5 m		
	Stemodia grossa	20	10-25%	45 cm	B152-4	
	Swainsona formosa	+	<1 %	35 cm		
	Tephrosia rosea var. clementii	+	<1 %	45 cm		
	Triodia angusta (Burrup Form)	20-30%	25-33.3%	60 cm		
	Triodia epactia (Burrup Form)	10-20	10-25%	40 cm		as B151

Burrup Peninsula Site B154

Described by ASW **Date** 2/06/00

Location E side of Withnell Bay Peninsula.

Air Photo **Photo** 00A **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 478084mE, 7725184mN

Habitat Small, bouldery rockpile with moderately steep slopes.

Soil Brown sandy loam. Some finer clay particles present, <20%. Total soil cover <5%.

Rock Type Medium/fine grained boulders, some outcropping at top.

Vegetation Inadequate data recorded for a vegetation description to be compiled.

Veg Condition

Fire Age

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	<1 %				
	Alectryon oleifolius	<1 %				
	Brachychiton acuminatus	<1 %		2 m		
	Cymbopogon ambiguus	<1 %				
	Cynanchum floribundum	<1 %				
	Flueggea virosa subsp. melanthesoides	<1 %				
	Gossypium australe (Whim Creek form)	<1 %				recollect
	Ipomoea costata	<1 %				
	Jasminum didymum subsp. lineare	<1 %				
	Mukia maderaspatana	<1 %				
	Paspalidium tabulatum (Burrup Form)	<1 %				
	Pterocaulon sphacelatum	<1 %				usual
	Rhagodia eremaea	<1 %				
	Rhynchosia cf. minima	<1 %				
	Solanum horridum	<1 %			B154-2	
	Stylobasium spathulatum	<1 %				On rockpile!
	Tinospora smilacina	<1 %				
	Trachymene aff. oleracea (B61)	<1 %		40 cm	B154-1	in flower
	Trichodesma zeylanicum var. zeylanicum	<1 %				
	Trichosanthes cucumerina	<1 %				
	Triodia epactia (Burrup Form)	<1 %				
	Triumfetta appendiculata (Burrup Form)	<1 %				Felty green?
	Triumfetta clementii	<1 %				

Burrup Peninsula Site B155**Described by** ASW **Date** 2/06/00**Location** Rockpile ENE of B154, 450 m S of head of Withnell Bay on W side.**Air Photo** **Photo** 3A **on Roll** AS **Video** N **E Photo****Photo Notes****AMG Zone** 50**Habitat** Small rockpile without soil and with moderately steep, bouldery slope.**Soil** Well mulched, mostly loose brown sandy loam <1% soil cover.**Rock Type** Medium/fine grained granite?**Vegetation** Inadequate data recorded for a vegetation description to be compiled.**Veg Condition** Excellent**Fire Age** ?**Notes** Exclude edge, only one peg.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Alectryon oleifolius	<1 %		0.5 m		
	Brachychiton acuminatus	<1 %		2 m		
	Capparis spinosa var. nummularia	<1 %		0.6 m		Caps, taken as
	Cymbopogon ambiguus	<1 %		0.5 m		
	Ehretia saligna var. saligna	<1 %		3.5 m		
	Ficus opposita	<1 %		1 m		edge
	Ipomoea costata	<1 %		1.5 m		edge
	Mukia maderaspatana	<1 %		0.5 m		
	Rhagodia eremaea	<1 %		1 m		
	Tinospora smilacina	<1 %		1.5 m		

Burrup Peninsula Site B157

Described by ASW **Date** 2/06/00

Location Triodia areas in B156.

Air Photo **Photo** Y **on Roll** AS **Video** N **E Photo**

Photo Notes 5A, 6A (Both from rockpile 250 degrees to Peg 1), 7A.

AMG Zone 50 478527mE, 7726058mN 478494mE, 7725999mN

Habitat Bouldery, grassy gentle to moderately steep slope.

Soil Skeletal red clay loam, approx. 5% visible.

Rock Type Cobbles of medium/fine grain. Cover approx. 80%. Outcrops of same material approx. 10%.

Vegetation Acacia colei, Cullen pustulatum high open shrubland over Indigofera monophylla (Burrup form), Triumfetta appendiculata (Burrup form) low shrubland over Cymbopogon ambiguus, Triodia epactia (Burrup form), Cymbopogon ambiguus hummock/tussock grassland with Rhynchosia cf. minima very open lianes.

Veg Condition Excellent

Fire Age

Notes Plots B156 and B157 are the same site, but B156 is rockpiles and their vegetation and B157, this plot, is non rockpile, the grassy part.

There is 1 1.2 m tall Acacia coriacea subsp. coriacea(?) (narrow) shrub below/near plot among more A coriacea(?) (broad) shrubs.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia colei	5-10	5-10%	2.5 m		Broad
	Ammannia baccifera	+	<1 %			creek only
	Bonamia media var. villosa	+/-1	<1 %	20 cm		hairy, usual
	Cajanus cinereus	1-2	1-5%	70 cm		
	Cassia venusta	+	<1 %	50 cm	B157-3	creek only
	Cassytha capillaris	2-5	1-5%	40 cm	B157-7,12	usual, short
	Cleome viscosa	+	<1 %	60 cm		
	Cullen badocanum	+	<1 %			
	Cullen pustulatum	2	1-5%	2 m	B157-1	
	Cymbopogon ambiguus	>30	25-33.3%	60 cm		
	Cyperus squarrosus	+/-1	<1 %	10 cm	B157-4	sedge, creek only
	Dicliptera armata	1-2	1-5%	70 cm		creek only
	Euphorbia coghlanii	1-2	1-5%	30 cm	B157-6	
	Evolvulus alsinoides var. villosicalyx	+/-2	1-5%	10 cm		hairy, usual
	Goodenia microptera	+	<1 %			
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	50 cm		
	Hibiscus sturtii var. campylochlamys	+	<1 %	40 cm	B157-8	
	Indigofera monophylla (Burrup form)	>10	10-25%	60 cm		
	Jasminum didymum subsp. lineare	1	1-5%	60 cm		
	Mukia maderaspatana	+/-1	<1 %	30 cm		
	Paspalidium clementii	+	<1 %		B157-13	grass
	Phyllanthus maderaspatensis var. angustifolius	1-2	1-5%	70 cm		herb
	Pluchea dentex	+	<1 %		B157-5	creek only
	Plumbago zeylanica	+	<1 %	30 cm	B157-10	
	Pterocaulon sphacelatum	1-2	1-5%	50 cm		usual
	Rhynchosia cf. minima	10	5-10%	60 cm		
	Solanum horridum	1	1-5%	20 cm	B157-9	
	Stemodia grossa	+	<1 %	40 cm	B157-2	toothed
	Tephrosia aff. densa (B17)	+	<1 %	15 cm	B157-11	large
	Trichodesma zeylanicum var. zeylanicum	1-2	1-5%	60 cm		
	Triodia angusta (Burrup Form)	2	1-5%	60 cm		
	Triodia epactia (Burrup Form)	>30	25-33.3%	40 cm		
	Triumfetta appendiculata (Burrup Form)	>10	10-25%	60 cm		Felty, green? White?
	Triumfetta clementii	+	<1 %	15 cm		

Burrup Peninsula Site B159**Described by** ASW **Date** 2/06/00**Location** WNW side of Withnell Bay Peninsula, in dunes.**Air Photo** **Photo** Y **on Roll** AS **Video** N **E Photo****Photo Notes** 8A, 11A (towards Peg 1 from Peg 2)**AMG Zone** 50 477978mE, 7726476mN 478067mE, 7726443mN**Habitat** Moderately steep sand dune slopes.**Soil** Light brown/orange sand. Shell grit present.**Rock Type** Outcrops of medium to coarse gain rock, dark blue/black with mauve and quartz flecks inside.**Vegetation** Adriana tomentosa low shrubland over Spinifex longifolius, (Triodia epactia (Burrup form)) open hummock grassland.**Veg Condition** Very good - excellent.**Fire Age****Notes** The width of the transect is determined by the occurrence of Spinifex. Sometimes it is wider, often no more than 20 m.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Adriana tomentosa	>10	10-25%	<50 cm		
	Amaranthus pallidiflorus	1	1-5%	20 cm		
	Boerhavia sp.	>2	1-5%	15 cm		
	Cassytha capillaris	>2	1-5%	20 cm		
	Cleome viscosa	2	1-5%	30 cm		dead
	Cleome viscosa	+	<1 %	20 cm	B159-5	Crucifer, dead
	Corchorus walcottii	+	<1 %	30 cm		usual
	Euphorbia coghlani	2-5	1-5%	10 cm	B159-1	
	Euphorbia tannensis subsp. eremophila (Burrup form)	1	1-5%	40 cm	B159-3,1B	{recorded twice}
	Pterocaulon sphacelatum	1-2	1-5%	60 cm		usual
	Ptilotus villosiflorus	+/-1	<1 %	15 cm	B159-4	
	Spinifex longifolius	10-30	10-25%	1 m		
	Swainsona pterostylis	2-5	1-5%	30 cm		red
	Triodia epactia (Burrup Form)	2-5	1-5%	30 cm		

Burrup Peninsula Site B160**Described by** ASW **Date** 2/06/00**Location** Slope of valley at S end of Withnell Bay Peninsula.**Air Photo** **Photo** 12A **on Roll** AS **Video** N **E Photo****Photo Notes****AMG Zone** 50 477254mE, 7724873mN 477306mE, 7724956mN**Habitat** Moderately to, mainly, very steep slopes of loose boulders and cliffs with, mainly, small patches of vegetation.**Soil** Skeletal, red, fine clayey soil with medium-coarse gravel.**Rock Type** Medium-fine grain blue/black rocks and outcrops. Boulders angular, platy or blocky.**Vegetation** Ficus virens, Ficus platypoda and Terminalia supranitifolia, Brachychiton acuminatus scattered low trees over Flueggia virosa subsp. melanthesoides, Rhagodia eremaea, Scaevola spinescens (narrow form) scattered tall shrubs over Acacia coriacea subsp. coriacea, Alectryon oleifolius scattered shrubs over Cymbopogon ambiguus scattered tussock grasses.**Veg Condition** Excellent.**Fire Age****Notes** See notebook. The sandy SE tip of Withnell Bay Peninsula (see field notes '160A') had a vegetation cover of Scaevola cunninghamii low open heath over Triodia epactia (Burrup form) open hummock grassland on a gently sloping shell sand dune.

Scaevola thesioides ssp. *thesioides* was near this plot.

Rock Pile Notes Exclude the lower edge, including the Terminalia.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coleii</i>	+	<1 %	90 cm		aca c broad
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.5m		
	<i>Alectryon oleifolius</i>	+	<1 %	1 m		
	<i>Amaranthus</i> aff. <i>pallidiflorus</i> (D89)	+	<1 %	10 cm	B160-3	
	<i>Boerhavia coccinea</i>	+	<1 %	30 cm		
	<i>Brachychiton acuminatus</i>	+	<1 %	2.5 m		
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	30 cm		Cap num sp, taken as
	<i>Cymbopogon ambiguus</i>	+	<1 %	50 cm		
	<i>Cyperus hesperius</i>	+	<1 %	30 cm	B160-1	
	<i>Ficus platypoda</i>	+	<1 %	2 m		
	<i>Ficus virens</i> var. <i>sublanceolata</i>	+	<1 %	2.5 m		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	3 m		
	<i>Ipomoea costata</i>	+	<1 %	20 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	1.5 m		
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	20 cm	B160-2	
	<i>Phyllanthus ciccoides</i>	+	<1 %	1.5 m		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	30 cm		usual
	<i>Rhagodia eremaea</i>	+	<1 %	2 m		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	2 m		
	<i>Solanum horridum</i>	+	<1 %	20 cm		=156/7
	<i>Terminalia supranitifolia</i>	+	<1 %	2.5 m		
	<i>Tinospora smilacina</i>	+	<1 %	1.5 m		
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	1.2 m		

Burrup Peninsula Site B162

Described by VLL **Date** 2/06/00 **Size** 40 x 70 m

Location Talu Valley - valley beneath talu site ~700 m south of Burrup Road.

Air Photo **Photo** 20 **on Roll** F3 **Video** N **E Photo**

Photo Notes

AMG Zone 50 476506mE, 7720299mN 476494mE, 7720225mN 476520mE, 7720271mN 476464mE, 7720251mN

Habitat Disturbed valley between two N-S parallel rock ridges (Talu site on north side). The corridor was originally an old woodside access track but has revegetated well with *Triodia angusta*, *Acacia bivenosa* and *A. orthocarpa*. *Corymbia* probably never destroyed.

Soil Paly grey-brown sandy loam with stones and calcrete material. Looks imported - doesn't match surrounding red rock profile.

Rock Type

Vegetation *Corymbia hamersleyana* low woodland over *Acacia inaequilatera* high open shrubland over *Acacia bivenosa*, *Cassia glutinosa*, *Grevillea pyramidalis* subsp. *pyramidalis* shrubland over *Indigofera monophylla* (Burrup form) low open shrubland over *Triodia angusta* (Burrup form), *Triodia epactia* (Burrup form), *Chrysopogon fallax* hummock/tussock grassland.

Veg Condition Very good, occasional Kapok and Buffel.

Fire Age N/A

Notes Soil Notes cont: Could have some marine sand - shell fragments in dirt. Undisturbed red-brown alluvial soil with small red-brown stones and calcrete some with black algal mat. Marine sand was used on other WEL borrow area.
Disturbed area of transect =10 m wide x 70 m long. *D denotes area disturbed for old access track, otherwise area under *Corymbia*.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	30 cm	B162-5	

<i>Abutilon lepidum</i>	+	<1 %	25 cm	B162-16	D
<i>Acacia bivenosa</i>	20%	10-25%	1 m		D, undisturbed, grey
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<2	1-5%	30 cm		
<i>Acacia inaequilatera</i>	10%	10-25%	1.5 m	B162-3	
<i>Acacia orthocarpa</i>	+	<1 %	1.1 m		D
<i>Aerva javanica</i>	<6	5-10%	30-45 cm		D
<i>Boerhavia gardneri</i>	+	<1 %	35 cm	B162-6	
<i>Brachychiton acuminatus</i>	+	<1 %	75 cm		Seedlings
<i>Bulbostylis barbata</i>	+	<1 %	15 cm		
<i>Cassia glutinosa</i>	<2	1-5%	1 m		
<i>Cenchrus ciliaris</i>	+	<1 %	30-40 cm		D
<i>Chrysopogon fallax</i>	20%	10-25%	80 cm	B162-21	Chyfal? No name
<i>Corchorus walcottii</i>	+	<1 %	25 cm	B162-12	
<i>Corymbia hamersleyana</i>	25-30%	25-33.3%	2-3 m		
<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	25 cm	B162-15	
<i>Cynanchum floribundum</i>	+	<1 %	45 cm		Sterile vine
<i>Dichrostachys spicata</i>	+	<1 %	1 m		
<i>Dicliptera armata</i>	+	<1 %	30 cm		
<i>Digitaria ctenantha</i>	+	<1 %	35 cm		
<i>Eragrostis cumingii</i>	+	<1 %	25 cm	B162-2	
<i>Euphorbia biconvexa</i>	+	<1 %	25 cm	B162-18	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	35 cm	B162-17	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10 cm		D (Elvals no
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1 m		
<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		{recorded twice}
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	2	1-5%	1 m		
<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	1.25 m		
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	20 cm	B162-10	
<i>Indigofera colutea</i>	+	<1 %	20 cm		D
<i>Indigofera linifolia</i>	+	<1 %	25 cm		
<i>Indigofera monophylla</i> (Burrup form)	5	5-10%	40 cm		{recorded twice}
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	35-45 cm		
<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	25 cm		
<i>Malvastrum americanum</i>	+	<1 %	30 cm		
<i>Melhania</i> sp. <i>Fortescue</i> (M33-22)	+	<1 %	25 cm	B162-9	D
<i>Mukia maderaspatana</i>	+	<1 %		B162-7	Spreading
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm	B162-8	
<i>Pluchea tetranthera</i>	+	<1 %	35 cm	B162-1	
<i>Pterocaulon sphacelatum</i>	+	<1 %	25 cm		D, {recorded twice}
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	+	<1 %	30 cm		
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	1 m		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %		B162-4	Grey green, sprawling
<i>Sesbania cannabina</i>	+	<1 %	1.75 m		D
<i>Sida</i> aff. <i>fibulifera</i> (oblong; MET 15 220)	+	<1 %	20 cm	B162-19	D
<i>Solanum horridum</i>	+	<1 %	25 cm	B162-13	
<i>Streptoglossa decurrens</i>	+	<1 %	25 cm		
<i>Stylidium fluminense</i>	+	<1 %			Out of plot.
<i>Swainsona formosa</i>	+	<1 %	25 cm		D
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	40 cm	B162-14	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	45 cm		
<i>Triodia angusta</i> (Burrup Form)	20%	10-25%	40-45 cm		D
<i>Triodia epactia</i> (Burrup Form)	30%	33.3-50%	30-45 cm	B162-20	D
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	3 cm		D
<i>Triumfetta clementii</i>	+	<1 %	10-20 cm		D, {recorded twice}
<i>Vigna lanceolata</i> var. <i>lanceolata</i>	+	<1 %		B162-11	

Burrup Peninsula Site B163

Described by VLL

Date

2/06/00

5 x 100 m

Location Approximately 800 m to 1 km east of Burrup Road. High rock gully 5 km north of Talu Valley.

Air Photo **Photo** 21 **on Roll** F3 **Video** N **E Photo**

Photo Notes

AMG Zone 50 476865mE, 7720424mN 476899mE, 7720402mN

Habitat Flat narrow grassed drainage - valley, 4 m wide through rockpiles on upper slopes.

Soil Red sandy loam

Rock Type Medium sized red-brown fine grained rhyadocite.

Vegetation *Brachychiton acuminatus*, *Terminalia supranitifolia* scattered low trees over *Dichrostachys spicatus*, *Acacia coriacea* subsp. *coriacea*, *Flueggea virosa* ssp. *melanthesioides* high open shrubland over *Triodia epactia* (Burrup form), *Cymbopogon ambiguus*, *Cyperus bifax* hummock/tussock grassland/sedgeland with *Dicliptera armata* open herbland.

Veg Condition Excellent, no weeds.

Fire Age N/A

Notes High narrow *Dichrostachys spicata* (tall shrubs) gully - flat gully.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	30 cm	B163-9	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	1%	1-5%	1 m	B163-6	
	<i>Brachychiton acuminatus</i>	+	<1 %	1 m		
	<i>Chrysopogon fallax</i>	+	<1 %		B163-10	
	<i>Cymbopogon ambiguus</i>	10-15%	10-25%	1 m	B163-1	
	<i>Cynanchum floribundum</i>	+	<1 %			Vine
	<i>Cyperus bifax</i>	<5%	5-10%	1 m		
	<i>Cyperus squarrosus</i>	+	<1 %	15 cm		
	<i>Dichrostachys spicata</i>	<5%	1-5%	1.5-2 m		
	<i>Dicliptera armata</i>	10%	5-10%	30-35 cm		
	<i>Eragrostis tenellula</i>	+	<1 %	15 cm	B163-7	?
	<i>Flueggea virosa</i> subsp. <i>melanthesioides</i>	<5%	1-5%	2 m		
	<i>Gomphrena cunninghamii</i>	+	<1 %	10 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1 m		
	<i>Ipomoea costata</i>	+	<1 %	1.25 m		
	<i>Mukia maderaspatana</i>	+	<1 %			Vine
	<i>Pluchea dentex</i>	+	<1 %	35 cm	B163-8	Sterile/strepta
	<i>Pluchea rubelliflora</i>	+	<1 %	15 cm	B163-6	
	<i>Pterocaulon sphacelatum</i>	+	<1 %	35 cm		
	<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	1.25 m		
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %			Creeper, grey green
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %			Viscid creeper
	<i>Scaevola spinescens</i> (narrow form)	1%	1-5%	1 m		Bright green glabrous
	<i>Solanum horridum</i>	+	<1 %	20 cm	B163-2	
	<i>Streptoglossa decurrens</i>	+	<1 %	35 cm		
	<i>Terminalia supranitifolia</i>	1%	1-5%	1 m		
	<i>Tinospora smilacina</i>	+	<1 %			Vine
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	35-40 cm	B163-4	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	45 cm		
	<i>Triodia epactia</i> (Burrup Form)	30-40%	33.3-50%	40 cm	B163-3	
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	35 cm		{recorded twice}

Burrup Peninsula Site B164

Described by VLL **Date** 2/06/00

Location Rockpiles behind SE most end of Holden Beach Bay (NE of saline flat area and N of Chinamans Gully).

Air Photo **Photo** 22 **on Roll** F3 **Video** N **E Photo** 253

Photo Notes

AMG Zone 50 474930mE, 7720552mN 475008mE, 7720582mN
Habitat Vertical red brown rhyadocite rocks, blocks and vertical platey rock, westward facing.
Soil Red-brown sandy loam in pockets beneath rocks.
Rock Type Red-brown fine grained rhyadocite, blocks and vertical platey rock.
Vegetation Brachychiton acuminatus, Pittosporum phylliraeoides var. phylliraeoides, Terminalia supranitifolia low open woodland over Scaevola spinescens (narrow form), Rhagodia eremaea, Acacia coriacea subsp. coriacea open shrubland over scattered Cymbopogon ambiguus.
Veg Condition Excellent, no weeds.
Fire Age N/A
Notes Vegetation sampled is on rockpile "pockets", does not include narrow Triodia corridors beneath piles.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	25 cm	B164-1	
	Acacia coriacea subsp. coriacea	2-3%	1-5%	1 m	B164-9	
	Aerva javanica	+	<1 %	45 cm		
	Alectryon oleifolius	+	<1 %	1.25 m		
	Amaranthus sp. (D111)	+	<1 %	25 cm	B164-5	
	Boerhavia gardneri	+	<1 %		B164-11	
	Brachychiton acuminatus	<5%	1-5%			
	Cassia glutinosa	<1%	<1 %	1 m		
	Cleome viscosa	+	<1 %	30 cm		
	Cymbopogon ambiguus	<1%	<1 %		B164-2	
	Cyperus hesperius	+	<1 %	80 cm		
	Dichrostachys spicata	2-3%	1-5%	1.25 m		
	Enchylaena tomentosa	+	<1 %	1 m	B164-4	
	Euphorbia sp. (site 1163)	+	<1 %	30 cm	B164-6	
	Flueggea virosa subsp. melanthesoides	+	<1 %	2 m		
	Mukia maderaspatana	+	<1 %			Vine
	Paspalidium tabulatum (Burrup Form)	+	<1 %	30 cm		
	Pittosporum phylliraeoides var. phylliraeoides	<5%	1-5%	2 m		
	Plumbago zeylanica	+	<1 %	1 m		
	Portulaca oleracea	+	<1 %	2 cm	B164-12	
	Rhagodia eremaea	3-5%	1-5%	1.75 m	B164-7	
	Rhynchosia sp. Burrup (82-1C)	+	<1 %			Creeper, viscid
	Scaevola spinescens (narrow form)	3-5	1-5%	1 m		Glossy bright green
	Solanum horridum	+	<1 %	35 cm	B164-8	
	Terminalia supranitifolia	3-5%	1-5%	1.75 m		
	Tinospora smilacina	+	<1 %			Vine
	Trachymene aff. oleracea (B61)	+	<1 %	25 cm	B164-10	
	Triodia epactia (Burrup Form)	+	<1 %	30 cm	B164-3	
	Triumfetta appendiculata (Burrup Form)	+	<1 %	35 cm		
	Triumfetta clementii	+	<1 %	25 cm		

Burrup Peninsula Site B165

Described by VLL **Date** 2/06/00

Location Upper Triodia slope, west side coast, ~ 700 m NE of western Stevedore yard and 500 m up from saline flat end of Holden Beach.

Air Photo **Photo** 25 **on Roll** **Video** N **E Photo**

Photo Notes Photo 25 looking N.

AMG Zone 50

Habitat S-W facing gentle upper slope between rockpiles and rock outcrops.

Soil Red-brown sandy loam.

Rock Type Rocks on site medium 25-70 cm diameter scattered over smaller 10-20 cm rocks.

Vegetation Cullen pustulatum scattered tall shrubs over Acacia coriacea subsp. coriacea scattered shrubs over Indigofera monophylla (Burrup form), Acacia colei low shrubland over Triodia epactia (Burrup form), Cymbopogon ambiguus hummock/tussock grassland.

Veg Condition Excellent.

Fire Age N/A

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	25 cm	B165-7	
	Acacia colei	< 2	1-5%	50 cm	B165-13	
	Acacia coriacea subsp. coriacea	+	<1 %	1 m	B165-9	
	Boerhavia gardneri	+	<1 %		B165-14	Spreading
	Bonamia media var. villosa	+	<1 %	30 cm-3m	B165-4,6	Trailing, {recorded
	Bulbostylis barbata	+	<1 %	1-5 cm	B165-2	
	Cajanus cinereus	+	<1 %	35 cm		
	Cassytha capillaris	+	<1 %		B165-5	Spreading
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	25 cm	B165-17	tri/med
	Cullen badocanum	< 2	1-5%	2.5 m	B165-8	
	Cymbopogon ambiguus	5-10%	5-10%	1 m	B165-15	
	Cynanchum floribundum	+	<1 %	25 cm	B165-1	Glabrous, juvenile
	Enchylaena tomentosa	+	<1 %	35 cm		
	Euphorbia coghlanii	+	<1 %	25 cm		
	Evolvulus alsinoides var. villosicalyx	+	<1 %	15 cm		elvals
	Gomphrena cunninghamii	+	<1 %	20 cm		
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	30 cm		
	Hibiscus sturtii var. campylochlamys	+	<1 %	15 cm	B165-11	
	Hybanthus aurantiacus	+	<1 %	15 cm		
	Indigofera monophylla (Burrup form)	15-20%	10-25%	30-40 cm		
	Mollugo molluginis	+	<1 %	20 cm		
	Mukia maderaspatana	+	<1 %			Creeper
	Pluchea tetranthera	+	<1 %	70 cm	B165-12	Glabrous
	Pterocaulon sphacelatum	+	<1 %	10 cm		
	Ptilotus fusiformis var. fusiformis	+	<1 %	25 cm	B165-3	
	Solanum horridum	+	<1 %	40 cm	B165-10	Spreading
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	45 cm		
	Triodia epactia (Burrup Form)	40-50%	33,3-50%	20-30 cm	B165-16	
	Triumfetta appendiculata (Burrup Form)	+	<1 %	30 cm		
	Triumfetta clementii	+	<1 %	20 cm		

Burrup Peninsula Site B166

Described by VLL **Date** 3/06/00

Location SE side of Syntrolem site (maybe just outside lease boundary).

Air Photo **Photo** 26 **on Roll** F3 **Video** Y **E Photo** 265, 266

Photo Notes

AMG Zone 50 475600mE, 7717628mN 475565mE, 7717629mN 475578mE, 7717543mN

Habitat Very gentle slope down toward saline flat area (SE-NW) from higher rocky slopes. Areas is between drainage zone at foot of hills south side and drainage gully north side.

Soil Brown sandy colluvial soil - part of colluvial fan associated with drainage lines from higher slopes.

Rock Type Red-grey stones and rocks 10-30 cm diameter.

Vegetation Corymbia hamersleyana scattered low trees over Grevillea pyrimidalis subsp. pyramidalis shrubland to open heath over Corchorus walcottii, Triumfetta appendiculata (Burrup form), Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300) low shrubland to low open heath over Triodia epactia (Burrup form), Eriachne obtusa hummock/tussock grassland.

Veg Condition Excellent, no weeds.

Fire Age N/A

Notes Rare vegetation type with relatively dense *Grevillea pyramidalis* subsp. *pyramidalis* heath.
Relatively protected site (from winds) being low and surrounded by hillslopes. Good colluvial soil (part of wider colluvial fan system).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	25 cm	B166-11	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1-1.75 m	B166-6,7	Broad,Narrow,{recorded
	<i>Acacia pyrifolia</i> (green)	<2	1-5%	1.25 m		Bright green
	<i>Alysicarpus muelleri</i>	+	<1 %	20 cm	B166-16	alynig? No name
	<i>Boerhavia coccinea</i> (form A)	+	<1 %		B166-3A	
	<i>Boerhavia coccinea</i> (form B)	+	<1 %	30 cm	B166-3B	
	<i>Brachychiton acuminatus</i>	+	<1 %	15 cm		Seedling
	<i>Cassia glutinosa</i>	<2	1-5%	1 m		
	<i>Cenchrus ciliaris</i>	+	<1 %	25 cm		
	<i>Cleome viscosa</i>	+	<1 %	45 cm		
	<i>Corchorus walcottii</i>	15-20	10-25%	35 cm	B166-12	
	<i>Corymbia hamersleyana</i>	+	<1 %	3 m		
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	25-30 cm	B166-13	?tri/med
	<i>Cymbopogon ambiguus</i>	+	<1 %	1 m	B166-8	
	<i>Dichrostachys spicata</i>	+	<1 %	1.25 m		
	<i>Dicliptera armata</i>	+	<1 %	30 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	40 cm		
	<i>Eriachne obtusa</i>	10-15%	10-25%	35-40 cm	B166-18	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	25 cm	B166-15	
	<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	+	<1 %	10 cm	B166-1	
	<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
	<i>Goodenia microptera</i>	+	<1 %	40 cm	B166-17	
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	30-40%	33.3-50%	1.5-2 m		
	<i>Hibiscus</i> aff. <i>platyklamys</i> (MET 15,067)	+	<1 %	30 cm		
	<i>Hybanthus aurantiacus</i>	+	<1 %	25 cm		
	<i>Indigofera colutea</i>	+	<1 %	20 cm		
	<i>Indigofera linifolia</i>	+	<1 %	25 cm		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	35-40 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	45 cm	B166-4	Sprawling
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm		
	<i>Polycarpaea longiflora</i> (red form)	+	<1 %	30 cm		
	<i>Polymeria calycina</i>	+	<1 %	35 cm	B166-5	ipopoly/polyamb?
	<i>Portulaca oleracea</i>	+	<1 %	2 cm	B166-19	
	<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	1 m		
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	1 m		Grey green sprawling
	<i>Solanum horridum</i>	+	<1 %	30 cm	B166-2	
	<i>Swainsona formosa</i>	+	<1 %	35 cm		
	<i>Tephrosia</i> sp.B Kimberley Flora(C.A.Gardner 7300)	<5%	1-5%	45-50 cm	B166-10	
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	20 cm	B166-14	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	1 m		
	<i>Triodia epactia</i> (Burrup Form)	40-50%	33.3-50%	25 30 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	20-30%	25-33.3%	30 cm		
	<i>Waltheria indica</i>	+	<1 %	45 cm	B166-9	

Burrup Peninsula Site B167

Described by VLL **Date** 3/06/00 **50 x 10 m**

Location Southwest corner (outside) Syntrolem Plant Site - drainage line with culverts under road, 50 m east of Burrup Road.

Air Photo **Photo** 1 **on Roll** F4 **Video** N **E Photo**

Photo Notes

AMG Zone 50 475579mE, 7717892mN 475587mE, 7717853mN

Habitat Narrow drainage line flowing E-W along outer edge of colluvial fan on one north side and hillslopes on the other (south). Moderately shallow banks 1.5 m but retains water for some time (pool still with water further up).

Soil Grey and brown-grey alluvial loam

Rock Type Medium-small cobbles have a whitish grey dried algal mat over them. Also some calcrete.

Vegetation Eucalyptus victrix low woodland over Acacia ampliceps open heath over Cyperus vaginatus, Triodia angusta (Burrup form), (Eriachne tenuiculmis) open sedgeland and hummock/tussock grassland.

Veg Condition No weeds.

Fire Age N/A

Notes Unusual Eucalyptus victrix over Acacia ampliceps vegetation unit.
Transect 50mx10m

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	35 cm		
	Acacia ampliceps	40%	33.3-50%	1.5-2 m		
	Acacia coriacea subsp. coriacea	+	<1 %	1 m	B167-13	
	Adriana tomentosa	+	<1 %	1 m		
	Ammannia baccifera	+	<1 %	20 cm		
	Cassytha capillaris	+	<1 %	1 m	B167-9	Scrambling
	Cenchrus ciliaris	+	<1 %	30 cm		
	Corchorus walcottii	+	<1 %	30 cm	B167-4	
	Cyperus bifax	+	<1 %	1 m		
	Cyperus vaginatus	15%	10-25%	50-60 cm	B167-9	
	Dichrostachys spicata	+	<1 %	1.25 m		
	Dicliptera armata	+	<1 %	30-40 cm		
	Eriachne obtusa	+	<1 %	40 cm	B167-10	muc/obt?
	Eriachne tenuiculmis	1%	1-5%	35 cm	B167-6	
	Eucalyptus victrix	15%	10-25%	3-5 m		
	Indigofera linifolia	+	<1 %			
	Ipomoea optica	+	<1 %	60 cm	B167-1	Slender vine
	Leptopus decaisnei var. decaisnei	+	<1 %	35 cm		
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	30 cm	B167-3	{recorded twice}
	Pittosporum phylliraeoides var. phylliraeoides	+	<1 %	1.5 m		
	Polymeria calycina	+	<1 %	35 cm	B167-12	
	Pterocaulon sphaeranthoides	+	<1 %	25 cm		
	Rhynchosia cf. minima	+	<1 %		B167-13	Grey green
	Rhynchosia sp. Burrup (82-1C)	+	<1 %			Viscid
	Scaevola spinescens (narrow form)	+	<1 %	1 m		Glabrous, bright green
	Sesbania cannabina	+	<1 %	1.5-2 m	B167-2	
	Stemodia grossa	+	<1 %	45 cm	B167-8	
	Terminalia canescens	+	<1 %	30 cm	B167-5	Seedling sterile
	Triodia angusta (Burrup Form)	<5%	1-5%	45-50 cm		
	Vigna lanceolata var. lanceolata	+	<1 %		B167-11	

Burrup Peninsula Site B169

Described by ASW **Date** 3/06/00

Location Hearson's Cove. Pale rockpile to NNE of B170. First rockpile S of Hearson's Cove beach - saddle on S of first summit and summit itself.

Air Photo **Photo** 18A **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 478902mE, 7718038mN 478920mE, 7718101mN 478877mE, 7718079mN 478939mE, 7718064mN

Habitat Bouldery, moderately steep slopes, which are more vegetated and with less angular boulders and rocks than slopes of dark rockpiles

Soil Brown silty loam with lots of coarse fragments - gravel, aggregate.

Rock Type Predominantly (1) coarse grained paler rock with lots of quartz (2) some minor outcrops of fine-grained dark rock, weathers rust brown, very angular. Cobbles and boulders approx. 80%

Vegetation *Brachychiton acuminatus*, *Acacia coriacea* subsp. *coriacea*, *Ehretia saligna* var. *saligna* high open shrubland over *Terminalia supranitifolia*, *Cassia glutinosa*, *Grevillea pyramidalis* subsp. *pyramidalis*, *Dicrostachys spicatus*, *Flueggea virosa* ssp. *melanthesioides*, *Scaevola spinescens* (narrow form), *Stylobasium spatulatum* open shrubland to shrubland over *Ptilotus obovatus* var. *obovatus*, **Aerva javanica*, *Corchorus walcottii*, *Alectryon oleifolius* low open shrubland to low shrubland over *Triodia epactia* (Burrup form), *Themeda* sp. Burrup (B84) hummock/tussock grassland.

Veg Condition Very good - grassier and weedier than most dark rockpiles.

Fire Age N/A

Notes More diffuse and uniform and richer in species than dark rockpiles.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>lepidum</i> (4)	+	<1 %	30 cm	B169-4	
	<i>Abutilon fraseri</i>	2	1-5%	30 cm	B169-6	Leaf cordate
	<i>Acacia bivenosa</i>	2	1-5%	30 cm		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	< 2	1-5%	2.5 m		
	<i>Acacia orthocarpa</i>	2-5	1-5%	90 cm	B169-1	Broad leaf
	<i>Aerva javanica</i>	1-2	1-5%	60 cm		
	<i>Alectryon oleifolius</i>	1	1-5%	50 cm		
	<i>Boerhavia coccinea</i>	1-2	1-5%	40 cm		Rough
	<i>Brachychiton acuminatus</i>	1-2	1-5%	2.5 m		
	<i>Bulbostylis barbata</i>	+	<1 %	< 5 cm	B169-8	Small sedge
	<i>Cassia glutinosa</i>	2-5	1-5%	> 1 m		
	<i>Cenchrus ciliaris</i>	1-2	1-5%	50 cm		
	<i>Cleome viscosa</i>	+	<1 %			
	<i>Corchorus walcottii</i>	+/- 1	<1 %	30 cm	B169-5	
	<i>Cymbopogon ambiguus</i>	1	1-5%	60 cm		
	<i>Cyperus hesperius</i>	+/- 1	<1 %		B169-11	
	<i>Dichrostachys spicata</i>	1-2	1-5%	1.5 m		
	<i>Ehretia saligna</i> var. <i>saligna</i>	1%	1-5%	2.5 m		
	<i>Enchylaena tomentosa</i>	1	1-5%	70 cm		
	<i>Euphorbia</i> sp.	+	<1 %	10 cm		=B170? {Useless}
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+/- 1	<1 %	< 10		=B170
	<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %			
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1-2	1-5%	2 m		
	<i>Gomphrena cunninghamii</i>	+	<1 %	25 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	1	1-5%	1.2 m		
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+/- 1	<1 %	30 cm	B169-7	Flowers pink, small
	<i>Hybanthus aurantiacus</i>	+/- 1	<1 %	60 cm	B169-12	
	<i>Indigofera linifolia</i>	+/- 1	<1 %	15 cm		
	<i>Indigofera trita</i>	+	<1 %	30 cm	B169-13	3 leaflets, Ind? (2 spp?)
	<i>Ipomoea costata</i>	1-2	1-5%	1.6 m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %			
	<i>Melhania</i> sp. Fortescue (M33-22)	+	<1 %	20 cm	B169-16	Leaf oblong
	<i>Mukia maderaspatana</i>	cover.	1-2	1-5%	1.5 m	B169-9
	<i>Nicotiana benthamiana</i>	+	<1 %	< 10 cm		
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm	B169-14	
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	2	1-5%	30 cm		Herb
	<i>Portulaca oleracea</i>	+	<1 %	10 cm		
	<i>Pterocaulon sphacelatum</i>	1-2	1-5%			
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	2-5	1-5%	70 cm	B169-3	

Rhagodia eremaea	1	1-5%	1.2 m		
Scaevola spinescens (narrow form)	1-2	1-5%	1.8 m		
Solanum horridum	+	<1 %	5 cm		=B170
Streptoglossa decurrens	+/- 1	<1 %	40 cm	B169-10	Strept de?
Stylobasium spathulatum	1	1-5%	1.2 m		On rocks
Swainsona formosa	1-2	<1 %	30 cm	B169-15	{recorded twice}
Tephrosia sp.B Kimberley Flora(C.A.Gardner 7300)	10-15	10-25%	70 cm	B169-2	Orange flowers
Terminalia supranitifolia	5-10	5-10%	1.8 m		
Themeda sp. Burrup (B84)	10-15	10-25%	60 cm		
Trachymene aff. oleracea (B61)	+/- 1	<1 %	50 cm		=B154
Trichodesma zeylanicum var. zeylanicum	+	<1 %	30 cm		
Triodia epactia (Burrup Form)	20-30	25-33.3%	40 cm		
Triumfetta appendiculata (Burrup Form)	+/- 1	<1 %	50 cm		Felty green

Burrup Peninsula Site B170

Described by ASW **Date** 3/06/00

Location Coastal grassland south end of Hearson's Cove picnic tables.

Air Photo **Photo** 17A **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 478852mE, 7717994mN 478796mE, 7718026mN

Habitat Flat to very gently sloping, top of low sand ridge.

Soil Fine grained sand with coarser shell grits and quartz particles.

Rock Type None seen.

Vegetation Acacia bivenosa, Acacia coriacea subsp. coriacea scattered shrubs over *Cenchrus ciliaris, Whiteochloa airoides, Triodia epactia (Burrup form) tussock/hummock grassland with *Aerva javanica, Indigofera linnaei low herbland.

Veg Condition Very poor, very weedy and logged (for firewood).

Fire Age N/A

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	1-2	1-5%	1.8 m		
	Acacia coriacea subsp. coriacea	+/- 1	<1 %	1 m		
	Aerva javanica	20-30	25-33.3%	60 cm		
	Alectryon oleifolius	+	<1 %	60 cm		
	Cenchrus ciliaris	> 50	50-75%	50 cm		Grazed
	Cleome viscosa	+/- 1	<1 %	40 cm		
	Euphorbia aff. australis (B170-4)	+/- 1	<1 %	5 cm	B170-4	=B159
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	50 cm		=B159
	Evolvulus alsinoides var. decumbens	+	<1 %		B170-5A	
	Evolvulus alsinoides var. villosicalyx	1	1-5%	< 5 cm	B170-5	
	Goodenia microptera	+/- 1	<1 %	15 cm	B170-3	
	Indigofera linifolia	1	1-5%	< 5 cm	B170-?	Small, green
	Indigofera linnaei	> 20	10-25%	40 cm		Many small leaflets
	Indigofera monophylla (Burrup form)	+	<1 %	30 cm		
	Sida aff. fibulifera (oblong; MET 15 220)	+/- 1	<1 %	20 cm	B170-2	
	Solanum horridum	+/- 1	<1 %	20 cm		Usual, +/- small flowers
	Swainsona formosa	1	1-5%	10 cm		
	Triodia epactia (Burrup Form)	10-15	10-25%	40 cm		
	Whiteochloa airoides	2-5	1-5%	> 50 cm	B170-1	

Burrup Peninsula Site B171

Described by ASW **Date** 3/06/00
Location ~500 m south of Hearson Cove picnic area over first rockpile ridge through watercourse.
Air Photo **Photo** Y **on Roll** AS **Video** N **E Photo**
Photo Notes 19A, 20A (from NW of Peg 2)
AMG Zone 50 478946mE, 7717454mN 478935mE, 7717435mN
Habitat Pocket of soil and calcrete with gravel and rocks in middle of rockpile of boulders and large boulders - slope gentle.
Soil Brown loose loamy soil where present.
Rock Type Calcrete present in lower end, very heavily weathered and pitted rocks red-brown on outside. Coarse grained and quartz on inside. >50% cover boulders rounded.
Vegetation Brachychiton acuminatus low open woodland over Flueggea virosa subsp. melanthesoides, Terminalia supranitifolia scattered tall shrubs over Scaevola spinescens (narrow form), Dichrostachys spicata, Acacia coriacea subsp. coriacea shrubland over Abutilon fraseri, Ptilotus obovatus var. obovatus low shrubland over Triodia angusta (Burrup form) very open hummock grassland.
Veg Condition Poor - much *Aerva javanica, otherwise very good to excellent.
Fire Age N/A
Notes [This site is too small to be used in floristic analysis but must have been a fairly large rock pocket, so retained.]

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	Abutilon fraseri	20-30	25-33.3%	20 cm	=B169, cordate 2 ssp.?
	Acacia coriacea subsp. coriacea	5-10	5-10%	1.5 m	
	Aerva javanica	1-5	1-5%		
	Alectryon oleifolius	1-2	1-5%	1.5 m	
	Brachychiton acuminatus	5-10	5-10%	3 m	
	Commicarpus australis	5-10	5-10%	1.2 m	
	Dichrostachys spicata	5-10	5-10%	1.8 m	
	Enchylaena tomentosa	2-5	1-5%	50 cm	
	Flueggea virosa subsp. melanthesoides	2-5	1-5%	2 m	
	Mukia maderaspatana	2	1-5%	1.2 m	
	Paspalidium clementii	1	1-5%	15 cm	
	Pterocaulon sphacelatum	+	<1 %	20 cm	
	Ptilotus obovatus var. obovatus	10-20	10-25%	70 cm	=B169
	Rhagodia eremaea	5	5-10%	1.2 m	
	Scaevola spinescens (narrow form)	10-15	10-25%	1.8 m	
	Solanum horridum	+	<1 %	15 cm	
	Terminalia supranitifolia	10-15	10-25%	1.8 m	
	Tinospora smilacina	+	<1 %	1.5 m	
	Triodia angusta (Burrup Form)	2-5	1-5%	60 cm	

Burrup Peninsula Site B172

Described by ASW **Date** 3/06/00
Location Spinifex meadow above B171.
Air Photo **Photo** Y **on Roll** AS **Video** N **E Photo**
Photo Notes 21A, looking 215 degrees from NW of B171, Peg 2; 22A, from above Peg 1.
AMG Zone 50 478942mE, 7717425mN 478887mE, 7717416mN
Habitat Pocket of hummock grassland +/- level +/- surrounded by rockpiles.
Soil Brown sticky clay seemingly associated with calcrete, red clay loam, where present approx. 5% cover with gravel.
Rock Type Calcrete pavement in parts, coarse calcrete gravel throughout, approx. 10% cover. Coarse grained quartz rock, cobbles ~70% cover, some outcropping of same material.
Vegetation Ipomoea costata, Indigofera monophylla (Burrup form) scattered low shrubs over Triodia wiseana

(Burrup form), *Triodia angusta* (Burrup form) hummock grassland.

Veg Condition Very good.

Fire Age N/A

Notes Excludes edges (I.e. trees and large shrubs and their associated species). *Stylobasium* shrubs are common in places on the edge, and *Pittosporum phylliraeoides* is on one side. (the *Triodia angusta* (Burrup form) parts are closed hummock grassland)

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Aerva javanica</i>	1	1-5%	40 cm		
	<i>Gomphrena cunninghamii</i>	+	<1 %	10 cm		
	<i>Indigofera monophylla</i> (Burrup form)	1	1-5%	50 cm		Near edge
	<i>Ipomoea costata</i>	+	<1 %	40 cm		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	20 cm		
	<i>Solanum horridum</i>	+	<1 %	10 cm		
	<i>Streptoglossa decurrens</i>	1	1-5%	30 cm		Usual
	<i>Triodia angusta</i> (Burrup Form)	15-20	10-25%	60 cm		+/- glabrous ligule
	<i>Triodia wiseana</i> (Burrup Form)	30	25-33.3%	30 cm		Hairy ligule

Burrup Peninsula Site B173

Described by ASW **Date** 3/06/00

Location Transect from Peg 2 of B172, southwest along rockpile for 100 metres.

Air Photo **Photo** Y **on Roll** AS **Video** N **E Photo**

Photo Notes 23A (foreground), 24A (pockets on rockpiles).

AMG Zone 50 478887mE, 7717416mN 478882mE, 7717338mN

Habitat Gently to moderately sloping pockets of vegetation along moderately to steeply sloping bare rockpile, bouldery slopes.

Soil Two different soils: (1) Brown clay, calcrete present, supports *Triodia*. (2) Red sandy loam, coarse grained rock present

Rock Type Same coarse grained quartz rock as before, some calcrete, soil cover ~2%.

Vegetation Inadequate data recorded for a vegetation description to be compiled.

Veg Condition Excellent.

Fire Age N/A

Notes B173 covers five patches/pockets of vegetation.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	<1 %		50 cm	B173-1	=B171, 169
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<1 %		3.5 m		
	<i>Alectryon oleifolius</i>	<1 %		1.5 m		
	<i>Boerhavia coccinea</i> (form A)	<1 %		50 cm	B173-3	Hairy
	<i>Brachychiton acuminatus</i>	<1 %		3.5 m		
	<i>Capparis spinosa</i> var. <i>nummularia</i>	<1 %		90 cm		capnumsp?
	<i>Chenopodium pumilio</i>	<1 %		15 cm	B173-2	
	<i>Cleome viscosa</i>	<1 %				
	<i>Clerodendrum tomentosum</i>	<1 %		3.5 m		
	<i>Commicarpus australis</i>	<1 %		2.5 m		
	<i>Dichrostachys spicata</i>	<1 %		2.5 m		
	<i>Enchylaena tomentosa</i>	<1 %		1.5 m		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	<1 %		3.5 m		
	Genus sp. Unnamed	<1 %		50 cm		flowers small pink
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	<1 %		1.2 m		
	<i>Malvastrum americanum</i>	<1 %		60 cm	B173-4	
	<i>Mukia maderaspatana</i>	<1 %		1 m		

<i>Nicotiana occidentalis</i> subsp. <i>occidentalis</i>	<1 %	30 cm	B173-5
<i>Paspalidium clementii</i>	<1 %	30 cm	
<i>Paspalidium tabulatum</i> (Burrup Form)	<1 %	50 cm	
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	<1 %	3 m	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	<1 %	90 cm	
<i>Rhagodia eremaea</i>	<1 %	1.8 m	
<i>Scaevola spinescens</i> (narrow form)	<1 %	2.5 m	
<i>Solanum horridum</i>	<1 %	30 cm	
<i>Stylobasium spathulatum</i>	<1 %	2.0 m	
<i>Terminalia supranitifolia</i>	<1 %	2.0 m	
<i>Tinospora smilacina</i>	<1 %	2.5 m	
<i>Triodia angusta</i> (Burrup Form)	<1 %	70 cm	
<i>Triodia epactia</i> (Burrup Form)	<1 %	30 cm	

Burrup Peninsula Site B174

Described by ASW **Date** 3/06/00

Location Spinifex gully in rockpile adjoining SW side of B173.

Air Photo **Photo** 24A **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 478813mE, 7717377mN 478797mE, 7717311mN

Habitat Moderately steep slope of vegetation strip.

Soil Red clay in open, covered with layer of organic material under *Ficus* etc. Approx. 10% cover.

Rock Type Calcrete, mainly coarse gravel, some pavement, approx. 40% cover. Coarse grained quartzite one (see B171), mainly cobbles, some outcropping, approx. 50% cover.

Vegetation Inadequate data recorded for a vegetation description to be compiled.

Veg Condition Excellent.

Fire Age N/A

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	<1 %		50 cm		=B173
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<1 %		2.5 m		
	<i>Alectryon oleifolius</i>	<1 %		1.6 m		
	<i>Brachychiton acuminatus</i>	<1 %		3.5 m		
	<i>Capparis spinosa</i> var. <i>nummularia</i>	<1 %		1.5 m		Capnumsp, no name
	<i>Chenopodium pumilio</i>	<1 %		10 cm	B174-1	
	<i>Cleome viscosa</i>	+	<1 %	20 cm		
	<i>Commicarpus australis</i>	<1 %		2 m		
	<i>Dichrostachys spicata</i>	<1 %		2 m		
	<i>Ehretia saligna</i> var. <i>saligna</i>	<1 %		2.5 m		
	<i>Enchylaena tomentosa</i>	<1 %		50 cm		
	<i>Ficus platypoda</i>	<1 %		3.5 m		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	<1 %		3 m		
	Genus sp. Unnamed	<1 %		20 cm	B174-2	Cucurbit
	<i>Malvastrum americanum</i>	<1 %		60 cm		
	<i>Paspalidium tabulatum</i> (Burrup Form)	<1 %		50 cm		
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	<1 %		1.8 m		
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	<1 %		70 cm		
	<i>Rhagodia eremaea</i>	<1 %		1.5 m		
	<i>Scaevola spinescens</i> (narrow form)	<1 %		2.5 m		
	<i>Solanum horridum</i>	<1 %		20 cm		
	<i>Stylobasium spathulatum</i>	<1 %		2 m		
	<i>Terminalia supranitifolia</i>	+	<1 %	1.5 m		One only
	<i>Trichosanthes cucumerina</i>	<1 %		2.5 m		
	<i>Triodia angusta</i> (Burrup Form)	<1 %		90 cm		

Burrup Peninsula Site B175**Described by** ASW **Date** 3/06/00**Location** Spinifex meadow downstream from B173, next to lower part of B174.**Air Photo** **Photo** 24A **on Roll** AS **Video** N **E Photo****Photo Notes** 24A lower part of photo.**AMG Zone** 50 478804mE, 7717313mN 478784mE, 7717271mN**Habitat** Gently sloping +/- flat valley, bordered on both sides and lower end by rockpile slopes.**Soil** See B171-174.**Rock Type** See B171-174.**Vegetation** *Pittosporum phylliraeoides* var. *phylliraeoides* scattered tall shrubs to high open shrubland over *Triodia angusta* (Burrup form) closed hummock grassland.**Veg Condition** Excellent.**Fire Age** N/A**Notes** 2 metres from edge is excluded and lower part is also excluded (last 10-15 m). *Terminalia supranatifolia*, *Clerodendrum tomentosum*, *Scaevola spinescens* (narrow form), *Ptilotus obovatus*, *Alectryon oleifolius*, *Dicrostachys spicata*, *Rhagodia eremaea*, *Acacia coriacea* subsp. *coriacea*.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Alectryon oleifolius</i>	2	1-5%	90 cm	
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	< 5	1-5%	2.5 m	Mainly at edge.
	<i>Stylobasium spathulatum</i>	+	<1 %	1.5 m	
	<i>Swainsona formosa</i>	< 2	1-5%	50 cm	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	1.5 m	
	<i>Triodia angusta</i> (Burrup Form)	> 80	>75%	90 cm	

Burrup Peninsula Site B181**Described by** MET **Date** 3/06/00**Location** Syntrolem proposed site.**Air Photo** **Photo** 5 **on Roll** 2 **Video** Y **E Photo** 270**Photo Notes****AMG Zone** 50 475723mE, 7717782mN 475680mE, 7717777mN 475677mE, 7717793mN 475714mE, 7717801mN**Habitat** Gentle north facing slope (below but away from ridge) in broad valley.**Soil** Light brown loam with calcereous nodules. Some boulders (possibly rock near surface in one part of plot).**Rock Type****Vegetation** *Eucalyptus victrix* low woodland over *Pittosporum phylliraeoides* var. *phylliraeoides*, *Acacia bivenosa* scattered tall shrubs (in patches) over *Rhagodia eremaea* open shrubland (patchy under trees) over *Aerva javanica* open shrubland (patches) over *Corchorus walcottii*, *Indigofera monophylla* (Burrup form) low open shrubland over *Enneapogon oblongis*, *Triodia epactia* (Burrup form), *Cenchrus ciliaris* open tussock/hummock grassland with *Jasminum didymum* subsp. *lineare*, *Rhynchosia* cf. *minima*, *Rhynchosia* sp. King Bay scattered lianes.**Veg Condition****Fire Age****Notes** The shrubs are mainly under the *E. victrix*, as is the *Cenchrus*. This is an unusual stand with *E. victrix* on a slope rather than in a flow line. It has a significant "rockpile" flora component. Only place known by Vicki Long for the *Solanum*, and only place on peninsula she knows the *Enneapogon* from. There is less *Enneapogon* under the trees. *Solanum* - stems often lax on ground then +/- erect.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	20-50 cm	B181-9	
	<i>Abutilon oxycarpum</i> subsp. <i>prostratum</i>	+	<1 %	15-75 cm		
	<i>Acacia bivenosa</i>	+	<1 %	0.5-2.3 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1-2 m		
	<i>Aerva javanica</i>	>= 3	1-5%	30 cm		
	<i>Alectryon oleifolius</i>	+	<1 %	1.4-1.7 m	B181-20	
	<i>Boerhavia gardneri</i>	+	<1 %	50 cm	B181-30	
	<i>Brachychiton acuminatus</i>	+	<1 %	15-160		Juvenile
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	15 cm		
	<i>Cassia glutinosa</i>	+	<1 %	40 cm		
	<i>Cenchrus ciliaris</i>	2-3	1-5%	50-130		
	<i>Chrysopogon fallax</i>	+/- 2	1-5%		B181-12	
	<i>Corchorus walcottii</i>	+	<1 %	25-60 cm	B181-10	
	<i>Corymbia hamersleyana</i>	+	<1 %	1.4 m		To 6 m just out of plot
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	75-100		
	<i>Dichrostachys spicata</i>	+	<1 %	1.5-2.2 m		
	<i>Dicliptera armata</i>	+	<1 %	25-45 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	0.3-3 m		Juvenile
	<i>Enchylaena tomentosa</i>	+	<1 %	50-120	B181-6	
	<i>Enneapogon caerulescens</i> var. <i>occidentalis</i>	+	<1%			
	<i>Enneapogon oblongus</i>	15	10-25%	(10)50-80	B181-3,19	+ heads
	<i>Eriachne tenuiculmis</i>	+	<1 %		B181-6b	
	<i>Eucalyptus victrix</i>	+/- 25	10-25%	4-7 m		
	<i>Euphorbia coghlanii</i>	+	<1 %	20-35 cm	B181-7	
	<i>Euphorbia</i> sp.	+	<1 %	50 cm	B181-24	
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %			
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10-35 cm	B181-15	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	40 cm		
	<i>Goodenia microptera</i>	+	<1 %	30 cm	B181-28	
	<i>Gossypium australe</i> (Burrup Peninsula form)	+	<1 %	20-40 cm	B181-22	
	<i>Hakea chordophylla</i>	+	<1 %	1.5 m	B181-16	
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	35 cm	B181-8	cf.
	<i>Indigofera linifolia</i>	+	<1 %	30 cm		
	<i>Indigofera linnaei</i>	+	<1 %	10-25 cm	B181-21	?
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	20 cm		Stunted
	<i>Indigofera trita</i>	+	<1 %	20 cm	B181-14	
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	(0.3) 1-2		
	<i>Malvastrum americanum</i>	+	<1 %	30-50 cm		
	<i>Melhania</i> sp. <i>Fortescue</i> (M33-22)	+	<1 %			
	<i>Mukia maderaspatana</i>	+	<1 %	50 cm		Nearly dead
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	60 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	70 cm		
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %	0.75-2.2		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	35 cm	B181-18	Common
	<i>Pterocaulon sphaeranthoides</i>	+	<1 %	30 cm	B181-17	"Uncommon"
	<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	+	<1 %	10-35 cm		Juvenile
	<i>Rhagodia eremaea</i>	< 1	<1 %	(20 cm)		
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	25 cm	B181-26	Grey, obtuse leaflet
	<i>Rhynchosia</i> sp. King Bay (B181-13)	+	<1 %	70 cm	B181-13	acute leaflet
	<i>Scaevola spinescens</i> (narrow form)	< 1	<1 %	1-1.5 m	B181-1	
	<i>Setaria verticillata</i>	+	<1 %	40 cm	B181-29	
	<i>Sida</i> aff. <i>fibulifera</i> (B181-5B)	+	<1 %		B181-5B	
	<i>Sida</i> aff. <i>fibulifera</i> (oblong; MET 15 220)	+	<1 %	20-30 cm	B181-5a	cf.
	<i>Solanum esuriale</i>	+	<1 %	5-35 cm	B181-4	
	<i>Solanum horridum</i>	+	<1 %	20 cm	B181-25	Common
	<i>Streptoglossa decurrens</i>	+	<1 %	25 cm	B181-27	

<i>Stylosanthes hamata</i>	+	<1 %	5 cm	
<i>Swainsona formosa</i>	+	<1 %	15-25 cm	
<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	35 cm	B181-23
<i>Threlkeldia diffusa</i>	+	<1 %	40 cm	B181-11
<i>Tinospora smilacina</i>	+	<1 %	30 cm	
<i>Triodia angusta</i> (Burrup Form)	+	<1 %		B181-6c
<i>Triodia epactia</i> (Burrup Form)	10-15	10-25%	25-50 cm	B181-2
<i>Triumfetta clementii</i>	+	<1 %	15 cm	

Burrup Peninsula Site B182

Described by MET **Date** 3/06/00

Location Pistol Ranges east from Telstra tower.

Air Photo **Photo** 4 **on Roll** MB **Video** Y **E Photo** 271

Photo Notes

AMG Zone 50 473364mE, 7714602mN 473398mE, 7714660mN

Habitat Rock outcrop.

Soil Light brown (orangish).

Rock Type Medium (to coarse) grained whitish grey, mostly quartz and feldspar.

Vegetation *Corymbia hamersleyana*, *Terminalia supranitifolia* scattered low trees over *Flueggea virosa* subsp. *melanthesoides*, *Ipomoea costata* scattered tall shrubs over *Scaevola spinescens* (narrow form), *Acacia tenuissima*, *Cajanus cinereus*, *Rhagodia eremaea* scattered shrubs over *Corchorus walcottii*, *Indigofera monophylla* (Burrup form) scattered low shrubs over *Themeda* sp. Burrup (B84), *Triodia epactia* (Burrup form) tussock/hummock grassland.

Veg Condition Very good.

Fire Age ?10 years.

Notes Peg 1 at base of large rounded boulder at WSE end of outcrop.

Rock Pile Notes Linear outcrop, about 50% soil cover, rocks mostly rounded, some angular.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	10 cm		Common
	<i>Acacia pyrifolia</i> (green)	+	<1 %	70 cm	B182-5	cf. Green.
	<i>Acacia tenuissima</i>	+	<1 %	1.3 m	B182-6	Subterete, E-photo
	<i>Amaranthus</i> aff. <i>pallidiflorus</i> (D89)	+	<1 %	12 cm	B182-10	
	<i>Brachychiton acuminatus</i>	+	<1 %	(0.1) 1.6		Small individual =
	<i>Cajanus cinereus</i>	+	<1 %	1.6 m	B182-12	
	<i>Cassia glutinosa</i>	+	<1 %	1.2 m		
	<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)	+	<1 %	5 cm	B182-4	
	<i>Clerodendrum tomentosum</i>	+	<1 %	1 m		Very stressed
	<i>Corchorus walcottii</i>	+	<1 %	35 cm	B182-15	
	<i>Corymbia hamersleyana</i>	+	<1 %	2.3-3 m		
	<i>Cymbopogon ambiguus</i>	+	<1 %	40-70 cm	B182-2	
	<i>Cyperus hesperius</i>	+	<1 %		B182-16	
	<i>Dichrostachys spicata</i>	+	<1 %	2.8 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	65 cm		
	<i>Euphorbia coghlanii</i>	+	<1 %	35 cm	B182-13	{recorded twice}
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	15 cm	B182-11	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	3.5 m		
	<i>Hybanthus aurantiacus</i>	+	<1 %	25 cm		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	25-40 cm		
	<i>Ipomoea costata</i>	+	<1 %	1-2.4 m		
	<i>Mukia maderaspatana</i>	+	<1 %	0.7-2 m	B182-1	
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	50 cm		
	<i>Rhagodia eremaea</i>	+	<1 %	0.2-1.4 m		
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	50 cm		Greyish
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.8+ m		Common
	<i>Sida cardiophylla</i>	+	<1 %	10-55 cm	B182-14	

<i>Solanum horridum</i>	+	<1 %	12 cm	B182-7
<i>Terminalia supranitifolia</i>	+	<1 %	1.5-2.5 m	
<i>Themeda</i> sp. Burrup (B84)	20-25%	10-25%	35-60 cm	B182-3
<i>Tinospora smilacina</i>	+	<1 %	1.6 m	
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	55 cm	B182-8
<i>Trianthema</i> sp.	+	<1 %	25-45 cm	B182-9
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	50 cm	
<i>Triodia epactia</i> (Burrup Form)	15-20%	10-25%		B182-17
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	(10 cm)	
<i>Triumfetta clementii</i>	+	<1 %	15 cm	

Burrup Peninsula Site B183

Described by MET **Date** 3/06/00

Location Pistol Range ENE of Telstra tower.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo** 274

Photo Notes

AMG Zone 50 473467mE, 7714870mN 473415mE, 7714840mN

Habitat Strip along the base of the north facing side of a large rockpile.

Soil

Rock Type Fine grained, grey igneous/volcanic.

Vegetation *Ehretia saligna* var. *saligna*, *Brachychiton acuminatus* scattered low trees over *Flueggea virosa* subsp. *melanthesoides*, *Ipomoea costata*, *Terminalia supranitifolia* scattered tall shrubs over *Rhagodia eremaea*, *Scaevola spinescens* (narrow form) scattered shrubs over *Triodia epactia* (Burrup form) open hummock grassland with *Rhynchosia* sp. Burrup (82-1C) open lianes and *Dicliptera armata* annual open herbland.

Veg Condition Excellent.

Fire Age > 10 years.

Notes *Corymbia hamersleyana* present further along rockpile. E-photo 275 = *Brachychiton acuminatus*.

Rock Pile Notes North facing side of a large mound of angular boulders on a crest. Soil non-existent on slope but +/- 50% of surface in strip sampled at the base.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	30-75 cm		
	<i>Boerhavia coccinea</i> (form A)	+	<1 %	50 cm	B183-8	Dead
	<i>Brachychiton acuminatus</i>	+	<1 %	5 m		
	<i>Cassia glutinosa</i>	+	<1 %	70 cm		
	<i>Cleome viscosa</i>	+	<1 %	8-55 cm		
	<i>Clerodendrum tomentosum</i>	+	<1 %	3 m		
	<i>Corchorus walcottii</i>	+	<1 %	35 cm		=B182
	<i>Cymbopogon ambiguus</i>	+	<1 %	40 cm		=B182
	<i>Dichrostachys spicata</i>	+	<1 %	1.5 m		
	<i>Dicliptera armata</i>	>= 20	10-25%	25-75 cm		
	<i>Digitaria ctenantha</i>	+	<1 %	70 cm		Dead
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	4 m		
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10 cm	B183-2	
	<i>Ficus platypoda</i> var. <i>G</i>	+	<1 %	2.6 m	B183-5	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	3 m		
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	45 cm	B183-3	
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	70 cm		
	<i>Ipomoea costata</i>	+	<1 %	1.9-3 m		
	<i>Mukia maderaspatana</i>	+	<1 %	1.2 m	B183-6	
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	10-50 cm		
	<i>Rhagodia eremaea</i>	+	<1 %	1.2 m		
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+/- 25	10-25%	30-80 cm	B183-1	Green sticky
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	2 m		
	<i>Solanum cleistogamum</i>	+	<1 %	10 cm	B183-7	

<i>Terminalia supranitifolia</i>	+	<1 %	1-2.2 m	
<i>Themeda</i> sp. Burrup (B84)	+	<1 %	40 cm	=B182
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	65 cm	=B182
<i>Triodia epactia</i> (Burrup Form)	+/- 20	10-25%	30-55 cm	B183-4
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	10-25 cm	

Burrup Peninsula Site B184

Described by MET **Date** 4/06/00

Location Hearsons' Cove to King Bay.

Air Photo **Photo** 3 **on Roll** **MB** **Video** **Y** **E Photo** 277-8

Photo Notes

AMG Zone 50 477266mE, 7718310mN 477265mE, 7718282mN 477340mE, 7718268mN 477339mE, 7718245mN

Habitat Gently sloping to north lower colluvial slope next to tidal area.

Soil Light brown gravelly/pebbly loam, has about 20% pebble surface and a black (Cyanophycene) crust on much of remainder of surface.

Rock Type

Vegetation *Indigofera trita* low shrubland over *Triodia angusta* (Burrup form), (*Triodia epactia* (Burrup form)) hummock grassland.

Veg Condition Excellent.

Fire Age > 5 years ?> 10 years.

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Aerva javanica</i>	+	<1 %	15-45 cm		
	<i>Alysicarpus muelleri</i>	+	<1 %	25 cm	B184-15	
	<i>Cassytha capillaris</i>	+	<1 %	50 cm	B184-7	
	<i>Cenchrus ciliaris</i>	+	<1 %	35 cm		
	<i>Chrysopogon fallax</i>	<= 1	<1 %	40-60 cm	B184-6	
	<i>Corchorus walcottii</i>	+	<1 %	25 cm	B184-12	
	<i>Eragrostis</i> aff. <i>eriopoda</i>	+	<1 %	25 cm	B184-16	
	<i>Eriachne obtusa</i>	+	<1 %	65 cm	B184-13	
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	50 cm		Sterile
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	7 cm	B184-5	
	<i>Goodenia microptera</i>	+	<1 %	45 cm	B184-11	
	<i>Indigofera linifolia</i>	+	<1 %	12 cm		
	<i>Indigofera linnaei</i>	+	<1 %	10 cm	B184-4	
	<i>Indigofera trita</i>	> 15	10-25%	15-60 cm		
	<i>Melhania</i> sp. <i>Fortescue</i> (M33-22)	+	<1 %	5 cm	B184-14	Grey narrow
	<i>Pterocaulon sphacelatum</i>	+	<1 %			
	<i>Pterocaulon sphaeranthoides</i>	+	<1 %	10 cm	B184-10	
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	25 cm	B184-9	Greyish
	<i>Streptoglossa decurrens</i>	+	<1 %	35 cm		Common
	<i>Tephrosia</i> aff. <i>clementii</i> (5)B184	+	<1 %	25-50 cm	B184-3	
	<i>Tephrosia</i> aff. <i>supina</i> (MET 12,357)	+	<1 %	25 cm	B184-8	
	<i>Trianthema turgidifolia</i>	+	<1 %	25 cm		
	<i>Triodia angusta</i> (Burrup Form)	65-80	50-75%	40-65 cm		
	<i>Triodia epactia</i> (Burrup Form)	2-5	1-5%	40 cm	B184-1	Sticky

Burrup Peninsula Site B185

Described by MET **Date** 4/06/00

Location Valley near Jump up.

Air Photo **Photo** 2 **on Roll** **MB** **Video** **Y** **E Photo** 284

Photo Notes

AMG Zone 50 479119mE, 7724928mN 479144mE, 7724900mN 479168mE, 7724924mN 479166mE, 7724974mN

Habitat Gentle slope in valley floor, north facing.

Soil Gravelly/cobbly slightly orangish light brown loamy fine sand.

Rock Type Grey fine grained (?volcanic).

Vegetation *Acacia bivenosa*, (*Hakea chordophylla* (in clumps)) high shrubland over *Rhagodia eremaea*, *Scaevola spinescens* (narrow form), *Adriana tomentosa* scattered shrubs over *Corchorus walcottii* scattered low shrubs over *Triodia epactia* (Burrup form) hummock grassland.

Veg Condition Excellent.

Fire Age > 10 years.

Notes Has small clumps of *Hakea* individuals with *Scaevola*, *Rhagodia* - possibly on areas where rock near surface.

Pluchea tetranthera was just outside this site.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>lepidum</i> (4)	+	<1 %	60 cm	B185-22	
	<i>Acacia bivenosa</i>	+/- 15	10-25%	(1.3)		
	<i>Acacia colei</i>	+	<1 %	0.5-2 m	B185-15	Broad
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.2 m		
	<i>Acacia elachantha</i>	+	<1 %	2 m	B185-20	In slight flow line at
	<i>Adriana tomentosa</i>	+/- 1	<1 %	60-80 cm	B185-6	
	<i>Boerhavia</i> sp.	+	<1 %	35 cm	B185-4,8	
	<i>Cassia glutinosa</i>	+	<1 %	0.65-1.1		
	<i>Cleome viscosa</i>	+	<1 %	55 cm		
	<i>Corchorus walcottii</i>	1-2	1-5%	20-55 cm	B185-2	
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	15-70 cm		
	<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	15 cm		
	<i>Dichrostachys spicata</i>	+	<1 %	1-1.7 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	45-60 cm		
	<i>Euphorbia</i> aff. <i>australis</i> (B191)	+	<1 %	10 cm	B185-9	cf.
	<i>Euphorbia biconvexa</i>	+	<1 %	20-50 cm	B185-7	
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	35 cm	B185-10	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10-35 cm	B185-24	
	<i>Fimbristylis</i> aff. <i>dichotoma</i> (M75-4)	+	<1 %	5-8 cm	B185-14	Perennial
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	75 cm		Under <i>Scaevola</i>
	<i>Gomphrena cunninghamii</i>	+	<1 %	10-25 cm		
	<i>Goodenia microptera</i>	+	<1 %	15 cm		
	<i>Hakea chordophylla</i>	+	<1 %	1.5-2.7 m	B185-3	
	<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %			
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	20 cm	B185-12	
	<i>Indigofera linifolia</i>	+	<1 %	15 cm		
	<i>Indigofera linnaei</i>	+	<1 %	25 cm		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	65 cm		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1.7 m		
	<i>Mollugo molluginis</i>	+	<1 %	10-25 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	1.6+ m	B185-13	
	<i>Myoporum montanum</i>	+	<1 %	45 cm	B185-23	juvenile, large
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	35-75 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	60-70 cm		
	<i>Polycarpaea longiflora</i> (red form)	+	<1 %	20-35 cm		
	<i>Portulaca pilosa</i>	+	<1 %	15-25 cm	B185-5	
	<i>Pterocaulon sphacelatum</i>	+	<1 %	70 cm		Common
	<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>	+	<1 %	30 cm		
	<i>Rhagodia eremaea</i>	+	<1 %	1-1.7 m		
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	15 cm	B185-21	Grey. In slight flow line
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	60-150		

<i>Sida</i> aff. <i>fibulifera</i> (B64-13B)	+	<1 %	10 cm	B185-17	aff. In slight flow line
<i>Solanum horridum</i>	+	<1 %	15 cm	B185-16	Common
<i>Solanum phlomoides</i>	+	<1 %	20 cm	B185-11	
<i>Streptoglossa decurrens</i>	+	<1 %	30-90 cm		Common
<i>Swainsona formosa</i>	+	<1 %	25 cm		
<i>Tephrosia</i> aff. <i>densa</i> (B17)	+	<1 %	25 cm	B185-18	cf In slight flow line at
<i>Tephrosia</i> aff. <i>supina</i>	+	<1 %	20 cm		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	15 cm		
<i>Triodia epactia</i> (Burrup Form)	<= 60	50-75%	30-50 cm	B185-1	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	25 cm		
<i>Triumfetta clementii</i>	+	<1 %	20 cm		
<i>Zornia muelleriana</i> subsp. <i>congesta</i>	+	<1 %	10 cm	B185-19	In slight flow line at

Burrup Peninsula Site B186

Described by VLL **Date** 3/06/00

Location 700 m north of Telecom tower above Pistol Club, and top of range.

Air Photo **Photo** 2 **on Roll** F4 **Video** N **E Photo**

Photo Notes

AMG Zone 50 473450mE, 7714718mN 473392mE, 7714714mN 473447mE, 7714767mN 473391mE, 7714719mN

Habitat Upper gentle south-east facing slope with granite boulders 20-40 cm.

Soil Very fine red loam.

Rock Type

Vegetation *Acacia tenuissima* low shrubland over *Themeda* sp. Burrup (B84) grassland to closed grassland over *Goodenia stobbsiana* very open herbland.

Veg Condition Excellent, no weeds.

Fire Age Not obvious.

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>lepidum</i> (4)	+	<1 %	20c m	B186-9	
	<i>Acacia elachantha</i>	+	<1 %	40 cm	B186-13	Sterile
	<i>Acacia tenuissima</i>	20	10-25%	80 cm	B186-14	?orthocarpa/arida
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	20 cm	B186-8	
	<i>Cajanus cinereus</i>	+	<1 %	35 cm		
	<i>Corymbia hamersleyana</i>	+	<1 %	80 cm	B186-6	Stunted, sterile
	<i>Gomphrena cunninghamii</i>	+	<1 %	10 cm		
	<i>Goodenia stobbsiana</i>	5	5-10%	30-40 cm	B186-15	
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1.25 m		
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	20 cm	B186-10	
	<i>Hybanthus aurantiacus</i>	+	<1 %	15 cm		
	<i>Mukia maderaspatana</i>	+	<1 %			
	<i>Polygala</i> sp. (M23-2)	+	<1 %	2 cm	B186-1	<i>Polygala</i> ins?
	<i>Sida cardiophylla</i>	+	<1 %		B186-7	
	<i>Solanum horridum</i>	+	<1 %	45 cm	B186-3	
	<i>Striga curviflora</i>	+	<1 %	4 cm	B186-5	
	<i>Tephrosia</i> aff. <i>supina</i>	+	<1 %	25 cm		
	<i>Themeda</i> sp. Burrup (B84)	70	50-75%	20-30 cm	B186-12	
	<i>Tinospora smilacina</i>	+	<1 %			Vine
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	2 cm		
	<i>Triodia epactia</i> (Burrup Form)	+	<1 %	30 cm	B186-4	Non-resinous
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm		
	<i>Triumfetta clementii</i>	+	<1 %	25 cm	B186-11	

Burrup Peninsula Site B187

Described by VLL **Date** 3/06/00
Location ~1100 m north of Telecom tower.
Air Photo **Photo** 4 **on Roll** F4 **Video** N **E Photo**
Photo Notes
AMG Zone 50 473580mE, 7714924mN
Habitat Upper Themeda sp. Burrup (B84) west facing slope with mantle of finegrained rocks and boulders, small to medium, 10-30 cm diameter.
Soil Fine red-brown silty loam, skeletal.
Rock Type Fine-grained brown-red and grey boulders, 10-30 cm diameter.
Vegetation Acacia tenuissima scattered shrubs over Themeda sp. Burrup (B84), Triodia epactia (Burrup form) tussock/hummock grassland.
Veg Condition Excellent, no weeds.

Fire Age**Notes****Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia tenuissima	<5%	1-5%	80 cm	B187-4	?ort/arida
	Bonamia media var. villosa	+	<1 %	2 cm	B187-5	
	Cajanus cinereus	+	<1 %	40 cm		
	Corymbia hamersleyana	+	<1 %	1.75 m		Thick bark.
	Euphorbia coghlani	+	<1 %	20 cm	B187-3	
	Evolvulus alsinoides var. villosicalyx	+	<1 %	15 cm		
	Gomphrena cunninghamii	+	<1 %	10 cm		
	Goodenia stobbsiana	+	<1 %	40 cm		As for B186
	Hibiscus sturtii var. campylochlamys	+	<1 %	20 cm		
	Tephrosia aff. supina (MET 12,357)	+	<1 %	30 cm		
	Themeda sp. Burrup (B84)	40-50%	33.3-50%	30 cm		
	Trachymene aff. oleracea (B61)	+	<1 %	0-5 cm	B187-1	
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	15 cm		
	Triodia epactia (Burrup Form)	10	5-10%	30 cm	B187-2	
	Triumfetta appendiculata (Burrup Form)	+	<1 %	20 cm		
	Triumfetta clementii	+	<1 %	20 cm		

Burrup Peninsula Site B191

Described by MET **Date** 4/06/00
Location Valley on south side of Jumpup Ridge.
Air Photo **Photo** 1 **on Roll** MB **Video** N **E Photo** 285-8
Photo Notes
AMG Zone 50 479882mE, 7724988mN 479741mE, 7725042mN
Habitat Valley floor - has been incised by a creek to one side (north), slopes up to south.
Soil Brown sandy fine loam, cobbly and pebbly.
Rock Type
Vegetation Corymbia hamersleyana scattered low trees over Grevillea pyramidalis subsp. pyramidalis scattered tall shrubs over Indigofera monophylla (Burrup form), Tephrosia rosea var. clementii scattered shrubs to low open shrubland over Triodia epactia (Burrup form) hummock grassland with Indigofera linifolia, Indigofera trita, Tephrosia aff. supina (MET 12, 357) annual herbland (patches).

Veg Condition Excellent.

Fire Age

Notes Transect parallel to track on both sides of pit; only in the Triodia epactia (Burrup form). The Indigofera monophylla (Burrup form) varies from +< 5%, and the Tephrosia rosea var. clementii does the same. Damper area near peg 1 has Tephrosia aff. supina > 80%. Site varies slightly in dryness/dampness.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	0.6-1.2 m		=B185
	<i>Acacia bivenosa</i>	+	<1 %	1-2.5 m		
	<i>Acacia coleii</i>	+	<1 %	1.2-2.2 m		Broad, =B185.
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	2 m		Under/next to
	<i>Adriana tomentosa</i>	+	<1 %	0.6-1.2 m		
	<i>Boerhavia gardneri</i>	+	<1 %	5 cm	B191-2,1	Juvenile {recorded
	<i>Chrysopogon fallax</i>	+	<1 %	60 cm		
	<i>Cleome viscosa</i>	+	<1 %	75 cm		Dead.
	<i>Corchorus walcottii</i>	+	<1 %	20-40 cm		=B185
	<i>Corymbia hamersleyana</i>	+/- 1	<1 %	1.5-4 m		
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	70 cm		
	<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	40-65 cm		
	<i>Dichrostachys spicata</i>	+	<1 %	1.3-1.8 m		Under/next to
	<i>Enchylaena tomentosa</i>	+	<1 %	1.1 m		
	<i>Eragrostis cumingii</i>	+	<1 %	50 cm		In damper spot.
	<i>Eriachne obtusa</i>	+	<1 %	60 cm		=B184
	<i>Euphorbia coghlanii</i>	+	<1 %	15 cm		=B185
	<i>Euphorbia</i> sp.	+	<1 %	2 cm		
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	60 cm		=B185
	<i>Fimbristylis</i> sp.	+	<1 %	5-10 cm		Perennial, =B185
	<i>Gomphrena cunninghamii</i>	+	<1 %	15 cm		{recorded twice}
	<i>Goodenia</i> sp.	+	<1 %	35 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+/- 1	<1 %	(0.5)1-3		
	<i>Hybanthus aurantiacus</i>	+	<1 %	40 cm		
	<i>Indigofera colutea</i>	+	<1 %	15-25 cm		
	<i>Indigofera linifolia</i>	> 5	5-10%	35 cm		
	<i>Indigofera linnaei</i>	+	<1 %	15 cm		Ind. enneasperma? No
	<i>Indigofera monophylla</i> (Burrup form)	+/- < 5	1-5%	40-70 cm		
	<i>Indigofera trita</i>	+	<1 %	30 cm		Almost prostrate- or
	<i>Mollugo molluginis</i>	+	<1 %	15-25 cm		
	<i>Mukia maderaspatana</i>	+	<1 %	1.3 m		Under/next to
	<i>Myoporum montanum</i>	+	<1 %	90 cm		Under/next to
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	70-90 cm		
	<i>Polymeria calycina</i>	+	<1 %	5-20 cm		
	<i>Portulaca pilosa</i>	+	<1 %	15 cm		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	65 cm		
	<i>Rhagodia eremaea</i>	+	<1 %	90cm-1.8		Under/next to
	<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	5 cm		=B185
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	0.5-1.2 m		Under/next to
	<i>Solanum phlomoides</i>	+	<1 %	75 cm		
	<i>Streptoglossa decurrens</i>	+	<1 %	10-50 cm		Common.
	<i>Swainsona formosa</i>	+	<1 %	30 cm		
	<i>Tephrosia</i> aff. <i>supina</i>	+	<1 %	20-45 cm		
	<i>Tephrosia rosea</i> var. <i>clementii</i>	+/- < 5	1-5%	40-70 cm		
	<i>Tinospora smilacina</i>	+	<1 %	3 m		
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	50 cm		Common.
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	35-65 cm		
	<i>Triodia angusta</i> (Burrup Form)	+	<1 %	0.6-1.1 m		
	<i>Triodia epactia</i> (Burrup Form)	> 50	50-75%	20-50 cm		=B185
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	40 cm		
	<i>Triumfetta clementii</i>	+	<1 %	15 cm		

Burrup Peninsula Site B192**Described by BM Date 5/06/00**

Location East end of valley below Jumpup.
Air Photo **Photo** **on Roll** **Video** **Y** **E Photo** 293,4

Photo Notes E-photo 300 taken of site from opposite slope.

AMG Zone 50 481469mE, 7725986mN 481501mE, 7726030mN

Habitat Rockpile above relatively wide gully.

Soil Clayey loam, lots of organic matter, pale brown with some calcerous nodules.

Rock Type

Vegetation *Brachychiton acuminatus*, *Terminalia supranatifolia*, *Clerodendrum tomentosum* scattered low trees to low open woodland over *Acacia coriacea* subsp. *coriacea*, *Flueggea virosa* subsp. *melanthesoides*, *Ficus platypoda* var. *A* high open shrubland over *Rhagodia eremaea*, *Abutilon* aff. *dioicum* (HD72-14), *Ipomoea costata* scattered shrubs over *Alectryon oleifolius*, *Abutilon fraseri* scattered low shrubs over *Triodia angusta* (Burrup form) very open hummock grassland with *Cassytha capillaris*, *Mukea maderaspatana* scattered lianes and *Dicliptera armata* very open herbland.

Veg Condition Healthy, undisturbed, some dead *Acacia coriacea* subsp. *coriacea*.

Fire Age No evidence of fire.

Notes Small pockets of vegetation, ~ 5-10 m diameter. Scattered trees, ~ 3 m of *Brachychiton acuminatus* and *Terminalia supranatifolia* less than 25% cover, dense layer of tall shrubs ~ 2 m dominated by *Acacia coriacea* subsp. *coriacea* and *Ficus platypoda* 40-50%, some smaller shrubs < 2 m, mainly *Abutilon* and *Rhagodia* < 10%, understorey dominated by *Dicliptera* and *Triodia angusta* (Burrup form) 50-60%.

Rock Pile Notes Rock size ~60-100 cm diameter, soil cover < 20%.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>dioicum</i> (HD72-14)	< 1	<1 %	90 cm	B192-2	
	<i>Abutilon fraseri</i>	< 1	<1 %	60 cm		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	3	1-5%	2.2 m		
	<i>Acacia</i> sp.	< 1	<1 %	1.5 m		
	<i>Alectryon oleifolius</i>	< 1	<1 %	60 cm		
	<i>Boerhavia gardneri</i>	< 1	<1 %	40 cm	B192-5	
	<i>Brachychiton acuminatus</i>	1-5	1-5%	4.5 m		
	<i>Cassytha capillaris</i>	< 1	<1 %	1 m	B192-3	
	<i>Clerodendrum tomentosum</i>	< 1	<1 %	4 m		E-photos, 291 and 292.
	<i>Commicarpus australis</i>	< 1	<1 %	40 cm		
	<i>Cymbopogon ambiguus</i>	< 1	<1 %	1.2 m	B192-7	
	<i>Dichrostachys spicata</i>	< 1	<1 %	2.5 m		
	<i>Dicliptera armata</i>	1	1-5%	60 cm		
	<i>Euphorbia</i> sp. (site 1163)	< 1	<1 %	15 cm	B192-6	
	<i>Ficus platypoda</i> var. <i>A</i>	< 1	<1 %	2.8 m	B192-1	Hairy.
	<i>Ficus virens</i> var. <i>sublanceolata</i>	1	1-5%	2 m	B192-10	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	< 1	<1 %	2.8 m		
	<i>Indigofera trita</i>	< 1	<1 %	30 cm		
	<i>Ipomoea costata</i>	< 1	<1 %	2.5 m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	< 1	<1 %	2 m	B192-15	
	<i>Melhanina</i> sp. <i>Fortescue</i> (M33-22)	< 1	<1 %	70 cm		
	<i>Mukia maderaspatana</i>	< 1	<1 %	1.1 m	B192-4	
	<i>Paspalidium tabulatum</i> (Burrup Form)	< 1	<1 %	10 cm	B192-13	
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	< 1	<1 %	15 cm		
	<i>Pterocaulon sphacelatum</i>	< 1	<1 %	80 cm	B192-8	
	<i>Rhagodia eremaea</i>	< 1	<1 %	2 m	B192-12	
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	60 cm		=B193, green, sticky,
	<i>Scaevola spinescens</i> (narrow form)	< 1	<1 %	2 m		
	<i>Solanum horridum</i>	< 1	<1 %	15 cm	B192-14	
	<i>Solanum phlomoides</i>	< 1	<1 %	25 cm	B192-9	
	<i>Terminalia supranatifolia</i>	1	1-5%	1.6 m		
	<i>Themeda</i> sp. Burrup (B84)	< 1	<1 %	50 cm	B192-11	
	<i>Tinospora smilacina</i>	< 1	<1 %	1.8 m		

<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	< 1	<1 %	1.7 m
<i>Trichosanthes cucumerina</i>	< 1	<1 %	30 cm
<i>Triodia angusta</i> (Burrup Form)	1-5	1-5%	40 cm
<i>Triumfetta clementii</i>	< 1	<1 %	40 cm

Burrup Peninsula Site B193

Described by MET **Date** 5/06/00

Location East end of valley below Jumpup.

Air Photo **Photo** **on Roll** **Video** Y **E Photo** 289-90,29

Photo Notes

AMG Zone 50 481332mE, 7725860mN 481386mE, 7725933mN

Habitat Gently sloping floor of narrow part of a valley between two ridges.

Soil Pebbly dark brown clayey fine sand amongst cobbles and round boulders.

Rock Type

Vegetation *Eucalyptus victrix* low open forest over *Acacia coriacea* subsp. *coriacea*, *Acacia colei* and *Acacia bivenosa* scattered tall shrubs over *Adriana tomentosa*, *Stylobasium spathulatum* and *Flueggea virosa* subsp. *melanthesoides* scattered shrubs over *Indigofera monophylla* (Burrup form) scattered low shrubs over *Triodia angusta* (Burrup form), *Themeda* sp. Burrup (B84) hummock/tussock grassland with *Dicliptera armata* very open herbland and *Rhychosia* sp. Burrup (82-1C), *Cassytha capillaris* open lianes.

Veg Condition Excellent, except where impacted by vehicle tracks.

Fire Age > 10 years.

Notes There is a track through the area recorded. The part of the valley recorded is that that has the *E. victrix* vegetation, this varies from about 5-10 m across. Next to it, there is a narrow strip that has scattered *Corymbia* over *Triodia angusta* (Burrup form). The valley has area where *E. victrix* is not on flow lines but on cobbly slopes over *Triodia angusta* (Burrup form) and with some *Corymbia* and very few shrubs. Sometimes a strip of *Themeda* sp. Burrup (B84) along base of rockpiles. There is a slight flow (patchily above surface) in the bottom of the valley. Where the stream braids, the areas between the braids have *Triodia angusta* hummock grassland. *Pluchea dentex* collected circa. 100 m upstream (see footage of pools), foliage bright mid green, fleshy, flowers pink, mulit-stemmed shrub 60 cm tall, 1 m across at: 50K 04 81 521, UTM: 77 26 690. About six plants, but area not searched. *Peplidium* sp. E (Flora of Australia) was at a creek downstream from this site in similar vegetation (green to reddish plants). A *Chara* species was recorded at the site (in a pool) but was not included in the analysis.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	75 cm	B193-3	
	<i>Acacia bivenosa</i>	+	<1 %	4.5 m		
	<i>Acacia colei</i>	+	<1 %	2.3 m		Broad.
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	< 1	<1 %	1.8-3 m		
	<i>Acacia orthocarpa</i>	+	<1 %	50 cm	B193-15	Fine.
	<i>Acacia pyrifolia</i> (green)	+	<1 %	0.8-2.3 m	B193-13	cf. (green)
	<i>Adriana tomentosa</i>	+	<1 %	1.5 m	B193-12	
	<i>Alectryon oleifolius</i>	+	<1 %	0.5-1 m		
	<i>Ammannia baccifera</i>	+	<1 %	25 cm		
	<i>Brachychiton acuminatus</i>	+	<1 %	1.1 m		
	<i>Cassytha capillaris</i>	> 5	5-10%	30 cm	B193-7	
	<i>Corchorus walcottii</i>	+	<1 %	45 cm	B193-5	
	<i>Corymbia hamersleyana</i>	+	<1 %	2.3-3.6 m		
	<i>Cymbopogon ambiguus</i>	+	<1 %	40-60 cm	B193-9	
	<i>Cyperus vaginatus</i>	+	<1 %	1.3 m		
	<i>Dichrostachys spicata</i>	+	<1 %	70 cm		
	<i>Dicliptera armata</i>	+/- 2	1-5%	30-70 cm		

<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	1.8 m		
<i>Eriachne tenuiculmis</i>	+	<1 %	50 cm	B193-8	
<i>Eucalyptus victrix</i>	> 30	25-33.3%	5-8 m		
<i>Euphorbia coghlanii</i>	+	<1 %	25 cm		
<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	80 cm	B193-14	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.6-1.8 m		
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	0.4-1.2 m	B193-6	
<i>Indigofera trita</i>	+	<1 %	30 cm		
<i>Ipomoea costata</i>	+	<1 %	40 cm		
<i>Melhania</i> sp. Burrup	+	<1 %	50 cm	B193-11	
<i>Mukia maderaspatana</i>	+	<1 %	1.2 m	B193-2	
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	15-45 cm		
<i>Rhynchosia</i> sp. Burrup (82-1C)	5-10	5-10%	0.4-1.1 m	B193-1	Green sticky
<i>Stemodia grossa</i>	+	<1 %	10-30 cm		
<i>Stylobasium spathulatum</i>	+	<1 %	(0.5)1-2	B193-10	
<i>Terminalia canescens</i>	+	<1 %	4 m		
<i>Themeda</i> sp. Burrup (B84)	5-10	5-10%	0.4-1 m	B193-4	
<i>Tinospora smilacina</i>	+	<1 %	1 m		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	20-70 cm		
<i>Triodia angusta</i> (Burrup Form)	> 40	33.3-50%	0.35-1.1		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm		
<i>Triumfetta clementii</i>	+	<1 %	35-55 cm		

Burrup Peninsula Site B194

Described by MET Date 5/06/00

Location

Air Photo Photo on Roll Video Y E Photo 304

Photo Notes

AMG Zone 50 481169mE, 7725744mN 481238mE, 7725805mN

Habitat Part of valley floor that forms a "shoulder" of colluvial/alluvial material well above flowline to a steep slope.

Soil Orange brown gravelly loam amongst cobbles about 50% of surface pebbles or angular cobbles.

Rock Type

Vegetation *Corymbia hamersleyana* low mallee woodland over *Acacia bivenosa*, *Acacia inaequilatera* scattered tall shrubs over *Acacia colei* and *Acacia orthocarpa* scattered shrubs over *Indigofera monophylla* (Burrup form), *Corchorus walcottii* scattered low shrubs over *Themeda* sp. Burrup (B84), *Triodia epactia* (Burrup form), *Triodia angusta* (Burrup form) tussock/hummock grassland.

Veg Condition Excellent (pristine?).

Fire Age > 10 years.

Notes Just to west slopes down and has small patch of *Eucalyptus xerothermica* (some *Triodia wiseana* (Burrup form)) and then back to =B194.

Corymbia "A" has thin platelets on trunk, pale grey over cinnamon tones, extends on to all except twigs.

Corymbia "B" has white bark on upper branches, thin grey platelets, cinnamon tones under them.

Rock Pile Notes

Species List:

Quad Name	Cover	C Class	Height	Specimen Notes
<i>Acacia bivenosa</i>	+/- 1	<1 %	(0.5)2-3.5	
<i>Acacia colei</i>	< 1	<1 %	1.9 m	Broad.
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.6-2 m	Next to or under
<i>Acacia inaequilatera</i>	< 1	<1 %	(0.5)1.5-3	
<i>Acacia orthocarpa</i>	+	<1 %	0.8-1.6 m	B194-4
<i>Adriana tomentosa</i>	+	<1 %	80 cm	
<i>Alectryon oleifolius</i>	+	<1 %	50 cm	Next to or under
<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	3 cm	
<i>Brachychiton acuminatus</i>	+	<1 %	1 m	Next to or under

<i>Cajanus cinereus</i>	+	<1 %	50 cm		Common.
<i>Cassia glutinosa</i>	+	<1 %	0.6-1.1 m		
<i>Cassytha capillaris</i>	+	<1 %	20-50 cm	B194-5	
<i>Corchorus walcottii</i>	+	<1 %	20-55 cm	B194-1	
<i>Corymbia hamersleyana</i>	>15-20	10-25%	3-5 m		
<i>Dichrostachys spicata</i>	+	<1 %	2.8 m		Next to or under
<i>Dicliptera armata</i>	+	<1 %	20-50 cm		Next to or under
<i>Eucalyptus xerothermica</i>	+	<1 %	5 m		
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	15-25 cm	B194-6	
<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	60 cm	B194-3	Next to or under
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2.1 m		
<i>Gossypium australe</i> (Whim Creek form)	+	<1 %	55 cm	B194-7	
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	0.6-1.8 m		
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	10 cm	B194-2	
<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	25-50 cm		
<i>Ipomoea costata</i>	+	<1 %	60 cm		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	0.6-1.1 m		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	15 cm		
<i>Pluchea tetranthera</i>	+	<1 %	50 cm	B194-8	Just out at western end.
<i>Pterocaulon sphacelatum</i>	+	<1 %	65 cm		
<i>Rhagodia eremaea</i>	+	<1 %	0.7 - ?		Next to or under
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	50 cm		[presumed to be
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	80 cm		
<i>Solanum horridum</i>	+	<1 %	25 cm	B194-5	Yellowish
<i>Streptoglossa decurrens</i>	+	<1 %	60 cm		Common.
<i>Stylobasium spathulatum</i>	+	<1 %	1.7 m		
<i>Terminalia supranitifolia</i>	+	<1 %	1.2 m		
<i>Themeda</i> sp. Burrup (B84)	+/- 40	33.3-50%	30-70 cm		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	60 cm		
<i>Triodia angusta</i> (Burrup Form)	< 5	1-5%	50-85 cm		
<i>Triodia epactia</i> (Burrup Form)	+/- 15	5-10%	20-45 cm		
<i>Triumfetta clementii</i>	+	<1 %	20 cm		

Burrup Peninsula Site B195

Described by BM **Date** 5/06/00

Location North side of gully/valley below Jumpup.

Air Photo **Photo** **on Roll** **Video** **Y** **E Photo** 305-7

Photo Notes 305, E. *xerothermica*; 306, E. *victrix*; 307, from opposite slope.

AMG Zone 50 481154mE, 7725777mN 481115mE, 7725749mN

Habitat Rockpile above broad gully/valley.

Soil Clayey loam, reddish-brown, lots of organic matter.

Rock Type

Vegetation *Eucalyptus victrix*, *Eucalyptus xerothermica*, *Ehretia saligna* var. *saligna*, *Clerodendrum tomentosum*, (*Brachychiton acuminatus*) scattered low trees over *Flueggea virosa* subsp. *melanthesoides*, *Acacia coriacea* subsp. *coriacea* and *Dicrostachys spicata* scattered tall shrubs over *Rhagodia eremaea*, *Abutilon* aff. *dioicum* (HD72-14), *Scaevola spinescens* (narrow form) scattered shrubs over *Triodia angusta* (Burrup form), *Triodia epactia* (Burrup form) scattered hummock grasses with *Dicliptera armata* very open herbland.

Veg Condition Good, very healthy.

Fire Age No evidence of fire.

Notes

Rock Pile Notes Slope facing ~ south. Rock sizes 20-60 cm, and many big diameter boulders in scree area, soil cover < 2 %.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>dioicum</i> (HD72-14)	< 1	<1 %	1.5 m		See B192 {on height}

<i>Acacia bivenosa</i>	< 1	<1 %	2.5 m	B195-3	Specimen checked
<i>Acacia coleii</i>	< 1	<1 %	2.6 m		Broad leaf.
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	1	1-5%	3 m		
<i>Alectryon oleifolius</i>	< 1	<1 %	3 m		
<i>Boerhavia</i> sp.	< 1	<1 %	20 cm		see B192.
<i>Brachychiton acuminatus</i>	< 1	<1 %	3.2 m		
<i>Capparis spinosa</i> var. <i>nummularia</i>	< 1	<1 %	15 cm		
<i>Cassytha capillaris</i>	< 1	<1 %	30 cm	B195-6	
<i>Cleome viscosa</i>	< 1	<1 %	50 cm		
<i>Clerodendrum tomentosum</i>	< 1	<1 %	3.2 m	B195-11	Red flowered tree.
<i>Commicarpus australis</i>	< 1	<1 %	60 cm		See B192.
<i>Corchorus walcottii</i>	< 1	<1 %	30 cm	B195-1	
<i>Cymbopogon ambiguus</i>	< 1	<1 %	50 cm	B195-10	
<i>Cynanchum floribundum</i>	< 1	<1 %	5 cm	B195-8	Heart leaf vine.
<i>Dichrostachys spicata</i>	< 1	<1 %	3.5 m		
<i>Dicliptera armata</i>	1-5	1-5%	30 cm		
<i>Ehretia saligna</i> var. <i>saligna</i>	< 1	<1 %	7 m		
<i>Eucalyptus victrix</i>	< 1	<1 %	6-8 m		
<i>Eucalyptus xerothermica</i>	< 1	<1 %	6 m	B195-13	Euc. With <i>Corymbia</i>
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1	1-5%	3 m		
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	< 1	<1 %	1.5 m		
<i>Indigofera trita</i>	< 1	<1 %	10 cm		
<i>Ipomoea costata</i>	< 1	<1 %	1 m		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	< 1	<1 %	80 cm	B195-9,7	Trifoliolate, one
<i>Mukia maderaspatana</i>	< 1	<1 %	1.4 m	B195-2	
<i>Nicotiana benthamiana</i>	< 1	<1 %	80 cm	B195-4	
<i>Paspalidium tabulatum</i> (Burrup Form)	< 1	<1 %	40 cm		See B192.
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	< 1	<1 %	40 cm		
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	< 1	<1 %	1.5 m		
<i>Plumbago zeylanica</i>	< 1	<1 %	60 cm		
<i>Pterocaulon sphacelatum</i>	< 1	<1 %	60 cm		Common.
<i>Rhagodia eremaea</i>	2	1-5%	1.5 m		See B192.
<i>Rhynchosia</i> sp. Burrup (82-1C)	< 1	<1 %	90 cm	B195-12	Green, sticky.
<i>Scaevola spinescens</i> (narrow form)	< 1	<1 %	2 m		
<i>Solanum horridum</i>	< 1	<1 %	15 cm		See B192.
<i>Terminalia supranitifolia</i>	< 1	<1 %	20cm-1.5	B195-5	Juvenile, {recorded
<i>Themeda</i> sp. Burrup (B84)	< 1	<1 %	35 cm		See B192.
<i>Tinospora smilacina</i>	< 1	<1 %	20 cm		See B192.
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	< 1	<1 %	50 cm		
<i>Trichosanthes cucumerina</i>	< 1	<1 %	2 m		See B192.
<i>Triodia angusta</i> (Burrup Form)	1	1-5%	60 cm		
<i>Triodia epactia</i> (Burrup Form)	< 1	<1 %	60 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	< 1	<1 %	40 cm		
<i>Triumfetta clementii</i>	< 1	<1 %	15 cm		

Burrup Peninsula Site B196

Described by BM **Date** 5/06/00

Location North side of track heading up valley below Jumpup.

Air Photo **Photo** **on Roll** **Video** **N E Photo** 308-9

Photo Notes

AMG Zone 50 481105mE, 7725586mN 481149mE, 7725631mN

Habitat Broad valley adjacent to *Eucalyptus victrix* creek.

Soil Sandy loam, mid-light brown.

Rock Type

Vegetation *Eucalyptus xerothermica* low mallee woodland over *Acacia inaequilatera*, *Acacia coleii*, *Acacia bivenosa* scattered tall shrubs over *Dicrostachys spicata*, *Rhagodia eremaea*, *Acacia coriacea* subsp. *coriacea* scattered shrubs over *Triodia wiseana* (Burrup form), (*Triodia angusta* (Burrup

form)), *Themeda* sp. Burrup (B84) hummock/tussock grassland.

Veg Condition Track goes through plot, otherwise undisturbed.

Fire Age Old, no evidence of fire.

Notes Some large patches with no trees, *Triodia wiseana* (Burrup form) grassland.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	< 1	<1 %		B196-3	
	<i>Acacia bivenosa</i>	< 1	<1 %	1-3 m		
	<i>Acacia coleii</i>	< 1	<1 %	1-2.5 m		Broad.
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	< 1	<1 %	1.2 m		
	<i>Acacia inaequilatera</i>	< 1	<1 %	2-3 m		
	<i>Alectryon oleifolius</i>	< 1	<1 %	90 cm		
	<i>Boerhavia gardneri</i>	< 1	<1 %	40 cm	B196-5	
	<i>Bonamia media</i> var. <i>villosa</i>	< 1	<1 %	4 cm	B196-10	{recorded twice}
	<i>Cassia glutinosa</i>	< 1	<1 %	1.1 m		
	<i>Corchorus walcottii</i>	< 1	<1 %	15 cm		
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	< 1	<1 %	15 cm		
	<i>Dichrostachys spicata</i>	< 1	<1 %	70 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	< 1	<1 %	95 cm		
	<i>Eucalyptus xerothermica</i>	+/- 15	10-25%	3-5 m		
	<i>Euphorbia coghlanii</i>	< 1	<1 %	10 cm	B196-9	{recorded twice}
	<i>Euphorbia</i> sp. (BPBS10-50)	< 1	<1 %	15 cm	B196-2	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	< 1	<1 %	4 cm		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	< 1	<1 %	1 m		
	<i>Gossypium australe</i> (Burrup Peninsula form)	< 1	<1 %	50 cm	B196-1	
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	< 1	<1 %	25 cm	B196-4	
	<i>Indigofera colutea</i>	< 1	<1 %	20 cm	B196-6	
	<i>Indigofera monophylla</i> (Burrup form)	< 1	<1 %	80 cm		
	<i>Indigofera trita</i>	< 1	<1 %	5 cm		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	< 1	<1 %	20 cm		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	< 1	<1 %	15 cm		
	<i>Polygala</i> sp. (M23-2)	< 1	<1 %	2 cm	B196-11	
	<i>Rhagodia eremaea</i>	< 1	<1 %	2 m		
	<i>Rhynchosia</i> cf. <i>minima</i>	< 1	<1 %	5 cm	B196-8	Grey, non-sticky.
	<i>Streptoglossa decurrens</i>	< 1	<1 %	30 cm		
	<i>Swainsona formosa</i>	< 1	<1 %	45 cm		
	<i>Swainsona pterostylis</i>	< 1	<1 %	20 cm		
	<i>Tephrosia supina</i>	< 1	<1 %	5 cm	B196-7	
	<i>Themeda</i> sp. Burrup (B84)	< 5	1-5%	40 cm		=B193
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	< 1	<1 %	10 cm		
	<i>Triodia angusta</i> (Burrup Form)	+/-2	1-5%	70cm		
	<i>Triodia wiseana</i> (Burrup Form)	<= 60	50-75%	40 cm		
	<i>Triumfetta clementii</i>	< 1	<1 %	15 cm		

Burrup Peninsula Site B216

Described by VLL **Date** 12/06/00 **Size** 50 x 50 m

Location DRD corridor, approx. 500 m west of Burrup Road. Upper hill slope (maybe just north outside corridor) 150 m north of peg.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 475465mE, 7719708mN 475539mE, 7719727mN 475498mE, 7719695mN 475505mE, 7719669mN

Habitat Upper stony rocky hill slope facing E-SE, sloping E-SE to shallow gully, then down to Burrup Road. Very rocky/stony.

Soil Skeletal red-brown silty loam beneath rocky mantle.

Rock Type Fine grained grey rhyodacite, weathering red-brown. Rocks are block type, 20-30 cm diameter,

and form a uniformly consistent mantle over slope.

Vegetation *Grevillea pyramidalis* subsp. *pyramidalis*, *Acacia bivenosa*, *Acacia elachantha* open shrubland over *Triodia epactia* (Burrup form) closed hummock grassland with *Rhynchosia* cf. *minima*, *Vigna* sp. Burrup (B18) very open lianes.

Veg Condition Excellent.

Fire Age Not obvious.

Notes Relatively dense *T. epactia* (Burrup form) grassland over very consistent stony/rocky mantle.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	20 cm	B216-4,9	{recorded twice}
	<i>Acacia bivenosa</i>	< 2	1-5%	1.5 m		
	<i>Acacia elachantha</i>	< 2	1-5%	1.5 m		Hairy variant.
	<i>Boerhavia gardneri</i>	+	<1 %	1 m	B216-6	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	30 cm	B216-5	
	<i>Bonamia pannosa</i>	+	<1 %	3 cm		
	<i>Cenchrus ciliaris</i>	+	<1 %			Rare, nested beside
	<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)	+	<1 %			Non-hairy, besides
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	20 cm	B216-11	
	<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	30 cm		
	<i>Cymbopogon ambiguus</i>	+	<1 %	45 cm	B216-3	
	<i>Euphorbia coghlanii</i>	+	<1 %	25 cm	B216-7	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10 cm		
	<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
	<i>Goodenia microptera</i>	+	<1 %	30 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	2	1-5%	1.25 m		
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	45 cm	B216-8	
	<i>Hybanthus aurantiacus</i>	+	<1 %	25 cm		
	<i>Indigofera linifolia</i>	+	<1 %	25 cm		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	30 cm		
	<i>Indigofera trita</i>	+	<1 %	20 cm		
	<i>Mukia maderaspatana</i>	+	<1 %			Vine.
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		
	<i>Polycarpaea longiflora</i> (red form)	+	<1 %	25 cm		
	<i>Polygala</i> aff. <i>isingii</i>	+	<1 %	1.5 cm		As previously collected.
	<i>Pterocaulon sphaeranthoides</i>	+	<1 %	20 cm		
	<i>Rhynchosia</i> cf. <i>minima</i>	2-5	1-5%			Grey green
	<i>Solanum horridum</i>	+	<1 %	25 cm	B216-10	
	<i>Tephrosia</i> aff. <i>supina</i>	+	<1 %	35 cm		
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	25 cm	B216-12	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	1 m		
	<i>Triodia epactia</i> (Burrup Form)	80	>75%	35-40 cm	B216-1	
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	45 cm		
	<i>Triumfetta clementii</i>	+	<1 %	25 cm		
	<i>Vigna</i> sp. Burrup (B18)	2-5	1-5%		B216-2	Creepier

Burrup Peninsula Site B217

Described by VLL **Date** 12/06/00 **Size** 70 x 30 m

Location Approx. 500 m west from Burrup Road, hillslope using DRD corridor centre-line pegs as centre of plot.

Air Photo **Photo** 25 **on Roll** F5 **Video** N **E Photo**

Photo Notes

AMG Zone 50 475385mE, 7719611mN 475459mE, 7719580mN

Habitat East facing slope, upper-mid level with consistent layer of rocks, stones, and small rock outcrops.

Soil Red-brown silty soil beneath consistent layer of rock.

Rock Type Block and rounded rocks, 20-40 cm diameter, fine-grained grey rhyadocite, weathering red-brown.

Vegetation *Grevillea pyramidalis* subsp. *pyramidalis*, *Acacia colei* high open shrubland over *Triodia epactia* (Burrup form), *Cymbopogon ambiguus* hummock/tussock grassland with *Vigna* sp. Burrup (B18), *Rhynchosia* cf. *minima* very open lianes.

Veg Condition Excellent.

Fire Age Not evident.

Notes *Cymbopogon/Triodia epactia* (Burrup form) slope: unusual to have so much *Cymbopogon* in a slope habitat, there is another slope ~ 200 m to north of this site that is the same. Transect is 70 x 30 m to avoid rockpiles and gullies. Area generally is comprised of undulating narrow slopes with gullies and rockpiles, therefore difficult to find "clean" 50 x 50 m.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	25 cm		As for 216.
	<i>Acacia colei</i>	< 2	1-5%	1.25 m	B217-2	Hairy
	<i>Acacia elachantha</i>	+	<1 %	1.25 m	B217-4	
	<i>Boerhavia</i> sp.	+	<1 %	1 m		As for 216.
	<i>Commelina ensifolia</i>	+	<1 %	30 cm		
	<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	20 cm		
	<i>Crotalaria trifoliastrum</i>	+	<1 %	20 cm		As for 216.
	<i>Cymbopogon ambiguus</i>	30-35%	33.3-50%		B217-1	
	<i>Cynanchum floribundum</i>	+	<1 %			Vine.
	<i>Euphorbia coghlanii</i>	+	<1 %	25 cm		As for 216.
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	< 2	1-5%	1 m		
	<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	1 m		
	<i>Hybanthus aurantiacus</i>	+	<1 %	30 cm		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	35 cm		
	<i>Mukia maderaspatana</i>	+	<1 %			Vine.
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	35 cm		
	<i>Polygala</i> aff. <i>isingii</i>	+	<1 %	2 cm		<i>Polygala</i> ins?
	<i>Pterocaulon sphaeranthoides</i>	+	<1 %	25 cm		
	<i>Rhynchosia</i> cf. <i>minima</i>	3-5%	1-5%			Grey green.
	<i>Solanum phlomoides</i>	+	<1 %	45 cm	B217-3	
	<i>Tephrosia</i> aff. <i>supina</i>	+	<1 %	40 cm		
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	20 cm		As for 216.
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	80 cm		
	<i>Triodia epactia</i> (Burrup Form)	30-35%	33.3-50%			
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	35 cm		
	<i>Triumfetta clementii</i>	+	<1 %	25 cm		
	<i>Vigna</i> sp. Burrup (B18)	3-5%	1-5%			Creeper, see 216.

Burrup Peninsula Site B218

Described by VLL **Date** 12/06/00

Location DRD corridor, ~ 1.25 km west of Burrup Road - shallow valley beneath rocky hillslopes running south from centre of corridor with narrow stony, cobbly drain at very centre.

Air Photo **Photo** 1 **on Roll** F6 **Video** N **E Photo**

Photo Notes

AMG Zone 50 475178mE, 7719736mN 475193mE, 7719699mN

Habitat Shallow valley floor between two hills, relatively protected running north-south. Hillslopes have rocky sides, and rocks included near valley as it narrows. Continues as a branch from B219 (see sketch B219).

Soil Grey brown alluvial soil with cobbles, 5-10 cm diameter.

Rock Type Cobbles mostly 5-10 cm, scattered larger blocky rocks to 20 cm.

Vegetation *Grevillea pyramidalis* subsp. *pyramidalis*, *Ipomoea costata* open shrubland over *Corchorus walcottii*, *Indigofera monophylla* (Burrup form), *Tephrosia rosea* var. *clementii* low open shrubland over *Triodia angusta* (Burrup Form) closed hummock grassland with *Rhynchosia* sp. Burrup (82-1C) very open lianes.

Veg Condition**Fire Age**

Notes The valley is dominated by dense *Triodia angusta* (Burrup form) grassland, but a very narrow drain runs through the *T. angusta* (Burrup form), producing species associations with a deeper drainage system. These are indicated on the sheets.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia elachantha</i>	+	<1 %	25 cm		As for B217.
	<i>Acacia orthocarpa</i>	+	<1 %	35 cm		Rarely.
	<i>Bidens bipinnata</i>	+	<1 %		B218-12	Deeply lobed leaf plant.
	<i>Boerhavia gardneri</i>	+	<1 %		B218-3	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	5 cm	B218-6	
	<i>Cenchrus ciliaris</i>	+	<1 %	30 cm		Rare.
	<i>Corchorus walcottii</i>	2-5	1-5%	30 cm	B218-2	
	<i>Dentella asperata</i>	+	<1 %		B218-7	
	<i>Eriachne tenuiculmis</i>	+	<1 %	35 cm	B218-4	muc/tenu?
	<i>Fimbristylis elegans</i>	+	<1 %	15 cm		
	<i>Goodenia microptera</i>	+	<1 %	30 cm		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	2-3%	1-5%	1 m		
	<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	1 m		
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	25 cm	B218-5	
	<i>Indigofera monophylla</i> (Burrup form)	2-3%	1-5%	35-40		
	<i>Indigofera trita</i>	+	<1 %			
	<i>Ipomoea costata</i>	2-3%	1-5%	1.25 m		
	<i>Mukia maderaspatana</i>	+	<1 %			Vine.
	<i>Pterocaulon sphacelatum</i>	+	<1 %	30 cm		
	<i>Ptilotus fusiformis</i> var. <i>fusiformis</i>	+	<1 %		B218-1	fus/gau?
	<i>Rhynchosia</i> sp. Burrup (82-1C)	<5	1-5%			
	<i>Streptoglossa decurrens</i>	+	<1 %	30 cm		
	<i>Tephrosia rosea</i> var. <i>clementii</i>	1-2%	1-5%	45 cm		
	<i>Triodia angusta</i> (Burrup Form)	70-80	>75%	to 1 m		
	<i>Triodia epactia</i> (Burrup Form)	+	<1 %	35 cm		
	<i>Triumfetta clementii</i>	+	<1 %	25 cm		

Burrup Peninsula Site B219

Described by VLL **Date** 12/06/00

Location DRD corridor, east-west gully parallel to centre line, approx. 1.5 km from Burrup Road.

Air Photo **Photo** 2 **on Roll** F6 **Video** N **E Photo**

Photo Notes

AMG Zone 50 475178mE, 7719736mN 475251mE, 7719748mN

Habitat Narrow (5-7 m) drainage gully east-west beneath two hills, with alternating *Triodia* slope and rocky ridges (small terrace like). Gully is shallow, no distinct drain line.

Soil Red brown silty loam.

Rock Type Generally 10-20 cm weathered red-brown.

Vegetation *Ipomoea costata*, (*Acacia coleii*) shrubland over *Indigofera monophylla* (Burrup form), *Corchorus walcottii* low open heath over *Triodia epactia* (Burrup form), *Cymbopogon ambiguus* hummock/tussock grassland.

Veg Condition Excellent.

Fire Age Not obvious.

Notes Transect 5-7 m x 85 m - in accordance with habitat.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	20 cm		Type as previously

<i>Acacia coleii</i>	< 2	1-5%	1.25 m	B219-6	Hairy variety.
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1 m		Narrow phyllodes
<i>Acacia elachantha</i>	+	<1 %	1.25 m	B219-3	
<i>Boerhavia gardneri</i>	+	<1 %	1 m		AS for B218.
<i>Cheilanthes</i> sp.	+	<1 %	25 cm		Non-hairy.
<i>Commelina ensifolia</i>	+	<1 %	35 cm		
<i>Corchorus walcottii</i>	10	5-10%	35 cm		As for B218.
<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	35 cm		
<i>Cymbopogon ambiguus</i>	15-20%	10-25%	35-40 cm	B219-4	
<i>Enchylaena tomentosa</i>	+	<1 %	1 m		
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	20 cm	B219-7	
<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
<i>Goodenia microptera</i>	+	<1 %	30 cm		
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	< 2	1-5%	1.1 m		
<i>Hakea lorea</i> ssp. <i>lorea</i>	+	<1 %	1.5 m		
<i>Indigofera monophylla</i> (Burrup form)	30-50	33.3-50%	35-40 cm	B219-5	Smaller leaf.
<i>Indigofera trita</i>	+	<1 %	30 cm		
<i>Ipomoea costata</i>	10-15%	10-25%	1-1.25 m		
<i>Mukia maderaspatana</i>	+	<1 %		B219-2	Vine.
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		{recorded twice}
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm		
<i>Plumbago zeylanica</i>	+	<1 %	1 m		
<i>Polycarpaea longiflora</i> (red form)	+	<1 %	25 cm		
<i>Pterocaulon sphaeranthoides</i>	+	<1 %	35 cm		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %			Grey green.
<i>Solanum horridum</i>	+	<1 %	5 cm	B219-1	
<i>Tephrosia</i> aff. <i>supina</i>	+	<1 %	40 cm		
<i>Terminalia supranitifolia</i>	+	<1 %	1 m		
<i>Tinospora smilacina</i>	+	<1 %			Vine.
<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	30 cm		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	30 cm		
<i>Triodia epactia</i> (Burrup Form)	40-50%	33.3-50%	30-35 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	45 cm		
<i>Triumfetta clementii</i>	+	<1 %	25 cm		
<i>Vigna</i> sp. Burrup (B18)	+	<1 %			As for B216.

Burrup Peninsula Site B220

Described by VLL **Date** 12/06/00

Location Terminalia gully on northern side of DRD corridor, approx. 500 m from Burrup Road.

Air Photo **Photo** 3 **on Roll** F6 **Video** N **E Photo**

Photo Notes

AMG Zone 50 475519mE, 7719845mN 475566mE, 7719777mN

Habitat Rocky gully beneath steeper rockpiles, and rocky hillslopes running west-east down toward Burrup Road.

Soil Alluvial grey-brown medium fine loam.

Rock Type Small cobbles to boulders, 25-30 cm, fine-grained, grey.

Vegetation *Terminalia canescens* low woodland to low open forest over *Abutilon fraseri* low open shrubland over *Cyperus vaginatus*, *Cyperus bifax*, *Triodia epactia* (Burrup form) sedgeland/hummock grassland with *Sesbania cannabina* tall very open herbland and *Rhynchosia* sp. Burrup (82-1C) open lianes.

Veg Condition Excellent, no weeds recorded.

Fire Age Not obvious.

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
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<i>Abutilon fraseri</i>	10	5-10%	25-30 cm	B220-1	{recorded twice}
<i>Abutilon lepidum</i>	+	<1 %	20 cm		Type.
<i>Acacia bivenosa</i>	+	<1 %	1.75 m		Bright green variety.
<i>Acacia elachantha</i>	+	<1 %	1 m		
<i>Ammannia baccifera</i>	+	<1 %	10 cm		
<i>Brachychiton acuminatus</i>	+	<1 %	3.5 m		
<i>Commelina ensifolia</i>	+	<1 %	20 cm		
<i>Cyperus bifax</i>	5-10%	5-10%	1 m		
<i>Cyperus vaginatus</i>	20-30%	10-25%	1 m		
<i>Dichrostachys spicata</i>	+	<1 %	1 m		
<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2 m		
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	3 m		
<i>Indigofera trita</i>	+	<1 %	20 cm		
<i>Ipomoea costata</i>	+	<1 %	1 m		
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	20 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm		
<i>Plumbago zeylanica</i>	+	<1 %	80 cm		
<i>Pterocaulon sphaeranthoides</i>	+	<1 %	25 cm		
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	1.75 m		{recorded twice}
<i>Rhynchosia</i> sp. Burrup (82-1C)	20-30	10-25%		B220-2	Acute viscid creeper.
<i>Sesbania cannabina</i>	3-5%	1-5%	1 m		
<i>Stemodia grossa</i>	+	<1 %	30 cm		
<i>Stylidium fluminense</i>	+	<1 %	15 cm		
<i>Terminalia canescens</i>	30-40%	33.3-50%	to 5 m		
<i>Terminalia supranitifolia</i>	+	<1 %	1.75 m		
<i>Tinospora smilacina</i>	+	<1 %			Vine.
<i>Triodia epactia</i> (Burrup Form)	10-20	10-25%	30 cm		
<i>Triumfetta clementii</i>	+	<1 %	10 cm		

Burrup Peninsula Site B230

Described by VLL **Date** 12/06/00

Location Northern end of Talu valley along drainage line (western side Syntroleum pipeline).

Air Photo **Photo** 8 **on Roll** **Video** N **E Photo**

Photo Notes Photo 8 (6 & 7 of Epic (Energy) "weedline").

AMG Zone 50 476650mE, 7720527mN 476683mE, 7720576mN

Habitat Stony drainage gully running N-S along toe of rockpile ridge.

Soil Deepish dark red-grey alluvial soil.

Rock Type Grey and red cobbles and stones.

Vegetation *Eucalyptus victrix*, (*Terminalia canescens*) low woodland over *Flueggea virosa* subsp. *melanthesoides*, *Acacia coriacea* subsp. *coriacea* scattered shrubs over *Cyperus vaginatus*, *Cyperus bifax*, *Triodia angusta* (Burrup form), *Triodia epactia* (Burrup form) sedge/land/hummock grassland with *Sesbania cannabina* tall annual herbland and *Stemodia grossa*, *Dicliptera armata* open annual herbland.

Veg Condition Very good, occasional Kapok and Buffel.

Fire Age Not obvious.

Notes Drainage line runs along toe of rockpile ridge, 1.5 - 4 m wide, some water still in three pools, cobbles and stony base.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	20 cm	B230-2	{recorded twice}
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1 m	B230-3	
	<i>Aerva javanica</i>	+	<1 %	45 cm		
	<i>Ammannia baccifera</i>	+	<1 %	3 cm		
	<i>Cenchrus ciliaris</i>	+	<1 %	30 cm		
	<i>Commelina ensifolia</i>	+	<1 %	30 cm		

Corchorus tridens	+	<1 %	15 cm		
Cyperus bifax	15	10-25%	1 m		
Cyperus vaginatus	25	25-33.3%	1 m		
Dicliptera armata	10	5-10%	30 cm		
Eriachne tenuiculmis	+	<1 %	35 cm	B230-5	
Eucalyptus victrix	10-20	10-25%	3-5 m		
Flueggea virosa subsp. melanthesoides	+	<1 %	1.75 m		
Indigofera linifolia	+	<1 %	20 cm		
Phyllanthus maderaspatensis var. angustifolius	+	<1 %	30 cm		
Pluchea rubelliflora	+	<1 %	3 cm	B230-1	
Rhynchosia cf. minima	+	<1 %			Grey green creeper
Rhynchosia sp. Burrup (82-1C)	+	<1 %			Viscid creeper
Sesbania cannabina	30-50	33.3-50%	1.5-2 m		
Sida aff. fibulifera (oblong; MET 15 220)	+	<1 %		B230-6	
Stemodia grossa	10-20	10-25%	35 cm		
Terminalia canescens	+	<1 %	2 m		
Trichosanthes cucumerina	+	<1 %			Vine.
Triodia angusta (Burrup Form)	30	25-33.3%	1 m		
Triodia epactia (Burrup Form)	15	10-25%	30 cm		

Burrup Peninsula Site B231

Described by VLL **Date** 27/06/00

Location South over high rocky ridge, south side of Eucalyptus xerothermica valley.

Air Photo **Photo** 9 **on Roll** F6 **Video** N **E Photo**

Photo Notes

AMG Zone 50 481606mE, 7725881mN 481589mE, 7725936mN 481580mE, 7725859mN

Habitat Lower hill slope of upper hills, facing south-west, which terminates in a wide rocky plateau. Grassed area of slope is narrow between rockpiles on ridge therefore sample area had to be fitted into an appropriate area.

Soil Skeletal red-brown silty loam with small rocks, stones 10-20 cm diameter.

Rock Type

Vegetation Ipomoea costata, Acacia bivenosa scattered shrubs over Acacia elachantha scattered low shrubs over Themeda sp. Burrup (B84), Triodia epactia (Burrup form) closed tussock/hummock grassland.

Veg Condition Excellent.

Fire Age Not obvious.

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	< 2	1-5%	1.25 m		
	Acacia elachantha	< 2	1-5%	60 cm		Hairy.
	Boerhavia gardneri	+	<1 %	40 cm	B231-1	
	Bonamia pannosa	+	<1 %	2 cm		
	Bulbostylis barbata	+	<1 %	15 cm		
	Cajanus cinereus	< 2	1-5%	10 cm		
	Cassia glutinosa	+	<1 %	45 cm		
	Corchorus walcottii	+	<1 %	35 cm	B231-6	
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	10 cm		
	Dichanthium sericeum subsp. humilium	+	<1 %	15 cm	B231-2	
	Euphorbia sp. (site 1163)	+	<1 %	5 cm	B231-4	
	Evolvulus alsinoides var. villosicalyx	+	<1 %	10 cm		
	Gomphrena cunninghamii	+	<1 %	10 cm		
	Grevillea pyramidalis subsp. pyramidalis	< 2	1-5%	30 cm		
	Heliotropium cunninghamii	+	<1 %	15 cm	B231-3	
	Indigofera monophylla (Burrup form)	+	<1 %	45 cm		

<i>Ipomoea costata</i>	< 2	1-5%	1.5 m	
<i>Mukia maderaspatana</i>	+	<1 %		Vine.
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	15 cm	
<i>Polygala</i> sp. (M23-2)	+	<1 %	3 cm	B231-5
<i>Pterocaulon sphaeranthoides</i>	+	<1 %	30 cm	
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %		Grey green creeping.
<i>Solanum phlomoides</i>	+	<1 %	40 cm	
<i>Streptoglossa decurrens</i>	+	<1 %	30 cm	
<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %	5 cm	
<i>Themeda</i> sp. Burrup (B84)	70-80	>75%	30-45 cm	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	10 cm	
<i>Triodia epactia</i> (Burrup Form)	10-15%	10-25%	30-35 cm	
<i>Triumfetta clementii</i>	+	<1 %	5 cm	

Burrup Peninsula Site B232

Described by VLL **Date** 27/06/00

Location Rockpile adjacent to B231.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 481580mE, 7725859mN 481579mE, 7725964mN

Habitat South-west facing high rocky slope - south side of E. xerothermica valley and adjacent to B231, Themeda sp. Burrup (B84) grassland corridor.

Soil Skeletal

Rock Type Large block type, fine grained, grey inside, weathering rough red outside with stripes of quartz like material.

Vegetation Eucalyptus xerothermica, Brachychiton acuminatus low scattered trees over Acacia coriacea subsp. coriacea, Rhagodia preissii subsp. obovata, Scaevola spinescens (narrow form), Flueggea virosa subsp. melanthesoides, Abutilon aff. dioicum (HD72-14) shrubland over Triodia angusta (Burrup form), (Triodia epactia (Burrup form)) open hummock grassland.

Veg Condition Excellent.

Fire Age Not obvious.

Notes Shrubs and woodland in rock pockets, one patch of soil in larger pocket with Triodia angusta (Burrup form) (also occurred among rocks).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. dioicum (HD72-14)	+	<1 %	1.25 m	B232-1	
	Abutilon fraseri	+	<1 %	35 cm		
	Acacia coriacea subsp. coriacea	<15%	10-25%	1.5 m		
	Alectryon oleifolius	+	<1 %	85 cm		
	Brachychiton acuminatus	+	<1 %	2 m		In soil pocket.
	Cassia glutinosa	+	<1 %	1 m		
	Commicarpus australis	+	<1 %	1 m		Vine.
	Corchorus walcottii	+	<1 %	35 cm		As for B?
	Dichrostachys spicata	+	<1 %	1 m		In soil pocket.
	Dicliptera armata	+	<1 %	35 cm		
	Ehretia saligna var. saligna	+	<1 %	1.75 m		In soil pocket.
	Eucalyptus xerothermica	< 2%	1-5%	2 m	B232-2	
	Flueggea virosa subsp. melanthesoides	+	<1 %	1.5 m		
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	1 m		In soil pocket.
	Ipomoea costata	+	<1 %	60 cm		In soil pocket.
	Jasminum didymum subsp. lineare	+	<1 %	40 cm		In soil pocket.
	Melhania sp. Burrup	+	<1 %	35 cm	B232-3	
	Mukia maderaspatana	+	<1 %			Vine.
	Paspalidium tabulatum (Burrup Form)	+	<1 %	30 cm		

Rhagodia preissii subsp. obovata	5-10%	5-10%	1.25 m	
Rhynchosia cf. minima	+	<1 %		Grey green creeper.
Scaevola spinescens (narrow form)	<3%	1-5%	1 m	Glabrous green.
Terminalia supranitifolia	+	<1 %	1 m	
Themeda sp. Burrup (B84)	+	<1 %	35-40 cm	In soil pocket.
Tinospora smilacina	+	<1 %		Vine.
Triodia angusta (Burrup Form)	10	10-25%	40-60 cm	In soil pocket. {recorded
Triodia epactia (Burrup Form)	+	<1 %	35 cm	

Burrup Peninsula Site B233

Described by VLL **Date** 27/06/00

Location Plateau south of Eucalyptus xerothermica valley.

Air Photo **Photo** Y **on Roll** F6 **Video** N **E Photo**

Photo Notes Photos 10-16 of "wetland" and 14 of creek feeding it.

AMG Zone 50 481587mE, 7725762mN 481516mE, 7725770mN

Habitat Open flat wetland area occurs on a plateau in a slight basin. Plateau is broad with rounded boulders and large areas of flat rock outcrop. Wetland is open, flat with boulders, and areas with flat rock. See notes.

Soil Grey alluvial.

Rock Type Grey boulders, and flat rocks, plus lots of calcrete.

Vegetation Cyperus vaginatus, Schoenus falcatus, Fimbristylis rara, Schoenoplectus litoralis, Eragrostis sp. Mt Montagu (MET 15246) sedgland/tussock grassland with Stenotaphrum secundatum, Pluchea rubelliflora, Stylidium fluminense, Peplidium sp. E (Flora of Australia) herbland.

Veg Condition Excellent.

Fire Age N/A

Notes Wetland appears to be springfed and permanent. Upstream to the southeast it is fed by a creek through a rocky gully from the east. Part of this creek was relatively wide (2-3 m) and deep (50-60 cm) and had permanent weeds. The creek then disappears below ground further along to the east. Sample stays within wet areas, 20-30 m wide.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia ampliceps	+	<1 %	0.45-1.25		
	Acacia coriacea subsp. coriacea	+	<1 %	1 m		
	Adriana tomentosa	+	<1 %	0.45-1 m		
	Ammannia baccifera	+	<1 %	10-25 cm		
	Cyperus vaginatus	15-20%	10-25%	50-65 cm		
	Eleocharis geniculata	<5%	1-5%		B233-4	
	Eragrostis sp. Mt Montagu (MET 15,246)	15-20%	10-25%	1-2 cm	B233-8	
	Fimbristylis rara	10-15%	10-25%	15 cm	B233-5,2	
	Flaveria australasica	+	<1 %		B233-9	Very robust.
	Peplidium sp. E (Flora of Australia)	10-30%	10-25%		B233-7	Mat plant.
	Pluchea dentex	+	<1 %	45 cm	B233-10	
	Pluchea rubelliflora	10-20	10-25%	35-40 cm		
	Schoenoplectus litoralis	10-15%	10-25%	1 m	B233-1	Tall thick.
	Schoenus falcatus	15-20%	10-25%	65-70 cm	B233-3	Reed/red?
	Sesbania cannabina	+	<1 %	2 m		
	Stenotaphrum secundatum	20-30	25-33.3%	40 cm	B233-11	
	Stylidium fluminense	30-40	25-33.3%	20-25 cm		
	Swainsona pterostylis	+	<1 %	50 cm		
	Triodia angusta (Burrup Form)	+	<1 %	60-70 cm		Wet area bordered by

Burrup Peninsula Site B234

Described by VLL **Date** 26/06/00

Location Western side of Eucalyptus xerothermica valley, northern side of track.
Air Photo **Photo** 26 **on Roll** **Video** N **E Photo**
Photo Notes
AMG Zone 50 479687mE, 7724991mN 479629mE, 7725019mN
Habitat Narrow plateau corridor bordered each side by drainage gullies and rocky hill slopes (corridor runs east west).
Soil Pinky-red silty colluvial loam with stones 3-5 cm diameter.
Rock Type Grey weathering red-brown, 3-5 cm diameter, blocky.
Vegetation Grevillea pyramidalis subsp. pyramidalis, (Acacia bivenosa, Acacia elachantha) open heath over Tephrosia rosea var. clementii low open heath over Triodia epactia (Burrup form), Triodia angusta (Burrup form) hummock grassland.
Veg Condition Excellent.
Fire Age Not evident.
Notes Plateau containing Grevillea pyramidalis subsp. pyramidalis is narrow (~20-25 m wide x 200 m long) before it slopes on either side into Triodia angusta (Burrup form) grassland and associated gullies.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	40 cm		
	Acacia bivenosa	< 2	1-5%	1.75 m		
	Acacia elachantha	< 2	1-5%	1.25 m		
	Adriana tomentosa	+	<1 %	1 m		
	Boerhavia gardneri	+	<1 %	20 cm	B234-4	
	Chrysopogon fallax	+	<1 %	1 m		Chyfal, taken as...
	Corchorus walcottii	+	<1 %	35-40 cm	B234-1	
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	60 cm		
	Crotalaria novae-hollandiae subsp.	+	<1 %	30 cm		
	Dichrostachys spicata	<2	1-5%	1m		
	Eriachne obtusa	+	<1 %	40 cm		
	Euphorbia coghlanii	+	<1 %	25 cm		
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	25 cm	B234-3	
	Evolvulus alsinoides var. villosicalyx	+	<1 %	20 cm		Elvals, no name.
	Goodenia microptera	+	<1 %	35 cm		
	Grevillea pyramidalis subsp. pyramidalis	30-40%	33.3-50%	1-2 m		
	Hybanthus aurantiacus	+	<1 %	25 cm		
	Indigofera colutea	+	<1 %	20 cm		
	Indigofera linifolia	+	<1 %	25 cm		{recorded twice}
	Indigofera monophylla (Burrup form)	+	<1 %	45-55 cm		
	Indigofera trita	+	<1 %	35 cm		
	Mollugo molluginis	+	<1 %	25 cm		
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	40 cm		
	Polymeria calycina	+	<1 %	60 cm	B234-2	Creeping.
	Pterocaulon sphaeranthoides	+	<1 %	35 cm		
	Rhynchosia cf. minima	+	<1 %			Grey green.
	Streptoglossa decurrens	+	<1 %	30 cm		
	Tephrosia aff. supina (MET 12,357)	+	<1 %	35 cm		
	Tephrosia rosea var. clementii	35-45%	33.3-50%	45-65 cm		
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	35 cm		
	Triodia angusta (Burrup Form)	15	10-25%	65 cm		
	Triodia epactia (Burrup Form)	50-60%	50-75%	35 cm		
	Triumfetta clementii	+	<1 %	20 cm		

Burrup Peninsula Site B235**Described by** VLL **Date** 26/06/00

Location South side of Eucalyptus xerothermica valley, back opposite B234.

Air Photo **Photo** 27 **on Roll** F6? **Video** N **E Photo**

Photo Notes

AMG Zone 50 479687mE, 7724973mN 479610mE, 7724968mN

Habitat Winding gully from base of rockpile, south to north then along valley floor east to west.

Soil Red-brown alluvial soil, appears very deep, very scattered stones.

Rock Type Scattered cobbles and small rocks, grey, weathering red.

Vegetation Corymbia hamersleyana, Brachychiton acuminatus, Ehretia saligna var. saligna low open forest over Acacia coriacea subsp. coriacea, Dichrostachys spicata, Acacia bivenosa, Acacia elachantha open heath over Triodia angusta (Burrup form), Triodia epactia (Burrup form) hummock grassland.

Veg Condition Excellent.

Fire Age Not evident.

Notes Psoralea sp (VL) and Gymnanthera cunninghamii outside B235 @ K50-4-796-93, UTM 77-250-05.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	35 cm		
	Acacia bivenosa	10-15%	10-25%	1 m		
	Acacia coleii	10-15	10-25%	1-1.5 m	B235-3	
	Acacia coriacea subsp. coriacea	20-30%	25-33.3%	1 m	B235-4	Narrow phyllodes
	Acacia elachantha	10-15%	10-25%	2 m	B235-10	
	Adriana tomentosa	+	<1 %	1 m		
	Alysicarpus muelleri	+	<1 %	20 cm		Alyinig? No name.
	Brachychiton acuminatus	< 2	1-5%	2 m		
	Corchorus walcottii	10-15%	10-25%	35 cm	B235-1	
	Corymbia hamersleyana	30-40%	33.3-50%	3-5 m		
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	35 cm		
	Cymbopogon ambiguus	< 2	1-5%	1 m		Sterile.
	Cynanchum floribundum	+	<1 %			Vine.
	Dichrostachys spicata	15-20	10-25%	1.25 m		
	Dicliptera armata	15-20%	10-25%	35 cm		
	Ehretia saligna var. saligna	< 2	1-5%	2.5 m		
	Eragrostis cumingii	+	<1 %	25 cm	B235-6	
	Euphorbia coghlanii	+	<1 %	30 cm		
	Evolvulus alsinoides var. villosicalyx	+	<1 %	10 cm		elvals, no name.
	Flueggea virosa subsp. melanthesoides	10	5-10%	2 m		
	Goodenia microptera	+	<1 %	30 cm		
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	60 cm		
	Gymnanthera cunninghamii	+	<1 %	1.25 m		2 populations, +1
	Hibiscus sturtii var. campylochlamys	+	<1 %	25 cm	B235-8	
	Indigofera colutea	+	<1 %	20 cm		
	Indigofera linifolia	+	<1 %	25 cm		
	Indigofera monophylla (Burrup form)	20	10-25%	1 m		
	Jasminum didymum subsp. lineare	+	<1 %			
	Malvastrum americanum	+	<1 %	80 cm		
	Mukia maderaspatana	+	<1 %			Vine.
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	30 cm		
	Polymeria ambigua	+	<1 %			As for B234, spreading.
	Pterocaulon sphaeranthoides	+	<1 %	30 cm		
	Rhagodia preissii subsp. obovata	+	<1 %	1.25 m		
	Rhynchosia cf. minima	+	<1 %			Grey green vine.
	Rhynchosia sp. Burrup (82-1C)	+	<1 %		B235-9	Viscid, creeping.
	Scaevola spinescens (narrow form)	10-15%	10-25%			Glabrous
	Sida aff. fibulifera (B235-7)	+	<1 %	60 cm	B235-7	Creeping
	Solanum horridum	+	<1 %		B235-5	
	Streptoglossa decurrens	+	<1 %	30 cm		

Swainsona pterostylis	+	<1 %	70 cm	
Tephrosia aff. supina	+	<1 %	35 cm	
Themeda sp. Burrup (B84)	+	<1 %	40 cm	
Tinospora smilacina	+	<1 %		Vine.
Trachymene aff. oleracea (B61)	+	<1 %	40 cm	B235-2
Trichodesma zeylanicum var. zeylanicum	+	<1 %	60 cm	
Triodia angusta (Burrup Form)	30-40%	33.3-50%	1.25 m	
Triodia epactia (Burrup Form)	20-30%	25-33.3%	35-40 cm	
Triumfetta appendiculata (Burrup Form)	+	<1 %	45 cm	
Triumfetta clementii	+	<1 %	25 cm	

Burrup Peninsula Site B236

Described by VLL **Date** 26/06/00

Location Southwest side of Eucalyptus xerothermica valley track.

Air Photo **Photo** 1 **on Roll** F7? **Video** N **E Photo**

Photo Notes

AMG Zone 50 480157mE, 7725109mN 480201mE, 7724994mN

Habitat Gentle lower hill slope facing N-NE, densely grassed, with very scattered shrubs.

Soil Greyish brown sandy loam beneath mixed pale orange-pink softer sand-stony rock often mixed with quartz fragments

Rock Type Less frequently grey rhyadocite rocks, grey inside, red brown outside, 5-20 cm diameter.

Vegetation Corymbia hamersleyana scattered low trees over Acacia bivenosa, Acacia elachantha, Acacia orthocarpa scattered shrubs over Triodia wiseana (Burrup form) closed hummock grassland.

Veg Condition Excellent.

Fire Age Not evident.

Notes Triodia wiseana (Burrup form) is one which I've always found confusing although from Triodia epactia (Burrup form) description it can be hairy at nodes as this specimen is (it doesn't seem hairy enough for T. wiseana (Burrup form), and hummocks are too "loose" but more compact than T. epactia (Burrup form) - glumes not T. wiseana (Burrup form)). The area with this Triodia is distinct from T. epactia (typical one) around it, being more dense, more abundant culms and more pale green in colour.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	<2	1-5%	1.25 m		
	Acacia elachantha	<2	1-5%	1 m		
	Acacia orthocarpa	2	1-5%	1 m		
	Boerhavia gardneri	+	<1 %		B236-2	
	Bonamia pannosa	+	<1 %	10 cm		
	Corchorus walcottii	+	<1 %	30 cm	B236-4	
	Corymbia hamersleyana	<2	1-5%	2 m		
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	30 cm		
	Eriachne obtusa	+	<1 %	40 cm		
	Evolvulus alsinoides var. villosicalyx	+	<1 %	10 cm		elvals, no name.
	Gomphrena cunninghamii	+	<1 %	10 cm		
	Goodenia microptera	+	<1 %	40 cm		
	Heliotropium cunninghamii	+	<1 %	12 cm	B236-3	
	Hybanthus aurantiacus	+	<1 %	20 cm		
	Indigofera colutea	+	<1 %	5 cm		
	Indigofera linifolia	+	<1 %	20 cm		
	Indigofera monophylla (Burrup form)	+	<1 %	40 cm		
	Mollugo molluginis	+	<1 %	25 cm		
	Polycarpha holtzei	+	<1 %	1.5 cm	B236-5	
	Polygala sp. (M23-2)	+	<1 %	1 cm	B236-6	Polygala ?ins, no name
	Pterocaulon sphaeranthoides	+	<1 %	20 cm		
	Rhynchosia cf. minima	+	<1 %	20 cm		Grey green

<i>Solanum phlomoides</i>	+	<1 %	5 cm		
<i>Streptoglossa decurrens</i>	+	<1 %	3 cm		
<i>Swainsona formosa</i>	+	<1 %	30 cm		
<i>Tephrosia</i> aff. <i>supina</i>	+	<1 %	5 cm		
<i>Tephrosia rosea</i> var. <i>clementii</i>	+	<1 %	60 cm		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	60 cm		{recorded twice}
<i>Triodia wiseana</i> (Burrup Form)	>75%	>75%	30-35 cm	B236-1	wise/epa
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	35 cm		
<i>Triumfetta clementii</i>	+	<1 %	25 cm		

Burrup Peninsula Site B237

Described by VLL **Date** 26/06/00 20 x 75 m

Location Creek crossing going into Eucalyptus xerothermica valley.

Air Photo **Photo** 3 **on Roll** **Video** N **E Photo**

Photo Notes

AMG Zone 50 479386mE, 7725002mN 479334mE, 7725001mN

Habitat East-west flowing drainage line from inland ranges (eventually) to saline flats north of Withnell Bay.

Soil Alluvial grey-brown.

Rock Type Grey cobbles and boulders, and small block rocks, also quartz and conglomerate.

Vegetation Eucalyptus victrix low open forest over Acacia ampliceps, Pittosporum phylliraeoides var. phylliraeoides, Stylobasium spathulatum, Acacia coriacea subsp. coriacea, Flueggea virosa subsp. melanthesoides open heath over Triodia angusta (Burrup form), Triodia epactia (Burrup form), Cyperus vaginatus hummock grassland/sedgeland.

Veg Condition Excellent.

Fire Age Not obvious.

Notes Drainage line has water (stagnant) in pools along it. Sample kept along immediate banks and in gully where dry. Approx. 20 x 75 m.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon aff. dioicum (HD72-14)	+	<1 %	1 m	B237-2	
	Acacia ampliceps	25-33%	25-33.3%	2 m		
	Acacia coriacea subsp. coriacea	10-25	10-25%	1.5 m		
	Adriana tomentosa	+	<1 %	1 m		
	Ammannia baccifera	+	<1 %	10 cm		
	Cassia glutinosa	+	<1 %	1 m		
	Cassia oligophylla	+	<1 %	75 cm		
	Cassytha capillaris	+	<1 %		B237-1	Vine.
	Clerodendrum tomentosum	+	<1 %	1.5 m		
	Corchorus walcottii	+	<1 %	30 cm	B237-4	
	Cymbopogon ambiguus	+	<1 %	65 cm		
	Cyperus vaginatus	10-20%	10-25%	1 m		
	Enchylaena tomentosa	+	<1 %	60 cm		
	Eriachne tenuiculmis	+	<1 %	45 cm		
	Eucalyptus victrix	30-50	33.3-50%	5-6 m		
	Euphorbia coghlanii	+	<1 %	25 cm		
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	40 cm	B237-3	
	Flueggea virosa subsp. melanthesoides	5-10%	5-10%	1.75 m		
	Gymnanthera cunninghamii	+	<1 %	1 m		Three plants.
	Myoporum montanum	+	<1 %	1 m		
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	30 cm		
	Pittosporum phylliraeoides var. phylliraeoides	10-25%	10-25%	2 m		
	Pterocaulon sphaeranthoides	+	<1 %	40 cm		

Rhagodia preissii subsp. obovata	+	<1 %	1 m	
Rhynchosia cf. minima	+	<1 %		Grey green
Scaevola spinescens (narrow form)	+	<1 %	1.5 m	Glabrous green.
Sesbania cannabina	+	<1 %	1.5 m	
Stemodia grossa	+	<1 %	45 cm	
Stylobasium spathulatum	10-25	10-25%	1.5 m	
Swainsona formosa	+	<1 %	1 m	
Triodia angusta (Burrup Form)	33-50	33.3-50%	1 m	
Triodia epactia (Burrup Form)	10-20	10-25%	35 cm	

Burrup Peninsula Site B238

Described by VLL **Date** 26/06/00

Location Rockpiles SE of Jump-up, south facing.

Air Photo **Photo** 4 **on Roll** **Video** N **E Photo**

Photo Notes

AMG Zone 50 479172mE, 7725247mN 479163mE, 7725237mN 479174mE, 7725271mN

Habitat South facing rockpile; relatively sheltered from sun and prevailing winds, steep, small rocks, getting larger towards the top and some vertical outcropping toward the top.

Soil Skeletal, in soil pockets.

Rock Type Small-medium jointed rhyadocite - fine grained grey inside, weathering smooth red-brown outside.

Vegetation Eucalyptus victrix, Brachychiton acuminatus scattered low trees over Flueggea virosa subsp. melanthesoides, Acacia coriacea subsp. coriacea, Rhagodia preissii subsp. obovata, Dichrostachys spicata, Ehretia saligna var. saligna scattered shrubs to open shrubland over Acacia elachantha scattered low shrubs over Triodia epactia (Burrup form) scattered hummock grasses to very open hummock grassland with Dicliptera armata scattered herbs.

Veg Condition Excellent.

Fire Age Not evident.

Notes Sample includes vegetation on base of rockpile (B) as well as on rockpile proper (R).

Below is the base of the rockpile species :

Cleome viscosa	25 cm	+	<1 %	B	
Indigofera monophylla (Burrup form)	35 cm	+	<1 %		B
Abutilon lepidioicum	30 cm	+	<1 %	B	
Triumfetta clementii	25 cm	+	<1 %		B
Euphorbia tannensis subsp. eremophila (Burrup form)	35 cm	+	<1 %		B238-4 B
Commicarpus australis		+	<1 %		Vine. B.
Indigofera trita				B	

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	30 cm		R.
	Acacia bivenosa	+	<1 %	1 m		R
	Acacia coriacea subsp. coriacea	<5	1-5%	1.5 m		B+R
	Acacia elachantha	<2	1-5%	1 m		B+R
	Alectryon oleifolius	+	<1 %	1 m		R
	Brachychiton acuminatus	<2%	1-5%	2-6 m		R
	Capparis spinosa var. nummularia	+	<1 %	1 m		R
	Cassia glutinosa	+	<1 %	1 m		R
	Clerodendrum tomentosum	<2%	1-5%	1.75 m		R
	Cymbopogon ambiguus	+	<1 %	1 m	B238-2	R
	Dichrostachys spicata	1-5%	1-5%	1.5 m		R
	Dicliptera armata	+	<1 %	30 cm		B+R
	Ehretia saligna var. saligna	<5%	1-5%	1-2 m		R
	Enchylaena tomentosa	+	<1 %	65 cm	B238-5B,5	R. Wispy and dense.
	Eucalyptus victrix	<2-5	1-5%	4 m		B+R

<i>Euphorbia</i> sp. (site 1163)	+	<1 %	15 cm	B238-1	B + R.
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10 cm		Elvals?.
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	<5	1-5%	1.75 m		B+R
<i>Ipomoea costata</i>	+	<1 %	1 m		R
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1 m		R, B, Vine, {recorded
<i>Mukia maderaspatana</i>	+	<1 %			Vine. R.
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		R
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	30 cm		R
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	<1%	<1 %	1-1.5 m		R
<i>Plumbago zeylanica</i>	+	<1 %	85 cm		R
<i>Pterocaulon sphaeranthoides</i>	+	<1 %	75 cm		R
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	<2	1-5%	1.25 m		B+R
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %			B+R. Creeper,
<i>Solanum horridum</i>	+	<1 %	35 cm	B238-3	aff. R.
<i>Stylobasium spathulatum</i>	+	<1 %	1 m		R
<i>Terminalia supranitfolia</i>	2%	1-5%	1 m		R
<i>Tinospora smilacina</i>	+	<1 %			Vine. R.
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	1 m		R
<i>Trichosanthes cucumerina</i>	+	<1 %			Vine. R.
<i>Triodia angusta</i> (Burrup Form)	+	<1 %	85 cm		One hummock. R.
<i>Triodia epactia</i> (Burrup Form)	2-5	1-5%	35 cm		B+R
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %			R

Burrup Peninsula Site B239a

Described by VLL **Date** 26/06/01 50x50

Location East of jump-up.

Air Photo **Photo** #5,6 **on Roll** **Video** N E **Photo**

Photo Notes

AMG Zone 50 479239mE, 7725079mN 479239mE, 7724964mN

Habitat Coastal plateau beneath rocky ridges and mangrove lined saline flat and tidal creeks - species recorded from *Triodia epactia* community associated with lower slopes.

Soil Pale medium red brown fine rained loam with scattered stony mantle.

Rock Type small rocks to 15cm diameter, fine-medium grained grey weathering smooth red.

Vegetation *Acacia bivenosa* open shrubland over *Triodia epactia* (Burrup form) hummock grassland and mixed herbland.

Veg Condition Excellent

Fire Age Not obvious

Notes Coastal plateau fringed on two sides by saline flats and tidal creek. NB: this sample is probably not 100% "clean" in that the quadrat stretched over *T. angusta* (Burrup form) (bordering saline flats as it does) and extended into *T. epactia* (Burrup form) associated more with lower slopes. Sampled vegetation in *T. angusta* (Burrup form), therefore is marked TA in case these need to be treated separately.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	5-10	5-10%	1-1.5 m		TA (+TE)
	<i>Acacia elachantha</i>	< 2	1-5%	1 m		
	<i>Cleome viscosa</i>	+	<1 %	25 cm		
	<i>Corchorus walcottii</i>	+	<1 %	35 cm	B239-2	TA + TE
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	+	<1 %	35 cm		TA (+TE).
	<i>Crotalaria novae-hollandiae</i> subsp.	+	<1 %	20 cm		TA + TE
	<i>Eriachne obtusa</i>	+	<1 %	40 cm		
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10 cm		
	<i>Goodenia microptera</i>	+	<1 %	35 cm		TA +TA + TE TE
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	+	<1 %	20 cm	B239-3	
	<i>Hybanthus aurantiacus</i>	+	<1 %	15 cm		

Indigofera linifolia	+	<1 %	25 cm	TA. {recorded twice}
Pterocaulon sphaeranthoides	+	<1 %	35 cm	TA + TE
Solanum phlomoides	+	<1 %	40 cm	
Streptoglossa decurrens	+	<1 %	35 cm	TA + TE
Stylobasium spathulatum	+	<1 %	1 m	
Tephrosia aff. densa (B17)	+	<1 %	35 cm	B239-4
Trichodesma zeylanicum var. zeylanicum	+	<1 %	45 cm	
Triodia epactia (Burrup Form)	30-50	33.3-50%	30-35 cm	
Triumfetta appendiculata (Burrup Form)	+	<1 %	45 cm	{recorded twice}
Triumfetta clementii	+	<1 %	25 cm	

Burrup Peninsula Site B239b

Described by VLL **Date** 26/06/01

Location East of jump-up.

Air Photo **Photo** #5,6 **on Roll** **Video** N **E Photo**

Photo Notes

AMG Zone 50 479239mE, 7725079mN 479239mE, 7724964mN

Habitat Coastal plateau beneath rocky ridges and mangrove lined saline flat and tidal creeks - species recorded from the Triodia angusta community bordering the saline flats.

Soil Pale medium red brown fine rained loam with scattered stony mantle.

Rock Type small rocks to 15cm diameter, fine-medium grained grey weathering smooth red.

Vegetation Acacia bivenosa shrubland over Triodia angusta (Burrup form) hummock grassland and mixed herbland.

Veg Condition Excellent

Fire Age Not obvious

Notes Coastal plateau fringed on two sides by saline flats and tidal creek. NB: this sample is probably not 100% "clean" in that the quadrat stretched over T. angusta (Burrup form) (bordering saline flats as it does) and extended into T. epactia (Burrup form) associated more with lower slopes. Sampled vegetation in T. angusta (Burrup form), therefore is marked TA in case these need to be treated separately.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	20-25	10-25%	1-1.5 m		TA (+TE)
	Adriana tomentosa	+	<1 %	1 m		TA.
	Bulbostylis barbata	+	<1 %	15 cm		TA.
	Corchorus walcottii	+	<1 %	35 cm	B239-2	TA + TE
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	35 cm		TA (+TE).
	Crotalaria novae-hollandiae subsp.	+	<1 %	20 cm		TA + TE
	Cullen badocanum	+	<1 %	25 + cm	B239-7	TA.
	Euphorbia aff. australis type 1 (erect stems)	+	<1 %	10 cm		TA.
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	25 cm	B239-5	TA
	Goodenia microptera	+	<1 %	35 cm		TA +TA + TE TE
	Indigofera colutea	+	<1 %	20 cm		TA.
	Indigofera linifolia	+	<1 %	25 cm		TA. {recorded twice}
	Indigofera trita	+	<1 %	25 cm	TA.	
	Portulaca pilosa	+	<1 %	15 cm	B239-6	TA.
	Pterocaulon sphaeranthoides	+	<1 %	35 cm		TA + TE
	Ptilotus fusiformis var. fusiformis	+	<1 %	20 cm	B239-1	TA.
	Rhynchosia cf. minima	+	<1 %			Creeper, grey green.
	Sida fibulifera	+	<1 %	15 cm		TA.
	Streptoglossa decurrens	+	<1 %	35 cm		TA + TE
	Swainsona formosa	+	<1 %	1 m		TA.
	Tephrosia aff. densa (B17)	+	<1 %	35 cm	B239-4	

<i>Trianthesma turgidifolia</i>	+	<1 %	35-45 cm	TA.
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	45 cm	
<i>Triodia angusta</i> (Burrup Form)	30-50	33.3-50%	60-75 cm	TA

Dolphin Island quadrats

Dolphin Island Site D086

Described by MET **Date** 29/05/00

Location West side of Dolphin Island, near camp area.

Air Photo **Photo** 20 **on Roll** MB **Video** Y **E Photo** 176, 177

Photo Notes

AMG Zone 50 481665mE, 7732856mN 481719mE, 7732921mN 481706mE, 7732929mN 481656mE, 7732872mN

Habitat Gentle slope between two small ridges of rocks, from low crest running to southerly direction.

Soil Pebbly gravelly brown loam amongst cobbles and small boulders. Surface mostly large pebbles to cobbles, some small boulders.

Rock Type Medium grained grey volcanic.

Vegetation *Grevillea pyramidalis* subsp. *pyramidalis* scattered shrubs over *Indigofera monophylla* (Burrup form), *Chorchorus walcottii* low shrubland over *Triodia epactia* (Burrup Form) hummock grassland to closed hummock grassland.

Veg Condition Excellent.

Fire Age >10 years.

Notes All the *Abutilon lepidum* seen was juvenile, the habitat is too harsh (exposed) and the species is unlikely to establish. There was only one plant of the *Scaevola spinescens* (narrow form).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon lepidum</i>	+	<1 %	15 cm	D86-10	Juvenile
	<i>Acacia pyrifolia</i> (slender, white)	+	<1 %	0.4-1 m	D86-13	cf. slender stems
	<i>Boerhavia gardneri</i>	+	<1 %	20-35 cm	D86-4	
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	5 cm		
	<i>Bulbostylis barbata</i>	+	<1 %	5 cm		
	<i>Corchorus walcottii</i>	1-2	1-5%	15-35 cm	D86-1	
	<i>Eriachne mucronata</i> (typical form)	+	<1 %	40 cm	D86-15	
	<i>Euphorbia coghlanii</i>	+	<1 %	2-70 cm	D86-9	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	12 cm	D86-5	
	<i>Gomphrena cunninghamii</i>	+	<1 %	9 cm		
	<i>Goodenia microptera</i>	+	<1 %	5 cm	D86-6	
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	0.5-1.7 m		
	<i>Hybanthus aurantiacus</i>	+	<1 %	7 cm		Grazed
	<i>Indigofera monophylla</i> (Burrup form)	10-15	10-25%			
	<i>Mollugo molluginis</i>	<=1	<1 %	10-20 cm	D86-2	
	<i>Paspalidium clementii</i>	+	<1 %	4-10 cm	D86-14	
	<i>Pterocaulon sphacelatum</i>	+	<1 %	40-70 cm	D86-7	
	<i>Ptilotus fusiformis</i> var. <i>fusiformis</i>	+	<1 %	40 cm	D86-11	
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	70 cm	D86-16	No specimen number.
	<i>Solanum horridum</i>	+	<1 %	15-20 cm	D86-8	
	<i>Streptoglossa decurrens</i>	+	<1 %	10-55 cm	D86-3	
	<i>Tephrosia supina</i>	+	<1 %	12 cm	D86-12	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	10-40 cm		
	<i>Triodia epactia</i> (Burrup Form)	+/-70	50-75%	20-50 cm	D86-0	+ smut
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	15-45 cm		
	<i>Triumfetta clementii</i>	+	<1 %	12 cm		

Dolphin Island Site D087

Described by MET **Date** 29/05/00

Location West side of Dolphin Island, near camp area, adjacent to D086.

Air Photo **Photo** 19 **on Roll** M2 **Video** N **E Photo** 177, 178

Photo Notes

AMG Zone 50 481723mE, 7732901mN 481702mE, 7732862mN

Habitat Rock pile

Soil Orange brown loamy fine sand between cobbles and boulders.

Rock Type Medium grained, dark grey, volcanic.

Vegetation *Brachychiton acuminatus*, *Ehretia saligna* var. *saligna* scattered low trees over *Rhagodia eremaea*, *Terminalia supranitifolia*, *Acacia coriacea* subsp. *coriacea* scattered tall shrubs over *Scaevola spinescens* (narrow form) scattered shrubs.

Veg Condition Excellent

Fire Age >10 years

Notes Both sides and over rock pile for 50 m length (peg 1-2) recorded. Very little *Rhynchosia* sp. Burrup (82-1C) (3+ plants, all small at lower edge). Several juvenile *Brachychiton acuminatus*. Rock wallaby observed at 4 m distance; was chewing white ant "run way" material off a dead branch.

Rock Pile Notes Very little soil cover except along lower edge; <1%. Rocks angular, mostly small to medium sized boulders some cobbles (more in patches).

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<1	<1 %	2 m		
	<i>Alectryon oleifolius</i>	+	<1 %	1.2-1.7 m		
	<i>Brachychiton acuminatus</i>	>=1	1-5%	(0.1) 3-4+		
	<i>Cleome viscosa</i>	+	<1 %	45 cm		Only at edge. Within
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	4 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	0.7 m		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1-3.5 m		
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1 m		Only at edge
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	70 cm		Only at edge. Within
	<i>Mukia maderaspatana</i>	+	<1 %	15-30 cm	D87-1	Only at edge. Within
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	7 cm		Grazed
	<i>Pterocaulon sphacelatum</i>	+	<1 %	25-70 cm		=D86
	<i>Rhagodia eremaea</i>	<1	<1 %	2-2.6 m		
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	20 cm	D87-3	Green, sticky. Amongst
	<i>Scaevola spinescens</i> (narrow form)	<1	<1 %	0.5-1.6 m		=D86
	<i>Solanum horridum</i>	+	<1 %	2 cm	D87-2	Yellowish, juvenile
	<i>Terminalia supranitifolia</i>	+/-1	<1 %	(0.3)		
	<i>Tinospora smilacina</i>	+	<1 %	35 cm		
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	65 cm		Amongst cobbles near
	<i>Triodia epactia</i> (Burrup Form)	+	<1 %	50 cm		=D86
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	20 cm		Only at edge
	<i>Triumfetta clementii</i>	+	<1 %	15 cm		Only at edge

Dolphin Island Site D088

Described by MET **Date** 29/05/00

Location West side of Dolphin Island.

Air Photo **Photo** 18 **on Roll** MB **Video** Y **E Photo** 180, 181

Photo Notes

AMG Zone 50 481941mE, 7732874mN 481957mE, 7732849mN 482018mE, 7732886mN 482008mE, 7732905mN

Habitat Narrow, fairly flat bottomed valley between a ridge with rock piles (to the west) and a large cliff and boulder scree slope. Low in landscape - upper end of tidal zone nearby.

Soil Brown loamy fine sand, cobbly pebbly in places.

Rock Type N/R

Vegetation *Eucalyptus victrix* low woodland to low open woodland (patchy) over *Triodia angusta* (Burrup form), (*Triodia epactia* (Burrup form)) hummock grassland.

Veg Condition Excellent

Fire Age >10 years.

Notes Habitat continued - has narrow (1-2 m) flow channel in places and wash area with *Ammania baccifera* in others. In one patch (dryer and open) *Triodia epactia* (Burrup form) replaces *T. angusta* (Burrup form).
2-300 m upstream this unit narrows into the flowline and its edges (where valley does not have a flat floor) and next to it there is vegetation +/- = D86 (sometimes without *Indigofera monophylla* (Burrup form)).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	12 cm		1 plant
	<i>Acacia bivenosa</i>	+	<1 %	1.25-2 m		1-2 plants
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.5-2.5 m		2-3 plants
	<i>Acacia pyrifolia</i> (slender, white)	+	<1 %	1 m		cf. =D86
	<i>Ammania baccifera</i>	+	<1 %	5-15 cm	D88-3	
	<i>Boerhavia coccinea</i> (form B)	+	<1 %	10 cm	D88-6	
	<i>Brachychiton acuminatus</i>	+	<1 %	7 cm		Juvenile, under E. vic at
	<i>Bulbostylis barbata</i>	+	<1 %	5 cm		
	<i>Corchorus walcottii</i>	+	<1 %	15 cm		=D86
	<i>Cyperus bifax</i>	+	<1 %	0.6-0.9 m	D88-1	
	<i>Cyperus vaginatus</i>	+	<1 %	80 cm		1 clump
	<i>Dicliptera armata</i>	+	<1 %	40-60 cm		One patch in damper
	<i>Eriachne tenuiculmis</i>	+	<1 %	35-40 cm	D88-9	
	<i>Eucalyptus victrix</i>	>10	10-25%	(2) 5-8+		
	<i>Euphorbia coghlanii</i>	+	<1 %			
	<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	1 m	D88-5	One plant.
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	3.5 m		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	40-60 cm		One patch
	<i>Indigofera trita</i>	+	<1 %	5 cm	D88-2	
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	2 m		
	<i>Mollugo molluginis</i>	+	<1 %	25 cm		=D86
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	609 cm	D88-4	
	<i>Pluchea rubelliflora</i>	+	<1 %	8 cm		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	10-70 cm		Common
	<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	50 cm	D88-7	Green, sticky
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.3 m		=D86
	<i>Sesbania cannabina</i>	+	<1 %	50 cm		Common
	<i>Solanum horridum</i>	+	<1 %	20 cm	D88-8	Yellowish
	<i>Stemodia grossa</i>	+	<1 %	10-15 cm		
	<i>Streptoglossa decurrens</i>	+	<1 %	20-70 cm		=D86
	<i>Swainsona formosa</i>	+	<1 %	30 cm		
	<i>Tinospora smilacina</i>	+	<1 %	10 cm		Juvenile
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	0.4-1.3 m		
	<i>Triodia angusta</i> (Burrup Form)	>65	50-75%	50-80 cm		
	<i>Triodia epactia</i> (Burrup Form)	+/-5	1-5%	30-40 cm		
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	65 cm		
	<i>Triumfetta clementii</i>	+	<1 %	10 cm		

Dolphin Island Site D089

Described by MET **Date** 29/05/00

Location West side of Dolphin Island.

Air Photo **Photo** 17 **on Roll** **MB** **Video** **Y** **E Photo** 182-187

Photo Notes

AMG Zone 50 482038mE, 7732866mN

Habitat Large boulder rock pile, trends N-S.

Soil Light brown loamy fine to medium sand.

Rock Type Dark grey, fine to medium grained; ?volcanic.

Vegetation Ehretia saligna var. saligna, Brachychiton acuminatus scattered low trees over Ficus platypoda var. D scattered, Flueggea virosa subsp. melanthesoides scattered tall shrubs over Rhagodia eremaea, Scaevola spinescens (narrow form) scattered shrubs.

Veg Condition Excellent

Fire Age >10 years

Notes Area above pegs 2+3 of D88 recorded. Over rock pile, including lower western and eastern edges. 'Swale' slope east of D89+/- D86 but with no Grevillea and some Cajanus.

Rock Pile Notes Steep +/- west facing slope, quite high (>50 m). Mostly medium to large boulders, some areas with cobble infill.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %	1.5 m		
	Achyranthes aspera	+	<1 %		D89-8	
	Aerva javanica	+	<1 %	10 cm	D89-6	?
	Alectryon oleifolius	+	<1 %	80 cm		
	Amaranthus aff. pallidiflorus (D89)	+	<1 %	15-40 cm	D89-1	
	Boerhavia gardneri	+	<1 %	20 cm	D89-5	
	Brachychiton acuminatus	+	<1 %	3 m		
	Clerodendrum tomentosum	+	<1 %	80 cm		Juvenile
	Cymbopogon ambiguus	+	<1 %	15-55 cm		Ordinary, sterile
	Ehretia saligna var. saligna	+	<1 %	3.8 m		
	Euphorbia sp. (site 1163)	+	<1 %	15+ cm	D89-7	Only at lower edge
	Ficus platypoda var. D	+	<1 %	1-2 (3) m	D89-2	Two photos - 186, 187.
	Flueggea virosa subsp. melanthesoides	+	<1 %	2 m		
	Ipomoea costata	+	<1 %	70 cm		
	Mukia maderaspatana	+	<1 %	10 cm	D89-4	
	Paspalidium tabulatum (Burrup Form)	+	<1 %	30 cm		
	Pterocaulon sphacelatum	+	<1 %	50-90 cm		Common
	Rhagodia eremaea	+	<1 %	1.4 m		
	Rhynchosia sp. Burrup (82-1C)	+	<1 %	60 cm		Only at lower edge
	Scaevola spinescens (narrow form)	+	<1 %	1.3 m		=D86
	Solanum horridum	+	<1 %	10-20 cm	D89-3	Greyish
	Streptoglossa decurrens	+	<1 %	95 cm		=D86, common
	Terminalia supranitifolia	+	<1 %	30-80 cm		
	Tinospora smilacina	+	<1 %	1.8 m		
	Trichosanthes cucumerina	+	<1 %	80 cm		
	Triodia angusta (Burrup Form)	+	<1 %	50-80 cm		
	Triumfetta appendiculata (Burrup Form)	+	<1 %	20-30 cm		Only at lower edge

Dolphin Island Site D094

Described by VLL **Date** 29/05/00

Location Midway along west coast of Dolphin Island, just E of small mangrove bay.

Air Photo **Photo** 21, **on Roll** 22: **Video** N **E Photo**

Photo Notes

AMG Zone 50 482495mE, 7734876mN 482503mE, 7734822mN

Habitat Coastal rock outcrops spilling down onto beach, W facing, relatively sheltered from easterlies. Large block-rock outcrops with narrow corridors of Triodia epactia (Burrup form) beneath.

Soil Red-brown skeletal, but some soil pockets.

Rock Type Red-brown fine grain block type medium-jointed rhyadocite - some platey rock.

Vegetation Brachychiton acuminatus, (Terminalia canescens) low woodland over Flueggea virosa subsp. melanthesoides open shrubland over Corchorus walcottii low open shrubland over Triodia epactia (Burrup form) open hummock grassland.

Veg Condition Excellent - no weeds.

Fire Age N/A

Notes Transect runs 50 m along base of rockpiles. Rockpiles are low, coastal, spilling down on to the beach. Narrow corridors of *Triodia epactia* (Burrup form) grow beneath rocks. Relatively dense *Brachychiton acuminatus* 30-40%.
Rockwallaby!

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	35 cm	D94-5	?sprawling
	<i>Acacia bivenosa</i>	+	<1 %	1.25 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1 m	D94-9	
	<i>Achyranthes aspera</i>	+	<1 %	1.10 m		
	<i>Boerhavia gardneri</i>	+	<1 %	50 cm	D94-11	
	<i>Brachychiton acuminatus</i>	20-30%	25-33.3%	1.5-2 m		
	<i>Bulbostylis barbata</i>	+	<1 %	10 cm	D94-16	
	<i>Cassia venusta</i>	+	<1 %	50 cm		
	<i>Cleome viscosa</i>	+	<1 %	40 cm		
	<i>Corchorus walcottii</i>	5	1-5%	35 cm	D94-2,10	{Recorded twice}
	<i>Cymbopogon ambiguus</i>	+	<1 %	65 cm	D94-3	
	<i>Digitaria ctenantha</i>	+	<1 %	40 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	1.5 m		
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10 cm		
	<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	1.25 m	D94-12	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2	1-5%	1.25		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	45 cm		
	<i>Ipomoea costata</i>	+	<1 %	1 m		
	<i>Mukia maderaspatana</i>	+	<1 %		D94-15	
	<i>Nicotiana benthamiana</i>	+	<1 %	25 cm	D94-8	
	<i>Paspalidium clementii</i>	+	<1 %	10 cm		ell grazed
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	30 cm		
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	2	1-5%	2 m		
	<i>Plumbago zeylanica</i>	+	<1 %	1 m		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	30 cm	D94-13	
	<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	1 m		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	80 cm	D94-14	sca aff spi. Glabrous,
	<i>Solanum horridum</i>	+	<1 %	5 cm	D94-4	<i>Solanum</i> , juvenile
	<i>Streptoglossa decurrens</i>	+	<1 %	35 cm		
	<i>Terminalia canescens</i>	5	1-5%	1.75 m		
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	1 m		
	<i>Triodia epactia</i> (Burrup Form)	10-15%	10-25%	40 cm	D94-1	
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	30 cm	D94-7	
	<i>Triumfetta clementii</i>	+	<1 %	35 cm	D94-6	

Dolphin Island Site D095

Described by VLL **Date** 29/05/00 **100x2-3m**

Location Midway along west coast of Dolphin Island, E of small mangrove bay.

Air Photo **Photo** 25 **on Roll** from **Video** N **E Photo**

Photo Notes

AMG Zone 50 482539mE, 7734661mN 482601mE, 7734725mN

Habitat Shallow drainage gully running E-W on to beach. Sample taken along coastal plateau (D101).
Very gentle slope, draining from high slopes to E and S.

Soil

Rock Type Grey, red-grey cobbles, pebbles and larger rocks to 25 cm diameter.

Vegetation *Eucalyptus victrix*, *Terminalia canescens* low woodland over *Dichrostachys spicata*, *Scaevola spinescens* (narrow form) scattered shrubs over *Cyperus vaginatus*, *Cyperus bifax*, *Triodia epactia* (Burrup form) sedgeland/hummock grassland.

Veg Condition Excellent - No weeds.

Fire Age N/A

Notes Very dense Sedge and *Triodia epactia* (Burrup form) cover beneath *Eucalyptus victrix*/*Terminalia canescens*.
Transect kept within flowline 2-3 m x 100 m. Water in shallow pools x3 along transect. Drain flows E-W from higher rocky slopes (not in this sample) through coastal plateau (this sample).

Rock Pile Notes See D101.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1 m	D95-18	
	<i>Ammannia auriculata</i>	+	<1 %	40 cm	D95-15	Diseased?
	<i>Ammannia baccifera</i>	+	<1 %	3 cm		
	<i>Brachychiton acuminatus</i>	+	<1 %	1.75 m		
	<i>Bulbostylis barbata</i>	+	<1 %	10 cm		As for D94-4
	<i>Corchorus walcottii</i>	+	<1 %	30 cm	D95-17	
	<i>Cyperus bifax</i>	15-20%	10-25%	1 m	D95-2	
	<i>Cyperus squarrosus</i>	+	<1 %	3 cm		
	<i>Cyperus vaginatus</i>	15-20	10-25%	1 m	D95-3,11	Cyp aff. Vag. {Recorded
	<i>Dichrostachys spicata</i>	+	<1 %	35 cm		
	<i>Eragrostis</i> sp.	+	<1 %	25 cm	D95-12	Under dense sedge
	<i>Eriachne tenuiculmis</i>	+	<1 %	30 cm	D95-13,19	? DIGCTN- no name,
	<i>Eucalyptus victrix</i>	20-30	10-25%	4-5 m		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.75 m		{Recorded twice}
	<i>Ipomoea optica</i>	+	<1 %	60 cm	D95-9	Vine
	<i>Leptochloa fusca</i> subsp. <i>fusca</i>	+	<1 %	1 m	D95-14	panicum? Decom
	<i>Pluchea rubelliflora</i>	+	<1 %	45 cm	D95-5	
	<i>Plumbago zeylanica</i>	+	<1 %	45 cm		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	80cm-1 m	D95-18	Sca aff spi, glabrous,
	<i>Sesbania cannabina</i>	+	<1 %	2 m	D95-4	
	<i>Solanum horridum</i>	+	<1 %	5 CM		
	<i>Stemodia grossa</i>	+	<1 %	40 cm	D95-16	
	<i>Streptoglossa decurrens</i>	+	<1 %	35 cm		
	<i>Terminalia canescens</i>	10-15%	10-25%	4 m		
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	25 cm	D95-6	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	60 cm		
	<i>Trichosanthes cucumerina</i>	+	<1 %			Scrambling on
	<i>Triodia angusta</i> (Burrup Form)	+	<1 %	50 cm		
	<i>Triodia epactia</i> (Burrup Form)	10-15%	10-25%	30 cm	D95-1	
	<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	20 cm	D95-10	
	<i>Vigna lanceolata</i> var. <i>lanceolata</i>	+	<1 %	25-40 cm	D95-7	

Dolphin Island Site D097

Described by ASW **Date** 29/05/00

Location Sand spit surrounded by mangroves towards SE corner of Dolphin Island.

Air Photo **Photo** 5A **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 485221mE, 7731365mN 485226mE, 7731464mN

Habitat Flat to gently sloping shell sand.

Soil Light fawn coloured sand, coarse, lots of shell grit.

Rock Type Coral.

Vegetation *Acacia bivenosa*, *Acacia coriacea* subsp. *coriacea*, *Rhagodia preissi* subsp. *obovata* shrubland to open heath over *Trianthema turgidifolia*, *Enchylaeana tomentosa*, *Adriana tomentosa* low open shrubland over *Euphorbia coghlanii*, *Euphorbia tannensis* subsp. *eremophila* (Burrup form), *Cleome viscosa* open herbland.

Veg Condition Very good.

Fire Age

Notes Sand firmer than 100 m S where there is *Alectryon oleifolius*

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	15	10-25%	<2 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	15	10-25%	+/-2 m		
	<i>Adriana tomentosa</i>	2	1-5%	40 cm		
	<i>Amaranthus pallidiflorus</i>	+	<1 %	10 cm		=B77
	<i>Cleome viscosa</i>	5-10	5-10%	90 cm		
	<i>Enchylaena tomentosa</i>	+	<1 %			
	<i>Euphorbia coghlanii</i>	2	1-5%	50 cm		
	<i>Euphorbia</i> sp.	20	10-25%	10 cm		=B77
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	5	5-10%	55 cm	D97-3	=B77
	<i>Rhagodia preissii</i> subsp. <i>obovata</i>	<10	5-10%	1.3 m		
	<i>Swainsona formosa</i>	2-5	1-5%	40 cm		
	<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	+/-1	<1 %	<5		=D12-1
	<i>Threlkeldia diffusa</i>	5-10	5-10%	60 cm	D97-2	and S end
	<i>Trianthema turgidifolia</i>	2	1-5%	30 cm	D97-1	Only on lowered edge

Dolphin Island Site D098

Described by ASW **Date** 29/05/00

Location Along sandspit E of D097.

Air Photo **Photo** **on Roll** AS **Video** N **E Photo**

Photo Notes 7A, 6A, 8A,9A,10A, 15A

AMG Zone 50 485381mE, 7731268mN 485330mE, 7731221mN 485377mE, 7731222mN 485333mE, 7731270mN

Habitat Hilltop and gentle upper slopes around it. Boulders and dense *Triodia wiseana* (Burrup form).

Soil S side coarse brown sand with shell grit, N side dark brown sandy loam where visible.

Rock Type Grades from S-N: Little rock, some outcroppings of coral - cobbles/stones on N side. Cover approx. 90% of surface.

Vegetation *Acacia bivenosa*, *Pittosporum phylliraeoides* var. *phylliraeoides* scattered shrubs over *Scaevola spinescens* (narrow form), *Indigofera monophylla* (Burrup form) low open shrubland over *Triodia wiseana* (Burrup form) closed hummock grassland.

Veg Condition Very good to excellent.

Fire Age

Notes Most shrubs >1 m are dead skeletons, probably killed by fire - possibly *Acacia coriacea* subsp. *coriacea* and *A. bivenosa*.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	>1	1-5%	1.5		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	1	1-5%	1 m		
	<i>Adriana tomentosa</i>	+	<1 %	80 cm		
	<i>Alectryon oleifolius</i>	1-2	1-5%	50 cm		
	<i>Brachychiton acuminatus</i>	+	<1 %	1 m		
	<i>Cenchrus ciliaris</i>	+	<1 %	2 cm	D98-8	grass, heavily grazed
	<i>Cleome viscosa</i>	+	<1 %	50 cm		
	<i>Corchorus walcottii</i>	1	1-5%	80 cm	D98-3	local
	<i>Crotalaria medicaginea</i> (Burrup form; B65-11)	1	1-5%	40 cm		
	<i>Cuscuta victoriana</i>	+	<1 %			Outside, near plot
	<i>Enchylaena tomentosa</i>	+	<1 %	70 cm		
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	30 cm		? =D10
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	10 cm		
	<i>Indigofera linifolia</i>	+	<1 %	10 cm		=B6. Orange

<i>Indigofera linnaei</i>	+	<1 %	10 cm	D98-7	
<i>Indigofera monophylla</i> (Burrup form)	>2	1-5%	80 cm		
<i>Indigofera trita</i>	1	1-5%	40 cm	D98-4	
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	1	1-5%	15 cm		Herb
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %	1.5	D98-5	
<i>Pterocaulon sphacelatum</i>	>1	<1 %	50 cm		
<i>Scaevola spinescens</i> (narrow form)	5	5-10%	50 cm	D98-2	
<i>Solanum horridum</i>	1	1-5%	20 cm	D98-6	
<i>Stemodia grossa</i>	+	<1 %	10 cm		
<i>Streptoglossa decurrens</i>	+	<1 %	80 cm		
<i>Swainsona formosa</i>	+	<1 %	<10		
<i>Tinospora smilacina</i>	1	1-5%	1 m		
<i>Trianthesma turgidifolia</i>	1	1-5%	30 cm		=D10
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	1	1-5%	1.2 m		
<i>Triodia wiseana</i> (Burrup Form)	75-80	>75%	40 cm	D98-1	

Dolphin Island Site D099

Described by ASW **Date** 29/05/00

Location Further E of D098 on crushed coral.

Air Photo **Photo** 11A **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 485464mE, 7731225mN 485485mE, 7731203mN 485489mE, 7731212mN 485474mE, 7731214mN

Habitat Flat +/-level shell sand with a few scattered rocks, gravel and small boulders.

Soil Dark brown sand, organic matter, with lots of shell/coral pieces. Surface covered with shell/coral litter. 10% coral/shell 90%.

Rock Type Outcropping coral. Cobbles/stones - see notes.

Vegetation *Acacia coriacea* subsp. *coriacea*, *Terminalia supranitifolia*, (*Brachychiton acuminatus*, *Ehretia saligna* var. *saligna*) low woodland over *Pittosporum phylliraeoides* var. *phyllirae* high open shrubland over *Rhagodia preissii* subsp. *obovata*, *Scaevola spinescens* (narrow form), *Adriana tomentosa* open shrubland with *Tinospora smilacina* very open lianes.

Veg Condition Very good (a few weeds).

Fire Age 1995?

Notes Cobbles/stones of (1) light quartz rock with medium grain light blue/grey interior, (2) reddish/rusty rock with medium grain dark grey interior, (3) similar to (1) but with green feldspar(?).

See also photos 12A, 13A 14A for ridge rockpile *Triodia* vegetation.

Two almost verging pockets of rockpile type vegetation:

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	20	10-25%	3 m		
	<i>Adriana tomentosa</i>	2-5	1-5%	1.5		
	<i>Alectryon oleifolius</i>	1	1-5%	80 cm		
	<i>Brachychiton acuminatus</i>	2	1-5%	2 m		
	<i>Cleome viscosa</i>	+	<1 %	20 cm		
	<i>Clerodendrum tomentosum</i>	1	1-5%	1.5		mostly dead
	<i>Ehretia saligna</i> var. <i>saligna</i>	2-5	1-5%	2.5		
	<i>Enchylaena tomentosa</i>	+	<1 %	10 cm		
	<i>Heliotropium tenuifolium</i>	>1	1-5%	5 cm	D99-2	
	<i>Mukia maderaspatana</i>	+	<1 %	5 cm		
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	20 cm	D99-3	
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	1	1-5%	10 cm		phyll (herb)
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	2-5	1-5%	2.5 m		
	<i>Pterocaulon sphacelatum</i>	1	1-5%	30 cm		
	<i>Rhagodia eremaea</i>	2	1-5%	1.2		smelly

Rhagodia preissii subsp. obovata	2-5	1-5%	1.6 m		notsmelly
Scaevola spinescens (narrow form)	2	1-5%	1.8 m		
Streptoglossa decurrens	2	1-5%	50 cm		
Synaptantha tillaeacea var. tillaeacea	1	1-5%	<5	D99-1	?caryophyll (herb) in
Terminalia supranitifolia	10	5-10%	2 m		
Tinospora smilacina	5	5-10%	3 m		
Trichodesma zeylanicum var. zeylanicum	1	1-5%	1.3		

Dolphin Island Site D100

Described by ASW **Date** 30/05/00 100 m x?

Location Approximately 100 m N of D114 rockpile and upper end of D115.

Air Photo **Photo** Y **on Roll** AS **Video** N **E Photo**

Photo Notes 21A, from D114, note *Gymnanthera* in foreground; 22A, over Peg 1.

AMG Zone 50 482002mE, 7733466mN 482076mE, 7733507mN

Habitat Steep, largely bare, bouldery slopes of rockpile.

Soil Skeletal dark brown crumbly coarse loam with organic matter.

Rock Type Medium grained dark blue. Boulders angular, subrounded.

Vegetation *Pittosporum phylliraeoides* var. *phylliraeoides*, *Brachychiton acuminatus*, *Terminalia supranitifolia* scattered tall shrubs to scattered low trees over *Scaevola spinescens* (narrow form), *Rhagodia eremaea* scattered shrubs.

Veg Condition Excellent - very good.

Fire Age

Notes D100 was done after D114 and D115. Only species on rockpile are included.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	<1 %			D100-1	
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<1 %		2 m		
	<i>Alectryon oleifolius</i>	<1 %		1.1 m		
	<i>Boerhavia coccinea</i> (form A)	<1 %		15 cm		? Rough
	<i>Brachychiton acuminatus</i>	+	<1 %	3.5 m		
	<i>Bulbostylis barbata</i>	+	<1 %	5 cm		Sedge =D114
	<i>Cheilanthes</i> aff. <i>tenuifolia</i> (B18)	+	<1 %	5 cm		
	<i>Clerodendrum tomentosum</i>	+	<1 %	20 cm		
	<i>Cymbopogon ambiguus</i>		<1 %	50 cm		=D114
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2.5		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>		<1 %	3 m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>		<1 %	2.1 m		
	<i>Mukia maderaspatana</i>		<1 %	1.1 m		
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	10 cm		=D114
	<i>Phyllanthus ciccoides</i>		<1 %	1.2		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>		<1 %			Herb, also in D114
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %	4 m		Especially lower part
	<i>Pterocaulon sphacelatum</i>		<1 %	60 cm		Usual
	<i>Rhagodia eremaea</i>		<1 %	1.1 m		
	<i>Scaevola spinescens</i> (narrow form)		<1 %	1.1 m		
	<i>Solanum horridum</i>		<1 %	20 cm	?	
	<i>Terminalia supranitifolia</i>	+	<1 %	2.5 m		
	<i>Tinospora smilacina</i>		<1 %			
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>		<1 %	1.1 m		Trachy zey?

Dolphin Island Site D101

Described by VLL **Date** 29/05/00

Location Midway along west coast of Dolphin Island (parallel to D95).

Photo Notes

AMG Zone 50 482714mE, 7734659mN 482761mE, 7734634mN 482715mE, 7734625mN 482737mE, 7734649mN

Habitat Gently sloping "terrace", stony with small rock outcrops 1.5 x 1.0 m, mid-level between drop into deep gully to NW and rockpile ridge SE - west facing ridge (exposed to westerlies).

Soil Red-brown, sandy.

Rock Type Rocks varying beneath 10-50 cm diameter, fire ground grey-red Rhyadocote.

Vegetation Acacia pyrifolia (slender, white) high shrubland over Triodia epactia (Burrup form) closed hummock grassland.

Veg Condition Excellent - no weeds.

Fire Age N/A

Notes Relatively dense Acacia pyrifolia (slender, white) within 3 m from base of rock ridge - included in quadrat.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	30 cm	D102-17	Under Brachychiton
	Acacia colei	+	<1 %	1.5 m	D102-22	
	Acacia coriacea subsp. coriacea	+	<1 %	1.5 m	D102-10	
	Acacia pyrifolia (slender, white)	10-15%	10-25%	2-3 m	D102-6	Glaucous
	Boerhavia coccinea (form B)	+	<1 %	35 cm	D102-8	specimen is B. gardneri
	Boerhavia sp.	+	<1 %	30 cm	D102-14	2
	Brachychiton acuminatus	+	<1 %	2-5 m		
	Bulbostylis barbata	+	<1 %	2 cm	D102-13	
	Cleome viscosa	+	<1 %	40 cm	D102-7	
	Clerodendrum tomentosum	+	<1 %	50cm-1.7	D102-3,23	{Recorded twice}
	Corchorus walcottii	+	<1 %	35 cm	D102-1	
	Cymbopogon ambiguus	+	<1 %	40 cm	D102-19	?
	Cynanchum floribundum	+	<1 %	1 m	D102-9	Scrambling
	Euphorbia coghlanii	+	<1 %	30 cm	D102-4	
	Gomphrena cunninghamii	+	<1 %	20 cm		
	Goodenia microptera	+	<1 %	35 cm	D102-18	
	Hibiscus aff. platyklamys (M39-14)	+	<1 %	25 cm	D102-2	
	Indigofera monophylla (Burrup form)	+	<1 %	35 cm	D102-20	
	Ipomoea costata	+	<1 %	45 cm		
	Mollugo molluginis	+	<1 %	10-20 cm	D102-16	Seedling, {Recorded
	Mukia maderaspatana	+	<1 %	35 cm	D102-21	Scrambling
	Paspalidium clementii	+	<1 %	5 cm		Under Brachychiton
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	15 cm		
	Portulaca oleracea	+	<1 %	1 cm	D102-12	Juvenile
	Solanum horridum	+	<1 %	30 cm	D102-4	Also D102-11
	Streptoglossa decurrens	+	<1 %	25 cm		
	Tephrosia supina	+	<1 %	2 cm	D102-15	?eriopoda
	Themeda sp. Burrup (B84)	+	<1 %	35 cm		Rare
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	35 cm		
	Triodia epactia (Burrup Form)	70-80%	>75%	30-40 cm	D102-5	

Dolphin Island Site D103

Described by VLL **Date** 29/05/00

Location Midway along west coast of Dolphin Island (south of small mangrove bay).

Air Photo **Photo** 26 **on Roll** F1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 482571mE, 7734563mN 482504mE, 7734559mN 482529mE, 7734536mN 482560mE, 7734592mN

Habitat High rock pile, medium sized rocks (not vertical, not platy, more rounded chunks), westward facing slope.

Soil None on rock pile itself, but small pockets beneath of skeletal red-brown sandy soil.

Rock Type Red-brown fine grained rhyadocite.
Vegetation Brachychiton acuminata, Terminalia canescens low open woodland over Pittosporum phylliraeoides var. phylliraeoides, Acacia coriacea subsp. coriacea open shrubland over Triodia epactia (Burrup form) scattered grasses.

Veg Condition Excellent - no weeds.

Fire Age N/A

Notes Sample is 50 m along top of rock pile ~70 m down to base.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	+	<1 %	1.25 m		
	Acacia coriacea subsp. coriacea	<2%	1-5%	1 m	D103-1	
	Alectryon oleifolius	+	<1 %	1 m		
	Amaranthus sp. (D111)	+	<1 %		D103-15	
	Boerhavia gardneri	+	<1 %		D103-16	2
	Boerhavia sp.	+	<1 %	10 cm	D103-9	
	Brachychiton acuminatus	<=10	5-10%	1.5-2 m		
	Cassia glutinosa	+	<1 %	1.1 m	D103-14	
	Cleome viscosa	+	<1 %	40 cm		
	Commicarpus australis	+	<1 %	1 m	D103-8	Vine, spreading
	Cymbopogon ambiguus	+	<1 %	40 cm	D103-4	
	Ficus opposita var. indecora	+	<1 %	1.5 m	D103-11	
	Ficus platypoda var. G	+	<1 %	1 m	D103-10	
	Flueggea virosa subsp. melanthesoides	+	<1 %	1.5 m		
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	50 cm		
	Ipomoea costata	+	<1 %	1 m		
	Jasminum didymum subsp. lineare	+	<1 %		D103-2	
	Mukia maderaspatana	+	<1 %		D103-5	
	Pittosporum phylliraeoides var. phylliraeoides	<3	1-5%	2 m		
	Pterocaulon sphacelatum	+	<1 %	40 cm		
	Rhagodia preissii subsp. obovata	+	<1 %	1 m		
	Rhynchosia sp. Burrup (82-1C)	+	<1 %	1 m	D103-6	Viscid, spreading
	Scaevola spinescens (narrow form)	+	<1 %	1.25 m	D103-7	
	Solanum horridum	+	<1 %	30 cm	D103-12,1	{Recorded twice}
	Streptoglossa decurrens	+	<1 %	80 cm		
	Terminalia canescens	<5	1-5%	2.5 m		
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	35 cm		
	Trichosanthes cucumerina	+	<1 %	1.5 m		Vine
	Triodia epactia (Burrup Form)	+	<1 %	30-40 cm	D103-3	
	Triumfetta appendiculata (Burrup Form)	+	<1 %	45 cm		

Dolphin Island Site D104

Described by VLL **Date** 29/05/00

Location Midway along west coast Dolphin Island.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 482281mE, 7734464mN

Habitat Small beach dune, narrow, windblown sands W facing. Very exposed to W winds and high tidal surge.

Soil Light-greyish medium coarse beach sand with shell grit.

Rock Type N/A

Vegetation Acacia bivenosa open shrubland over Spinifex longifolius open hummock grassland with Swainsona pterostylis, Swainsona formosa scattered herbs.

Veg Condition Very good - windswept - natural disturbance.

Fire Age

Notes**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	<5%	1-5%	2 m		
	Acacia coriacea subsp. coriacea	+	<1 %	1.25	D104-3	
	Atriplex isatidea	+	<1 %	1 m		
	Euphorbia sp. (D105-1)	+	<1 %	25 cm	D104-2	
	Pterocaulon sphacelatum	+	<1 %	80 cm		
	Rhagodia preissii subsp. obovata	+	<1 %	1 m	D104-4	Specimen is R. preissii
	Salsola tragus	+	<1 %	30 cm		?Saltragus
	Spinifex longifolius	10-15%	10-25%	0.5-1 m		
	Swainsona formosa	+	<1 %	1 m		
	Swainsona pterostylis	+	<1 %	50 cm		
	Threlkeldia diffusa	+	<1 %	60 cm		
	Trianthema turgidifolia	+	<1 %	30 cm		
	Tribulus occidentalis	+	<1 %	1 m	D104-1	
	Triodia epactia (Burrup Form)	+	<1 %	30-40 cm		

Dolphin Island Site D105**Described by** VLL **Date** 29/05/00**Location** West coast of Dolphin Island - beach north of campsite, approx 1 km from D104.**Air Photo** **Photo** **on Roll** **Video** **N** **E Photo****Photo Notes****AMG Zone** 50 481695mE, 7733646mN**Habitat** West facing, low beach dune, windswept sands. Beach dune beneath rockpiles.**Soil** Whitish grey medium coarse beach sand with shell fragments.**Rock Type** N/A**Vegetation** Acacia bivenosa, Acacia coriacea subsp. coriacea open shrubland over Atriplex isatidea, Trianthema turgidifolia, Threlkeldia diffusa low shrubland over Spinifex longifolius hummock grassland.**Veg Condition** Excellent (wind exposure).**Fire Age** N/A**Notes** Naturally disturbed sites, wind and evidence of tidal surge.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	2%	1-5%	55 cm		
	Acacia coriacea subsp. coriacea	<2%	1-5%	1.75 m		
	Adriana tomentosa	+	<1 %	1 m		
	Atriplex isatidea	1-2%	1-5%	70 cm		
	Boerhavia coccinea (form B)	+	<1 %	2 m	D105-6	
	Euphorbia sp. (D105-1)	+	<1 %	5-25 cm	D105-3	{Recorded twice}
	Neobassia astrocarpa	+	<1 %	25-30	D105-5	
	Rhagodia preissii subsp. obovata	+	<1 %	80 cm		See 104-4
	Salsola tragus	+	<1 %	45 cm		?Saltragus
	Spinifex longifolius	50%	33.3-50%	0.5-1 m		
	Swainsona pterostylis	+	<1 %	30 cm		
	Synaptantha tillaeacea var. tillaeacea	+	<1 %	2 cm	D105-2	
	Threlkeldia diffusa	<2	1-5%	25 cm		
	Trianthema turgidifolia	<2	1-5%	40 cm		
	Triodia epactia (Burrup Form)	+	<1 %	30 cm	D105-7	

Dolphin Island Site D106

Described by VLL **Date** 30/05/00 50 x ~30-40 m

Location Rockpile approximately 1 km of camp beach.

Air Photo **Photo** 2 **on Roll** F2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 481755mE, 7732680mN 481731mE, 7732631mN

Habitat Mid-level rockpile, running E-E above mangrove tributary

Soil Small pockets with vegetation beneath rockpile.

Rock Type Medium to large sized fine grained rhyadocite.

Vegetation *Brachychiton acuminatus*, *Terminalia supranitifolia*, *Ficus platypoda*, *Ehretia saligna* var. *saligna* high open shrubland (to low open woodland) over *Flueggea virosa* ssp. *melanthesioides* scattered shrubs over *Rhagodia preissii* subsp. *obovata* low scattered shrubs

Veg Condition Excellent - no weeds.

Fire Age N/A

Notes Transect 50 m along top of rockpile down to base, approx. 30-40 m.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.25 m	D106-4	
	<i>Alectryon oleifolius</i>	+	<1 %	1 m		
	<i>Brachychiton acuminatus</i>	2-3%	1-5%	1-2.5 m		
	<i>Cleome viscosa</i>	+	<1 %	40 cm		
	<i>Cymbopogon ambiguus</i>	+	<1 %	80 cm	D106-1	?
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	35 cm		
	<i>Ficus platypoda</i>	+	<1 %	2 m	D106-2	var.?
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.5m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	20 cm		
	<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	25 cm		grazed
	<i>Pterocaulon sphacelatum</i>	+	<1 %	20 cm		
	<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	80 cm		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.5 m	D106-3	glabrous
	<i>Terminalia supranitifolia</i>	+	<1 %	1 m		
	<i>Triumfetta clementii</i>	+	<1 %	30 cm		

Dolphin Island **Site** D107

Described by VLL **Date** 30/05/00

Location *Triodia angusta* (Burrup form)/*Triodia epactia* (Burrup form) just above, and just south of, tidal inlet associated with Crab Creek.

Air Photo **Photo** 4 **on Roll** F2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 481642mE, 7732525mN 481628mE, 7732462mN

Habitat Gentle NNE slope from base of rockpile ridge (medium rocks), down to tidal inlet of Crab Creek.

Soil Red-brown sandy clay colluvial soil, moderate cover.

Rock Type

Vegetation *Indigofera monophylla* (Burrup form) low open heath over *Triodia angusta* (Burrup form), *Triodia epactia* (Burrup form) hummock grassland to closed hummock grassland.

Veg Condition Excellent - no weeds

Fire Age N/A

Notes Very dense *Triodia angusta* (Burrup form) with small patches or isolated *Triodia epactia* (Burrup form). Relatively dense *Indigofera monophylla* (Burrup form).

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
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<i>Boerhavia coccinea</i> (form B)	+	<1 %	10 cm	D107-7	
<i>Boerhavia gardneri</i>	+	<1 %	25 cm	D107-11	
<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	25 cm	D107-10	trailing
<i>Brachychiton acuminatus</i>	+	<1 %	1.25 m		One on small rockpile
<i>Bulbostylis barbata</i>	+	<1 %	10 cm		
<i>Cajanus cinereus</i>	+	<1 %	25 cm		
<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	25 cm		juvenile
<i>Eriachne mucronata</i> (typical form)	+	<1 %	35 cm	D107-3	
<i>Euphorbia</i> sp. (site 1163)	+	<1 %	10-35 cm	D107-5,4	Darker green,
<i>Goodenia microptera</i>	+	<1 %	30 cm	D107-8	
<i>Indigofera colutea</i>	+	<1 %	2 cm		
<i>Indigofera monophylla</i> (Burrup form)	30-40%	33.3-50%	30-40 cm	D107-6	{Recorded twice} Adult
<i>Ipomoea costata</i>	+	<1 %	20 cm		One only, grazed
<i>Mukia maderaspatana</i>	+	<1 %	60 cm		sprawling
<i>Pterocaulon sphacelatum</i>	+	<1 %			
<i>Streptoglossa decurrens</i>	+	<1 %	15 cm		
<i>Tephrosia supina</i>	+	<1 %	10 cm	D107-12	Under Triang, sterile
<i>Terminalia supranitifolia</i>	+	<1 %	1.25		
<i>Themeda</i> sp. Burrup (B84)	+	<1 %	3 cm	D107-9	Very grazed grass
<i>Triodia angusta</i> (Burrup Form)	50-60%	50-75%	40-50 cm	D107-1	
<i>Triodia epactia</i> (Burrup Form)	10-20%	10-25%	30-35 cm	D107-2	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	20 cm		
<i>Triumfetta clementii</i>	+	<1 %	25 cm		

Dolphin Island Site D108

Described by MET **Date** 29/05/00

Location West side of Dolphin Island, NNE and near camp area.

Air Photo **Photo** 16 **on Roll** M1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 482215mE, 7733077mN 482172mE, 7733048mN

Habitat Steep, E facing rockpile.

Soil Light brown, fine sandy loam.

Rock Type Grey, fine to medium grained.

Vegetation *Brachychiton acuminatus*, *Pittosporum phylliraeoides* var. *phylliraeoides*, *Eucalyptus victrix*, *Clerodendrum tomentosum* scattered low trees over *Acacia coriacea* subsp. *coriacea*, *Flueggea virosa* subsp. *melanthesoides* scattered tall shrubs over *Scaevola spinescens* (narrow form), *Rhagodia eremaea*, *Terminalia supranitifolia*, *Ipomoea costata* scattered shrubs.

Veg Condition Excellent.

Fire Age >10 years.

Notes *Terminalia canescens* (shrubs), *Scaevola spinescens*, *Flueggia*, small *Brachychiton* along upperedge. Also *Tinospora* and *Rhagodia*. Juvenile and mature *Clerodendrum* collected. *Solanum horridum* was on the north facing rockslope opposite site D108.

Rock Pile Notes Medium to large boulders, angular, some areas with mostly cobbles.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	10 cm		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1-3 m		
	<i>Alectryon oleifolius</i>	+	<1 %	30-60 cm		
	<i>Amaranthus</i> aff. <i>pallidiflorus</i> (D89)	+	<1 %	7 cm	D108-1	
	<i>Boerhavia gardneri</i>	+	<1 %	30 cm	D108-4	Near/at bottom only
	<i>Brachychiton acuminatus</i>	+	<1 %	3-4+ m		
	<i>Clerodendrum tomentosum</i>	+	<1 %	2-3.5 m	D108-2	
	<i>Cymbopogon ambiguus</i>	+	<1 %	60 cm		
	<i>Eucalyptus victrix</i>	+	<1 %	6+ m		
	<i>Ficus opposita</i> var. <i>aculeata</i>	+	<1 %	1.2-2.5	D108-3	Near/at bottom only
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2.7 m		

<i>Hakea chordophylla</i>	+	<1 %	1 m	D108-5	Near/at bottom only
<i>Ipomoea costata</i>	+	<1 %	1-1.6 m		
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1 m		
<i>Mukia maderaspatana</i>	+	<1 %	15 cm		=D89
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	40 cm		
<i>Phyllanthus ciccoides</i>	+	<1 %	1.4		<i>Phyllanthus "accoides"</i>
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	5 cm		
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %	2.7-3.8	D108-4	
<i>Pterocaulon sphacelatum</i>	+	<1 %	95 cm		
<i>Rhagodia eremaea</i>	+	<1 %	0.5-1.2 m		
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %	10 cm		Green, sticky =D88 and
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	0.5-1.78		
<i>Solanum horridum</i>	+	<1 %	15 cm	=D88	yellowish
<i>Terminalia canescens</i>	+	<1 %	1-3.5 m		
<i>Terminalia supranitifolia</i>	+	<1 %	1-1.8 m		
<i>Tinospora smilacina</i>	+	<1 %	3 m		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	30-90 cm		
<i>Triodia epactia</i> (Burrup Form)	+	<1 %	35 cm		
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	40-90 cm		
<i>Triumfetta clementii</i>	+	<1 %	15 cm		

Dolphin Island Site D109

Described by MET **Date** 30/05/00

Location West side of Dolphin Island.

Air Photo **Photo** 15 **on Roll** M2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 482310mE, 7733130mN 482437mE, 7733194mN

Habitat Small creekline in a gully with steep, mostly rocky slopes next to sides, slopes with *Eucalyptus victrix* included and creek bed.

Soil Dark brown loam amongst pebbles and cobbles (on slope), bed.

Rock Type N/R cobbley.

Vegetation *Eucalyptus victrix* low woodland over *Brachychiton accuminatus* scattered low trees over *Acacia coriacea* subsp. *coriacea*, *Fluggia virosa* subsp. *melanthesoides* high open shrubland over *Rhagodia eremaea*, *Scaevola spinescens* (narrow form) scattered shrubs over *Triodia epactia* (Burrup Form) very open hummock grassland with *Dicliptera armata* annual herbland and *Trichosanthes cucumerina* scattered lianes.

Veg Condition Excellent.

Fire Age >10 years (but charcoal on an old stump).

Notes Peg 1 near base of an *Eucalyptus victrix* on S side of creekbed. Recorded the creek bed and the slopes with *E. victrix*, avoiding the base of the rockpiles (excluded area with *Brachychiton*). Dried out now but bed has temporary pool. *Cyperus vaginatus* the only species recorded only from the creek bed. Some area where *Dicliptera armata* is absent are either bare, small patches of *Triodia* or small patches of *Paspalidium tabulatum*.
No *Triodia angusta* seen.
Presumably the abundant *D. armata* is due to the seepage from the adjoining slopes.
Peg 2 is in a split boulder ca 2 m N of creek bed. Due to short time length not measured, adequate for species list though.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	+	<1 %	10-35 cm		
	<i>Acacia bivenosa</i>	+	<1 %	2.4 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<5	1-5%	1-2.7 m	<2%?	
	<i>Acacia pyrifolia</i> (slender, white)	+	<1 %	0.6-2 m		Aca cf <i>pyrifolia</i> ,
	<i>Alectryon oleifolius</i>	+	<1 %	1.9		

<i>Ammannia baccifera</i>	+	<1 %	10-25 cm		
<i>Boerhavia burbridgeana</i>	+	<1 %	2 cm	D109-3	
<i>Brachychiton acuminatus</i>	+	<1 %	2.8 m		
<i>Cassia glutinosa</i>	+	<1 %	0.8-1.2 m		
<i>Cleome viscosa</i>	+	<1 %	60-90 cm		
<i>Commicarpus australis</i>	+	<1 %	90 cm		
<i>Corchorus walcottii</i>	+	<1 %	10 cm	D109-2	
<i>Cyperus vaginatus</i>	+	<1 %	0.4-1 m		
<i>Dicliptera armata</i>	>65	50-75%	30-95 cm		
<i>Eucalyptus victrix</i>	>20	10-25%	(2.5)4-8		
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2-3 m		
<i>Indigofera trita</i>	+	<1 %	10 cm		
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	35 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	35 cm		
<i>Portulaca oleracea</i>	+	<1 %	2-5 cm		
<i>Pterocaulon sphacelatum</i>	+	<1 %	5 cm		
<i>Rhagodia eremaea</i>	1-2	1-5%	1 m		
<i>Rhynchosia</i> sp. Burrup (82-1C)	+	<1 %			=D88, green sticky
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	2.2 m		
<i>Sesbania cannabina</i>	+	<1 %	1.2 m		
<i>Sida</i> aff. <i>fibulifera</i> (B235-7)	+	<1 %	15 cm	D109-5	<i>Sida</i> cf <i>fibulifera</i>
<i>Sida</i> aff. <i>fibulifera</i> (D109)	+	<1 %			
<i>Solanum horridum</i>	+	<1 %	20 cm	D109-4	
<i>Stemodia grossa</i>	+	<1 %	5 cm		
<i>Streptoglossa decurrens</i>	+	<1 %	20-80 cm		=D86
<i>Terminalia canescens</i>	+	<1 %	2.2 m		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	40-90 cm		
<i>Trichosanthes cucumerina</i>	+	<1 %	2.5 m		Tricum taken as tricuc
<i>Triodia epactia</i> (Burrup Form)	+	<1 %	30 cm	D109-1	
<i>Triumfetta appendiculata</i> (Burrup Form)	+	<1 %	40-50 cm		
<i>Triumfetta clementii</i>	+	<1 %	20 cm		

Dolphin Island Site D110

Described by MET **Date** 30/05/00

Location West side of Dolphin Island, north end near pearl farm shed.

Air Photo **Photo** 14 **on Roll** M1 **Video** N **E Photo**

Photo Notes

AMG Zone 50 484442mE, 7738573mN 484396mE, 7738524mN

Habitat Rockpile, southern part of which is next to the high water mark.

Soil Loamy brown sand.

Rock Type Grey, medium grained volcanic.

Vegetation *Brachychiton acuminatus* scattered low trees over *Pittosporum phylliraeoides* var. *phylliraeoides*, *Flueggea virosa* subsp. *melanthesoides* tall open shrubland over *Rhagodia eremaea* open shrubland over *Triodia angusta* (Burrup form), *Triodia epactia* (Burrup form) very open hummock grassland.

Veg Condition Excellent.

Fire Age >10 years.

Notes *Phyllanthus* in vegetation strip with most *Pittosporum phylliraeoides* var. *phylliraeoides*. *Canavalia* at the bottom of this strip near high tide mark. Some calcretisation where vegetation strips occur.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Abutilon fraseri</i>	+	<1 %	20 cm	
	<i>Abutilon indicum</i> var. <i>australiense</i>	+	<1 %	65 cm	D110-1
	<i>Alectryon oleifolius</i>	+	<1 %	20-40 cm	

<i>Boerhavia burbridgeana</i>	+	<1 %	20-50 cm	D110-3	
<i>Brachychiton acuminatus</i>	+	<1 %	4 m		
<i>Canavalia rosea</i>	+	<1 %	90 cm	D110-8	close to high tide mark
<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	35 cm		
<i>Cleome viscosa</i>	+	<1 %	60-90 cm		
<i>Enchylaena tomentosa</i>	+	<1 %	60 cm	D110-4	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	<2%	1-5%	1.3-3.5 m		
<i>Indigofera trita</i>	+	<1 %	30-60 cm		
<i>Ipomoea costata</i>	+	<1 %	1-2.8 m		
<i>Mukia maderaspatana</i>	+	<1 %	90 cm	D110-5	
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	35-60 cm		
<i>Phyllanthus ciccoides</i>	+	<1 %	50 cm		1x1.5 m across,
<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	+	<1 %	2-3 m		
<i>Pterocaulon sphacelatum</i>	+	<1 %	80 cm		=D86, common
<i>Rhagodia eremaea</i>	<2-3%	1-5%	1 m		
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	50 cm	D110-2	
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1-2.5 m		
<i>Solanum horridum</i>	+	<1 %	15 cm	D110-6	
<i>Streptoglossa decurrens</i>	+	<1 %	20 -70 cm		=D86, common
<i>Terminalia supranitifolia</i>	+	<1 %	1.3 m		
<i>Tinospora smilacina</i>	+	<1 %	1.3		
<i>Triodia angusta</i> (Burrup Form)	5-10%	5-10%	40-70 cm		
<i>Triodia epactia</i> (Burrup Form)	+	<1 %	60 cm	D110-7	

Dolphin Island Site D111

Described by MET **Date** 30/05/00

Location Next to pearl farm yard.

Air Photo **Photo** 13 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 484384mE, 7738658mN 484427mE, 7738638mN 484394mE, 7738668mN 484444mE, 7738672mN

Habitat Low dune of calcareous sand, pale brown, and shell grit.

Soil

Rock Type

Vegetation *Acacia bivenosa* shrubland to high shrubland over *Adriana tomentosa*, *Rhagodia eremaea* shrubland over *Paspalidium tabulatum* (Burrup Form) scattered tussock grasses.

Veg Condition Good - very good. Possibly better, but hard to tell.

Fire Age >10 years.

Notes At inland edge grades int vegetation dominated by *Triodia*. Plot size and shape selected to fit the small area of the unit present.

Peg 5 coordinates: 50K-04-84-440
UTM-77-38-640

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	>15	10-25%	(0.5)		
	<i>Adriana tomentosa</i>	10-15	10-25%	40-90 cm	D111-4	
	<i>Amaranthus</i> sp. (D111)	+	<1 %	25 cm	D111-5	
	<i>Boerhavia coccinea</i> (form B)	+	<1 %	5-20 cm	D111-1	
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	90 cm		
	<i>Cleome viscosa</i>	+	<1 %	15-40 cm		
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	+	<1 %	75 cm	D111-6	
	<i>Indigofera trita</i>	+	<1 %	6-25 cm		
	<i>Paspalidium tabulatum</i> (Burrup Form)	1-2	1-5%	20-85 cm		
	<i>Rhagodia eremaea</i>	<=5	1-5%	0.7-1.6 m		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	60 cm		

Swainsona formosa	+	<1 %	7-15 cm	
Synaptantha tillaeacea var. tillaeacea	+	<1 %	1-3 cm	
Threlkeldia diffusa	+	<1 %	40 cm	D111-2
Triodia epactia (Burrup Form)	+	<1 %	50 cm	D111-3

Dolphin Island Site D112

Described by MET **Date** 30/05/00

Location

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50

Habitat Small flat area above steeply sloping beach.

Soil Coarse sand of (surface) shellgrit, pale brown with white.

Rock Type N/R

Vegetation Swainsona formosa very open annual herbland.

Veg Condition

Fire Age

Notes Probably subject to storm surge and very high tides.
Not pegged, adjacent to D111.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Amaranthus sp.	+	<1 %	7 cm		=D111
	Cleome viscosa	+	<1 %	15 cm		
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	6 cm		=D111
	Pterocaulon sphacelatum	+	<1 %	15 cm		common
	Swainsona formosa	<=5	1-5%	5-30 cm		
	Synaptantha tillaeacea var. tillaeacea	+	<1 %	5 cm		
	Trianthema turgidifolia	+	<1 %	35 cm		

Dolphin Island Site D114

Described by ASW **Date** 30/05/00

Location Rockpile adjacent to D115 creek bed (SE).

Air Photo **Photo** **Y** **on Roll** **AS** **Video** **N** **E Photo**

Photo Notes 19A, 20A (Gymnanthera).

AMG Zone 50 481961mE, 7733384mN 482023mE, 7733414mN

Habitat Steep to very steep boulder slopes (rockpile) on each side of ridge.

Soil Gritty red loam, loose in crevices.

Rock Type Weathered platey formation, coarse grain. Fine grain angular-subangular. Cover >90%.

Vegetation Terminalia canescens, Brachychiton acuminatus, Ehretia saligna var saligna scattered low trees over Flueggea virosa subsp. melanthesoides, Acacia coriacea subsp. coriacea, Jasminum didymum subsp. lineare scattered shrubs over Rhagodia eremaea scattered low shrubs over Triodia epactia (Burrup form), Cymbopogon ambiguus scattered hummock/tussock grasses.

Veg Condition Excellent.

Fire Age

Notes Patch of Triodia epactia (Burrup form) on top, surrounded by slopes, yet not a rockpile pocket. Gymnanthera cunninghamii shrubs and some other species in the 'ecotone' but not patches proper.
Three pockets of vegetation, otherwise plants occur mainly as individuals.

Rock Pile Notes Entire rockpile sampled (both sides).

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	1	1-5%	1.2		
	Alectryon oleifolius		<1 %	40 cm		
	Brachychiton acuminatus		<1 %	2.5 m		
	Bulbostylis barbata	+	<1 %	5 cm	D114-6	small sedge
	Clerodendrum tomentosum	+	<1 %	1.2 m		
	Cymbopogon ambiguus		<1 %	60 cm	D114-1	
	Ehretia saligna var. saligna		<1 %	3.5 m		
	Enchylaena tomentosa		<1 %	50 cm		
	Eriachne mucronata (typical form)		<1 %	40 cm	D114-2	
	Ficus opposita var. indecora		<1 %	2.2 m		
	Flueggea virosa subsp. melanthesoides		<1 %	3 m		
	Gymnanthera cunninghamii		<1 %	1.10 m	D114-5	Upper edge of rockpile,
	Indigofera monophylla (Burrup form)		<1 %	40 cm		
	Jasminum didymum subsp. lineare	1	1-5%	1.5		
	Paspalidium tabulatum (Burrup Form)		<1 %	50 cm	D114-4	
	Plumbago zeylanica		<1 %	1.2 m	D114-3	
	Pterocaulon sphacelatum		<1 %	80 cm		usual
	Rhagodia eremaea		<1 %	1.5 m		smelly
	Scaevola spinescens (narrow form)		<1 %	1.2 m		
	Solanum horridum	+	<1 %	10 cm		
	Terminalia canescens		<1 %	3 m		
	Terminalia supranitifolia		<1 %	2.8 m		near edges
	Tinospora smilacina		<1 %			
	Trichodesma zeylanicum var. zeylanicum		<1 %	30 cm		
	Triodia epactia (Burrup Form)	+1	1-5%	40 cm		
	Triumfetta appendiculata (Burrup Form)		<1 %	50 cm		felty, green?

Dolphin Island Site D115**Described by** ASW **Date** 30/05/00**Location** Just E of mangrove flats NE of campsite, Terminalia canescens creekbed.**Air Photo** **Photo** Y **on Roll** AS **Video** N **E Photo****Photo Notes** 16A,17A,18A.**AMG Zone** 50 481878mE, 7733342mN 481961mE, 7733384mN**Habitat** Rocky creek bed with rocky tussocks and overstorey of Terminalia canescens running 250 degrees into mangal. There are a few small pools in the plot that will probably be dry in a week. There are larger pools upstream from the site, in the same community.**Soil** Skeletal brown sandy loam, clay loam in spots. Good mulch cover.**Rock Type** Fine grained dark blue with some grey inside. Weathered grey in creek bed, red above it. Cobbles and boulders cover 90% of the surface.**Vegetation** Terminalia canescens, (Brachychiton acuminata) low woodland to low open forest over Cyperus vaginatus, Eriachne tenuiculmis open sedgeland/grassland with Sesbania cannabina tall very open annual herbland.**Veg Condition** Very good - excellent.**Fire Age****Notes** The plot is the bed of a watercourse and margins to boulder and/or Triodia . It includes most of the Eriachne tenuiculmis.
Heavy grazing, especially of Cyperus vaginatus, Ammannia baccifera.
Pluchea rubelliflora was nearby in the same community type.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %	2 m		
	Ammannia baccifera	2	1-5%		D115-4	2 species?

<i>Brachychiton acuminatus</i>	+	<1 %	2.5 m		edge
<i>Bulbostylis barbata</i>	+	<1 %	<5 cm	D115-5	Sedge. 2 species? Edge
<i>Cymbopogon ambiguus</i>	+	<1 %	50 cm		
<i>Cyperus bifax</i>	1	1-5%	70 cm	D115-3	if flat
<i>Cyperus squarrosus</i>	+	<1 %			B. Nearby, same
<i>Cyperus vaginatus</i>	20	10-25%	70 cm	D115-2	if level
<i>Eriachne tenuiculmis</i>	15	10-25%	50 cm	D115-1	
<i>Ficus opposita</i>	+	<1 %	20 cm		edge
<i>Paspalidium tabulatum</i> (Burrup Form)	+	<1 %	20 cm	D115-8	edge
<i>Phyllanthus ciccoides</i>	+	<1 %	1.5 m		shrub, edge only
<i>Pluchea rubelliflora</i>	+/-1	<1 %	10 cm	D115-6	
<i>Pterocaulon sphacelatum</i>	+	<1 %	<5		usual
<i>Sesbania cannabina</i>	10	5-10%	2 m		
<i>Streptoglossa decurrens</i>	+	<1 %	15 cm	D115-7	
<i>Terminalia canescens</i>	35	33.3-50%	3.5->5 m		
<i>Triodia epactia</i> (Burrup Form)	+	<1 %	50 cm		

Dolphin Island Site D116

Described by ASW **Date** 30/05/00

Location N end of Island on second ridge NE of pearl farm shed.

Air Photo **Photo** 24A **on Roll** AS **Video** N **E Photo**

Photo Notes Photo from W of pocket.

AMG Zone 50 484758mE, 7738485mN 484791mE, 7738464mN

Habitat Dense patch of vegetation on rockpile N of E of pearl farm building.

Soil Loose brown loam where present.

Rock Type Medium grain, white and grey flecks. Surface rusty red, pale when scratched. Cover >90%

Vegetation *Brachychiton acuminatus* low open woodland over *Alectryon oleifolius*, *Rhagodia eremaea* open shrubland.

Veg Condition Excellent.

Fire Age

Notes The rockpile vegetation on this part of the Island seems to be species poor. Most is *Brachychiton acuminatus*, with few other species. *Flueggia virosa* subsp. *melanthesiodes* is on a few. There are a few *Pittosporum phylliraeoides* var. *phylliraeoides* several hundred metres due E.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Alectryon oleifolius</i>	<5%	1-5%	80 cm	
	<i>Brachychiton acuminatus</i>	10-15%	10-25%	4 m?	
	<i>Rhagodia eremaea</i>	+	<1 %	1 m	
	<i>Trichosanthes cucumerina</i>	+	<1 %	4 m?	

Dolphin Island Site D117

Described by ASW **Date** 30/05/00

Location NE of D116, on slope below. Along line travelling N between GPS points and including all rockpile behind to E and S.

Air Photo **Photo** 21 **on Roll** MH **Video** N **E Photo**

Photo Notes

AMG Zone 50 484792mE, 7738481mN 484804mE, 7738491mN

Habitat Steep to very steep rocky slope and vegetated terrace.

Soil Thin, coarse brown loam. Lots of organic matter.

Rock Type Coarse grain light blue/grey with quartz crystals. >60% surface cover.

Vegetation *Brachychiton acuminatus*, *Terminalia supranitifolia* low woodland over *Flueggia virosa* ssp.

melanthesoides, *Phyllanthus ciccoides* high shrubland over *Rhagodia eremaea* open shrubland.

Veg Condition Good - very good.

Fire Age

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	<1 %		40 cm	D117-2	
	<i>Achyranthes aspera</i>	<1 %		>2 m	D117-1	
	<i>Boerhavia burbridgeana</i>	<1 %		10 cm	D117-3	narrow
	<i>Brachychiton acuminatus</i>	10-15%	10-25%	3 m		
	<i>Enchylaena tomentosa</i>	<1 %				Nearby, near Peg 1
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	10-15%	10-25%	3.5 m		
	<i>Paspalidium tabulatum</i> (Burrup Form)	<1 %				=D110
	<i>Phyllanthus ciccoides</i>	5-10%	5-10%	2 m		
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	<1 %		30 cm		herb
	<i>Rhagodia eremaea</i>	10-15%	10-25%	1.8		smelly
	<i>Rhynchosia</i> cf. <i>minima</i>	<1 %		30 cm		[presumed to be
	<i>Terminalia supranitifolia</i>	5-10%	5-10%	3 m		
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	<1 %		30 cm		
	<i>Trichosanthes cucumerina</i>	<1 %		3 m		

Dolphin Island Site D118

Described by ASW **Date** 30/05/00

Location Approximately 100 m NW of D117 in creek bed.

Air Photo **Photo** 24 **on Roll** MH **Video** N **E Photo**

Photo Notes

AMG Zone 50 484702mE, 7738561mN

Habitat Alluvial? Flat to gently sloping broad valley.

Soil

Rock Type

Vegetation *Acacia bivenosa*, *Acacia coriacea* subsp. *coriacea* open shrubland over *Paspalidium tabulatum* (Burrup Form) scattered tussock grasses with *Boerhavia repleta*, *Euphorbia tannensis* subsp. *eremophila* (Burrup form), *Phyllanthus maderaspatensis* var. *angustifolius*, *Swainsona formosa*, *Crotalaria novae-hollandiae* subsp. *novae-hollandiae* closed annual herbland.

Veg Condition Excellent to very good.

Fire Age

Notes One peg (1) only put in herbfield immediately SE of 'creek'. Recommend a creekline 100 m plot going upstream from peg (D118) and a plot through 100% herbfield (=D118). Incomplete. To be continued next trip!

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	<5%	1-5%	1.5 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<2	1-5%	2 m		
	<i>Boerhavia repleta</i>	>90	>75%	30 cm		
	<i>Crotalaria novae-hollandiae</i> subsp.	<5%	1-5%	50 cm		
	<i>Cucumis melo</i>	+	<1 %		DI-B	Near pearl farm shed
	<i>Dicliptera armata</i>	5	5-10%	50 cm		
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Burrup form)	20	10-25%	50 cm	D118-1	
	<i>Indigofera trita</i>	10	5-10%	50 cm	D118-5	
	<i>Malvastrum americanum</i>	+	<1 %			
	<i>Paspalidium tabulatum</i> (Burrup Form)	2	1-5%	40 cm		

Phyllanthus maderaspatensis var. angustifolius	10	5-10%	50 cm	D118-2	herb
Swainsona formosa	10	5-10%	50 cm		
Swainsona pterostylis	2	1-5%	60 cm	D118-3	
Tribulus occidentalis	+	<1 %		DI-A	Near pearl farm shed
Zaleya galericulata	2	1-5%	30 cm	D118-4	=B117-A

Dolphin Island Site D121

Described by VLL **Date** 30/05/00

Location Bay opposite campsite (to W) on spit.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 481138mE, 7732475mN

Habitat Wind-blown E facing sand dune, accreting between rockpiles - very exposed.

Soil Medium-coarse grey/white beach sand with shell fragments.

Rock Type Rockpile beneath dune (not sampled) grey-brown rhyadocite.

Vegetation Acacia bivenosa, Rhagodia preissii subsp. obovata shrubland over Spinifex longifolius open hummock grassland.

Veg Condition Excellent. No weeds, but naturally disturbed by wind and wave.

Fire Age N/A

Notes Sample is very small,, approx 25x30 m only. After that the habitat and exposure changes to D122,

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	5-10%	5-10%	1.5 m		
	Acacia coriacea subsp. coriacea	+	<1 %		D121-1	
	Capparis spinosa var. nummularia	+	<1 %	35 cm		
	Dysphania plantaginella	+	<1 %	15 cm	D121-4	
	Euphorbia sp. (BPBS2)	+	<1 %	5 cm	D121-3	?
	Pterocaulon sphacelatum	+	<1 %	35 cm		
	Ptilotus villosiflorus	+	<1 %		D121-2	seedling
	Rhagodia preissii subsp. obovata	5-10%	5-10%	1 m		
	Salsola tragus	+	<1 %	20-30 cm		
	Spinifex longifolius	<15-20	10-25%			
	Synaptantha tillaeacea var. tillaeacea	+	<1 %	15 cm		
	Terminalia supranitifolia	+	<1 %	1.2 m		against rockpile
	Threlkeldia diffusa	+	<1 %	30 cm		
	Trianthema turgidifolia	+	<1 %	20-30 cm		

Dolphin Island Site D122

Described by VLL **Date** 30/05/00 **30x80 m**

Location Bay behind (SW) of spit opposite campsite beach.

Air Photo **Photo** 6,7 **on Roll** F2 **Video** **N** **E Photo**

Photo Notes

AMG Zone 50 481133mE, 7732399mN 481081mE, 7732321mN

Habitat N-NW facing low dune which backs up to a rockpile behind. Exposed, but more sheltered than the direct E facing spit to the E. Beach is windswept and subject to tidal surge - only very isolated Spinifex longifolia.

Soil White-grey beach sand with shell fragments.

Rock Type

Vegetation Acacia coriacea subsp. coriacea, Acacia bivenosa, Rhagodia preissii subsp. obovata open heath over Spinifex longifolius, Triodia epactia (Burrup form) scattered hummock grasses.

Veg Condition Excellent - no weeds.

Fire Age

Notes Transect is long and narrow, 30x80 m along vegetated portion of dune. Rockpile behind dune not sampled.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	10-15%	10-25%	1-2 m	D122-1,2	grey. Specimen
	Acacia coriacea subsp. coriacea	10-15%	10-25%	1-2 m	D122-8	
	Adriana tomentosa	+	<1 %	40 cm		
	Atriplex isatidea	+	<1 %	40 cm		
	Boerhavia coccinea (form B)	+	<1 %	20 cm	D122-12	2, ?schomburgkiana?
	Boerhavia gardneri	+	<1 %	35 cm	D122-11	1, spreading
	Clerodendrum tomentosum	+	<1 %	25 cm	D122-10	Serrated leaves?
	Euphorbia sp. (D105-1)	+	<1 %	10 cm	D122-4	
	Euphorbia sp. (site 1163)	+	<1 %		D122-5	
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	20 cm	D122-6	
	Indigofera monophylla (Burrup form)	+	<1 %	30 cm	D122-12	two x D122-12!?
	Mukia maderaspatana	+	<1 %	40 cm		spreading
	Pittosporum phylliraeoides var. phylliraeoides	+	<1 %	1.75		
	Rhagodia preissii subsp. obovata	<5%	1-5%	1 m		
	Scaevola spinescens (narrow form)	+	<1 %	90 cm	D122-7	
	Solanum horridum	+	<1 %	35 cm	D122-9	
	Spinifex longifolius	+	<1 %	90 cm		
	Streptoglossa decurrens	+	<1 %	35 cm		
	Swainsona pterostylis	+	<1 %	25 cm		
	Synaptantha tillaeacea var. tillaeacea	+	<1 %	2 cm		
	Threlkeldia diffusa	+	<1 %	35 cm		
	Tinospora smilacina	+	<1 %			Over pitphy
	Trachymene aff. oleracea (B61)	+	<1 %	25 cm	D122-3	
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	40 cm		
	Triodia epactia (Burrup Form)	+	<1 %	25 cm		

Dolphin Island Site D123

Described by VLL **Date** 30/05/00 **Size** 25-30 x 80 m

Location Towards N end of Dolphin Island.

Air Photo **Photo** 12 **on Roll** F2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 484600mE, 7738922mN 484650mE, 7738968mN

Habitat Sandy 'island' running between Mangroves along shoreline and inland Mangroves. Narrow, 25 m wide x ~1 km long.

Soil Coarse white-grey sand with large component of shell fragment.

Rock Type Very scattered 20-25 cm grey-brown fine grain rock.

Vegetation Acacia bivenosa, (Flueggea virosa subsp. melanthesoides) open heath over Scaevola spinescens (narrow form), Adriana tomentosa scattered low shrubs over Triodia angusta (Burrup form) hummock grassland.

Veg Condition Excellent - no weeds.

Fire Age

Notes Transect 25-30 m wide x 80 m long on narrow 'island'.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	40-50%	33.3-50%	1-1.5 m		grey-green
	Adriana tomentosa	+	<1 %	25-40 cm		
	Boerhavia coccinea (form B)	+	<1 %	35 cm	D123-6	?sch

<i>Cassytha capillaris</i>	+	<1 %		D123-4	Entwined in Triodia
<i>Cleome viscosa</i>	+	<1 %	30 cm		
<i>Cymbopogon ambiguus</i>	+	<1 %	35 cm	D123-11	
<i>Euphorbia coghlani</i>	+	<1 %	20-40 cm	D123-?	Triodia sp aff
<i>Euphorbia</i> sp. (D105-1)	+	<1 %	20 cm	D123-10	?aus/dru?
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1 m		
<i>Indigofera trita</i>	+	<1 %	20 cm		
<i>Paspalidium clementii</i>	+	<1 %	2 cm	D123-5	Well grazed
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm	D123-3	
<i>Pterocaulon sphacelatum</i>	+	<1 %	35 cm		
<i>Pterocaulon sphaeranthoides</i>	+	<1 %	20 cm	D123-7	
<i>Pterocaulon sphaeranthoides</i> x <i>sphacelatum</i>	+	<1 %	25 cm	D123-8	
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	+	<1 %	20 cm		
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	40 cm		
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	50 cm	D123-9	glabrous
<i>Sesuvium portulacastrum</i>	+	<1 %		D123-2	
<i>Solanum horridum</i>	+	<1 %			As for site D122
<i>Streptoglossa decurrens</i>	+	<1 %	45 cm		
<i>Swainsona formosa</i>	+	<1 %	20 cm		
<i>Threlkeldia diffusa</i>	+	<1 %	30-40 cm		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	80 cm		
<i>Triodia angusta</i> (Burrup Form)	40-50%	33.3-50%	40	D123-1	

Dolphin Island Site D124

Described by VLL **Date** 30/05/00

Location Very steep coastal rockpile slopes adjacent to pearl farm (N end pearl farm area).

Air Photo **Photo** 13 **on Roll** F2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 484938mE, 7739150mN

Habitat Steep coastal slopes down to cobble shoreline. Slope is densely Triodia covered, beneath very large quartz-like (with mica) block-rocks to 1.5-2 m across. Walls and outcrops of conglomerate rock - most of the slope is composed of conglomerate rock.

Soil Mostly conglomerate rock and eroded conglomerate rock.

Rock Type Quartz-like (with mica) blocks 1.5-2 m diameter, coarse grained, and smaller rocks 25-30 cm. Outcrops of coastal conglomerate.

Vegetation *Ficus opposita* var. *indecora*, *Cajanus cinereus*, *Ipomoea costata* low open shrubland over *Triodia angusta* (Burrup form) closed hummock grassland.

Veg Condition Excellent - no weeds.

Fire Age N/A

Notes Triodia is 100% dense on conglomerate material; spilling down beneath conglomerate are narrow corridors of red coarse-grained rock - no vegetation on these.

Rock Pile Notes Conglomerate rock makes up most of slope, beneath scattered 'block rock'.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia bivenosa</i>	+	<1 %	1.25 m		grey-green
	<i>Boerhavia gardneri</i>	+	<1 %	20 cm	D124-7	
	<i>Brachychiton acuminatus</i>	+	<1 %	1.75 m		
	<i>Cajanus cinereus</i>	<2%	1-5%	1 m		
	<i>Cassytha capillaris</i>	+	<1 %			as for D123
	<i>Corchorus walcottii</i>	+	<1 %	40 cm	D124-4	
	<i>Euphorbia</i> sp. (site 1163)	+	<1 %	15 cm	D124-3	Eup dru/myr
	<i>Ficus opposita</i> var. <i>indecora</i>	<5%	1-5%	60 cm	D124-6	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1 m		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	35 cm		
	<i>Indigofera trita</i>	+	<1 %	25 cm		
	<i>Ipomoea costata</i>	+	<1 %	1 m		

<i>Mukia maderaspatana</i>	+	<1 %		D124-8	
<i>Pterocaulon sphacelatum</i>	+	<1 %			
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1 m	D124-1	
<i>Solanum phlomoides</i>	+	<1 %	50 cm	D124-5	
<i>Streptoglossa decurrens</i>	+	<1 %	45 cm		
<i>Terminalia supranitifolia</i>	+	<1 %	30cm-1 m	D124-2	{Recorded twice},
<i>Triodia angusta</i> (Burrup Form)	70-100	>75%	45-65 cm		
<i>Triodia epactia</i> (Burrup Form)	+	<1 %	30 cm		variety?

Dolphin Island Site D125

Described by VLL **Date** 30/05/00

Location Toward the N end of Dolphin Island, adjacent to the N end of the prawn(?) farm.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes

AMG Zone 50

Habitat Very rough grained red rock piles, large rocks, above conglomerate rock strips of D124.

Soil

Rock Type Large-jointed very rough coarse grained red rock.

Vegetation *Brachychiton acuminatus*, *Pittosporum phylliraeoides* var. *phylliraeoides* high shrubland over *Scaevola spinescens* (narrow form), *Ipomoea costata* scattered low shrubs.

Veg Condition Excellent, no weeds.

Fire Age N/A

Notes Pocket woodland on large rocks.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Brachychiton acuminatus</i>	5-10%	5-10%	1.5-2 m		
	<i>Cymbopogon ambiguus</i>	+	<1 %		D125-1	
	<i>Ficus platypoda</i> var. D	+	<1 %	1.5 m	D125-2	
	<i>Ficus virens</i> var. <i>sublanceolata</i>	+	<1 %		D125-4	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	80 cm		
	<i>Ipomoea costata</i>	+	<1 %	1 m		
	<i>Pittosporum phylliraeoides</i> var. <i>phylliraeoides</i>	5-10%	5-10%	1.5-2 m		
	<i>Rhagodia preissii</i> subsp. <i>obovata</i>	+	<1 %	1 m		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1 m	D125-3	glabrous, lime green.
	<i>Solanum lasiophyllum</i>	+	<1 %	35 cm		
	<i>Terminalia supranitifolia</i>	+	<1 %	1 m		
	<i>Tinospora smilacina</i>	+	<1 %			vine
	<i>Trichosanthes cucumerina</i>	+	<1 %			vine
	<i>Triodia angusta</i> (Burrup Form)	+	<1 %	50 cm		

Gidley Island quadrats

Gidley Island Site G130

Described by VLL **Date** 31/05/00

Location Towards the N end of Gidley Island, NW side.

Air Photo **Photo** Y **on Roll** F2 **Video** N **E Photo**

Photo Notes 22; 23 shows slope down to coastal plateau.

AMG Zone 50 479680mE, 7737882mN 479709mE, 7737959mN 479664mE, 7737908mN 479702mE, 7737976mN

Habitat Moderately steep coastal slope above coastal sands, Themeda sp. Burrup (B84) slope with granite rocks and boulders.

Soil Pale, pinky-brown sandy soil - some very coarse grained - and small pebbles.

Rock Type

Vegetation Ipomoea costata scattered shrubs over Themeda sp. Burrup (B84), Sorghum plumosum, Triodia angusta (Burrup form) tussock/hummock grassland with Goodenia microptera very open herbland.

Veg Condition Good - relatively frequent kapok.

Fire Age N/A

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia orthocarpa	+	<1 %	<25 cm	G130-6	
	Aerva javanica	2	1-5%	15-20 cm		
	Boerhavia gardneri	+	<1 %		G130-11	woody, spreading
	Bonamia media var. villosa	+	<1 %	30 cm	G130-5	sprawling
	Cajanus cinereus	+	<1 %	45 cm		
	Corchorus walcottii	+	<1 %	35 cm	G130-3	
	Euphorbia coghlani	+	<1 %	20 cm	G130-7	
	Evolvulus alsinoides var. villosicalyx	+	<1 %	20 cm	G130-8	
	Goodenia microptera	5	5-10%	30 cm	G130-10	
	Hybanthus aurantiacus	+	<1 %	30 cm		
	Indigofera trita	+	<1 %	30 cm		
	Ipomoea costata	<2	1-5%	80 cm		
	Melhania sp. Fortescue (M33-22)	+	<1 %	25 cm	G130-4	Sterile
	Mukia maderaspatana	+	<1 %	40 cm	G130-12	
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	25 cm		
	Pterocaulon sphacelatum	+	<1 %	25 cm		
	Pterocaulon sphaeranthoides x sphacelatum	+	<1 %	30 cm	G130-2	Pte aff sph-more hairy?
	Rhynchosia cf. minima	+	<1 %		G130-9	grey-green, spreading
	Sarcostemma viminalis subsp. australe	+	<1 %	50 cm		
	Sorghum plumosum	15-20	10-25%	60 cm		
	Striga curviflora	+	<1 %	10 cm	G130-1	
	Tephrosia aff. supina (MET 12,357)	+	<1 %	25 cm		mauve
	Themeda sp. Burrup (B84)	40%	33.3-50%	30-35 cm		
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	45 cm		
	Triodia angusta (Burrup Form)	10-15	10-25%	30 cm		

Gidley Island Site G131

Described by VLL **Date** 31/05/00

Location Rockpile above Themeda triandra slope of G130 - NW side of Gidley Island towards N end.

Air Photo **Photo** 24 **on Roll** F2 **Video** N **E Photo**

Photo Notes

AMG Zone 50 479660mE, 7737910mN 479664mE, 7737962mN

Habitat Rockpile above Themeda slope (G130), medium-jointed red-brown medium grained rocks, facing ENE and exposed to winds. Too far from beach (900 m) for much salt spray effect.

Soil

Rock Type Fine-medium grained red-brown, medium jointed blocks.`

Vegetation Ipomoea costata, Abutilon indicum var australiense, Pittosporum phylliraeoides var phylliraeoides, Flueggea virosa subsp. melanthesoides, Rhagodia preissii subsp. obovata open shrubland to shrubland over Themeda sp. Burrup (B84), Sorghum plumosum very open tussock grassland.

Veg Condition Very good, but kapok in soil pockets with vegetation.

Fire Age N/A

Notes Vegetation in soil pockets dense - dense tall (1-1.25 m) Abutilon indicum - also dense Ipomoea costata.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon indicum var. australiense	5-10%	5-10%	80 cm	G131-4	
	Abutilon lepidum	+	<1 %	50 cm	G131-3	
	Acacia bivenosa	+	<1 %	1.25 m		grey green
	Aerva javanica	1%	1-5%	50 cm		
	Alectryon oleifolius	2	1-5%	30-40 cm		
	Cajanus cinereus	+	<1 %	1.5 m		
	Capparis spinosa var. nummularia	+	<1 %	45 cm		
	Evolvulus alsinoides var. villosicalyx	+	<1 %	15 cm	G131-2	
	Flueggea virosa subsp. melanthesoides	3%	1-5%	1.5		
	Indigofera trita	+	<1 %	35 cm		
	Ipomoea costata	10-15%	10-25%	1 m		
	Mukia maderaspatana	+	<1 %	50 cm	G131-?	
	Paspalidium tabulatum (Burrup Form)	+	<1 %	35 cm		
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	30 cm		
	Pittosporum phylliraeoides var. phylliraeoides	3%	1-5%			
	Rhagodia preissii subsp. obovata	3%	1-5%	1.25 m		
	Rhynchosia cf. minima	+	<1 %	45 cm		as for 130
	Sarcostemma viminalis subsp. australe	+	<1 %	1 m		edge
	Scaevola spinescens (narrow form)	+	<1 %	1 m	G131-1	
	Sorghum plumosum	1%	1-5%			
	Themeda sp. Burrup (B84)	2	1-5%	40 cm		
	Tinospora smilacina	+	<1 %			vine
	Trichosanthes cucumerina	+	<1 %	1 m		sprawling
	Triodia epactia (Burrup Form)	+	<1 %	30 cm		

Gidley Island Site G132

Described by VLL **Date** 31/05/00

Location Gidley Island, towards N end, N-W side, coastalplateau below G130/131.

Air Photo **Photo** 25 **on Roll** F2? **Video** N **E Photo**

Photo Notes

AMG Zone 50 479820mE, 7738085mN

Habitat Low coastal plain/plateau beneath foredune and far rocky hill slopes. Broad area extending approx. 1-5 km inland to base of hill slopes. Parts of plateau are badly kapok infested (see photo 23).

Soil Fine white-grey sand.

Rock Type N/A

Vegetation Acacia bivenosa, Rhagodia preissii subsp. obovata shrubland to open heath over Scaevola anchusifolia, Threlkedia diffusa low open shrubland over Triodia epactia (Burrup form), Whiteochloa airoides hummock/tussock grassland.

Veg Condition Kapok infested - not heavily in sample but dense in other areas.

Fire Age**Notes****Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	30	25-33.3%	1.5-2 m		
	Aerva javanica	+	<1 %	35 cm		
	Amaranthus sp. (D111)	+	<1 %	40 cm	G132-6	
	Cleome viscosa	+	<1 %	40 cm		
	Eragrostis aff. eriopoda	+	<1 %	30 cm	G132-8	
	Euphorbia sp. (G133-2)	+	<1 %	20 cm	G132-2	
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	35 cm	G132-4	
	Goodenia microptera	+	<1 %	35 cm	G132-7	
	Heliotropium cunninghamii	+	<1 %		G132-10	dead
	Melhania sp. Fortescue (M33-22)	+	<1 %	35 cm	G132-1	
	Ptilotus exaltatus var. exaltatus	+	<1 %	35-45 cm		
	Rhagodia preissii subsp. obovata	10	5-10%	1 m		
	Scaevola anachusifolia	<3%	1-5%	35 cm	G132-9	
	Synaptantha tillaeacea var. tillaeacea	+	<1 %	3 cm	G132-11	
	Threlkeldia diffusa	<2%	1-5%	40 cm		
	Triodia epactia (Burrup Form)	40%	33.3-50%	30-50 cm	G132-5	
	Triraphis mollis	+	<1 %	35 cm	G132-3	
	Whiteochloa airoides	15	10-25%	50 cm		

Gidley Island Site G133**Described by** VLL **Date** 31/05/00**Location** Same beach as for 130-132.**Air Photo** **Photo** **on Roll** **Video** **N** **E Photo****Photo Notes****AMG Zone** 50 479745mE, 7738175mN 479796mE, 7738187mN**Habitat** Low, long, linear foredune approximately 30-50 m wide by 1-1.5 m high. Includes hinddune until obvious change in vegetation.**Soil** White fine beach sand.**Rock Type** N/A**Vegetation** Ipomoea costata scattered shrubs over Spinifex longifolius, Whiteochloa airoides, Eulalia aurea, Triodia epactia (Burrup form) hummock/tussock grassland to closed grassland.**Veg Condition** Excellent.**Fire Age** N/A**Notes** N-W facing long curved beach, foredune low approx 1-1.5 m.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia bivenosa	+	<1 %	1 m		
	Eulalia aurea	10	5-10%	35 cm		
	Euphorbia sp. (G133-2)	+	<1 %	25 cm	G133-2	
	Euphorbia tannensis subsp. eremophila (Burrup form)	+	<1 %	0.2 to 1 m	G133-5,3	
	Goodenia microptera	+	<1 %	35 cm	G133-4,1	2.{Recorded twice}
	Ipomoea costata	+	<1 %	90 cm		
	Salsola tragus	+	<1 %	40 cm		
	Scaevola crassifolia	+	<1 %	45-50 cm		
	Scaevola cunninghamii	+	<1 %	35 cm	G133-6	
	Spinifex longifolius	40%	33.3-50%	1 m		
	Triodia epactia (Burrup Form)	10	5-10%	35 cm	G133-7	

Whiteochloa airoides 20 10-25% 1 m G133-8 whiaer? Taken as.

Gidley Island Site G136

Described by ASW Date 31/05/00

Location

Air Photo Photo Y on Roll AS Video N E Photo

Photo Notes 14 (from Peg 1 towards Peg 2), 15, 16 (is over W side of Island).

AMG Zone 50 479874mE, 7736915mN 479941mE, 7736926mN 479902mE, 7736954mN 479920mE, 7736889mN

Habitat Rock saddle between two drainages, gentle slopes to N and S.

Soil Red, very clayey with gravel and aggregates.

Rock Type Some granite outcropping. Cobbles, gravel of very coarse grained rock with pink/red/grey interior. Cover ~80%, in places being pavement-like with little veg.

Vegetation Acacia orthocarpa low open shrubland over Triodia epactia (Burrup form), Themeda sp. Burrup (B84), Sorghum plumosum hummock/tussock grassland with Rhynchosia cf. minima very open lianes.

Veg Condition Excellent.

Fire Age

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia orthocarpa	5-10	5-10%	60 cm		orth/arida
	Alysicarpus muelleri	+/-1	<1 %	90 cm	G136-8	Aeschynomene-like
	Aristida holathera var. holathera	+	<1 %	30 cm	G136-9	
	Boerhavia coccinea	1	1-5%	30 cm		?bush?
	Bonamia media var. villosa	1	1-5%	20 cm	G136-5	
	Bulbostylis barbata	1	1-5%	2 cm	G136-2	minute sedge
	Corchorus walcottii	2	1-5%	30 cm	G136-1	usual,, thick leaf
	Crotalaria novae-hollandiae subsp.	1	1-5%	40 cm		
	Eriachne obtusa	2-5	1-5%		G136-11	
	Evolvulus alsinoides var. villosicalyx	+	<1 %	10 cm		=A132?-this is Vicki's
	Goodenia microptera	1-2	1-5%	50 cm	G136-6	hairy
	Heliotropium cunninghamii	+	<1 %	15 cm	G136-10	
	Hybanthus aurantiacus	2	1-5%	30 cm	G136-4	
	Indigofera trita	1	1-5%	40 cm	G136-7	teph tri? Perhaps
	Mollugo molluginis	1-2	1-5%	<10 cm		
	Mukia maderaspatana	+	<1 %	40 cm		
	Polycarpha longiflora (red form)	1	1-5%	30 cm		
	Pterocaulon sphacelatum	1	1-5%	50 cm		usual
	Ptilotus exaltatus var. exaltatus	+	<1 %	40 cm		
	Rhynchosia cf. minima	5	5-10%	40 cm		[presumed to be
	Sorghum plumosum	10	5-10%	90 cm		
	Tephrosia aff. supina (MET 12,357)	1	1-5%	20		mauve
	Themeda sp. Burrup (B84)	30	25-33.3%	54 cm		
	Trachymene aff. oleracea (B61)	1	1-5%	20 cm		
	Triodia epactia (Burrup Form)	30	25-33.3%	40 cm	G136-3	{Recorded twice}

Gidley Island Site G142

Described by MET Date 31/05/00

Location Near of centre of west coast of Gidley Island.

Air Photo Photo on Roll Video N E Photo 222, 3, 4

Photo Notes E photos; 223 - slope with Sorghum, 224 - Canavalia patch.

AMG Zone 50 481030mE, 7739344mN 481001mE, 7739382mN

- Habitat** Largr rockpile, faces bay +/- southerly.
- Soil**
- Rock Type** Medium grained grey, some white, volcanic/igneous.
- Vegetation** Pittosporum phylliraeoides var. phylliraeoides scattered low trees ove Flueggea virosa subsp. melanthesoides scattered tall shrubs over Rhagodia eremaea, Abutilon indicum var. australiense scattered shrubs over Triodia angusta (Burrup form), (Sorghum plumosum) very open hummock/tussock grassland with patches of Canavalia rosea lianes.
- Veg Condition** Excellent.
- Fire Age** >10 years.
- Notes** Sorghum half way up vegetation strip up face of rockpile (E photo 222). Valley between G142 and 143 has Sorghum plumosum and Triodia angusta (Burrup form). In places has Sarcostemma. Operculina aequisejala and Crotalaria novae-hollandae seen.
- Rock Pile Notes** Moderate to steep slope, southerly facing, boulders mostly large some medium, angular. Indigofera trita larger(?) common in vegetation patches. Large patches of Canavalia.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon indicum var. australiense	+	<1 %	1-1.8 m	G142-1	
	Alectryon oleifolius	+	<1 %	1.2 m		
	Boerhavia burbridgeana	+	<1 %	45 cm	G142-5	
	Canavalia rosea	+	<1 %	70 cm		
	Capparis spinosa var. nummularia	+	<1 %	1 m		
	Cleome viscosa	+	<1 %	70 cm		
	Enchylaena tomentosa	+	<1 %	70 cm		
	Euphorbia biconvexa	+	<1 %		G142-6	
	Euphorbia coghlanii	+	<1 %	30 cm	G142-7	
	Ficus opposita var. indecora	+	<1 %	2 m	G142-9	
	Ficus platypoda var. F	+	<1 %	40 cm	G142-11	in crevice
	Flueggea virosa subsp. melanthesoides	+	<1 %	1 m		
	Indigofera trita	+	<1 %	50 cm		
	Melhania sp. Fortescue (M33-22)	+	<1 %	45 cm	G142-8	
	Mukia maderaspatana	+	<1 %	1.8 m	G142-2	
	Paspalidium tabulatum (Burrup Form)	+	<1 %	30-90 cm		
	Phyllanthus ciccoides	+	<1 %	1 m		At lower edge only
	Pittosporum phylliraeoides var. phylliraeoides	+	<1 %	2.8		
	Pterocaulon sphacelatum	+	<1 %	40-90 cm		common
	Rhagodia eremaea	+	<1 %	1.5-2 m		
	Rhynchosia cf. minima	+	<1 %	60 cm	G142-4	grey
	Themeda sp. Burrup (B84)	+	<1 %	50-70 cm	G142-3	
	Threlkeldia diffusa	+	<1 %	50 cm	G142-10	
	Tinospora smilacina	+	<1 %	2.2 m		
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	0.5-1.4		dead
	Triodia angusta (Burrup Form)	<5%	1-5%	50-90 cm		

Gidley Island Site G143

- Described by** MET **Date** 31/05/00 **50 x 50 m**
- Location** Gidley Island, west side near centre.
- Air Photo** **Photo** 9 **on Roll** M1 **Video** N **E Photo**
- Photo Notes**
- AMG Zone** 50 481486mE, 7738873mN 481525mE, 7738849mN 481485mE, 7738813mN 481442mE, 7738850mN
- Habitat** West facing, moderately steep mid-upper slope. Some small areas of outcrop.
- Soil** Orange-brown loam, some grit, amongst cobbles. About 60% of surface cobbles, pebbles, some boulders.
- Rock Type** Medium grained, grey, volcanic/igneous.
- Vegetation** Themeda sp. Burrup (B84), Triodia epactia (Burrup form), Sorghum plumosum tussock/hummock grassland with Rhynchosia cf. minima very open lianes.

Veg Condition Excellent.

Fire Age >5 years, possibly >10 years.

Notes Sorghum may grow back from bases (some with dead bases) when rains close(?).
Had to cut recording short to meet boat, may have missed a few small species.
Ficus platypoda var. C ~300 m S of plot on rockpile. E-photos taken (No no.s)

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	30 cm	G143-6	
	Acacia orthocarpa	+	<1 %	60 cm	G143-11	only one plant
	Bonamia media var. villosa	+	<1 %	5 cm		
	Bulbostylis barbata	+	<1 %	3-5 cm		
	Corchorus walcottii	+	<1 %	25 cm	G143-14	
	Crotalaria novae-hollandiae subsp.	+	<1 %	15 cm		
	Eriachne obtusa	+	<1 %	50 cm	G143-13	
	Gomphrena cunninghamii	+	<1 %	10-15 cm	G143-5	
	Goodenia microptera	+	<1 %	25 cm	G143-9	
	Hybanthus aurantiacus	+	<1 %	25 cm		
	Indigofera linifolia	+	<1 %	45 cm	G143-10	
	Mollugo molluginis	+	<1 %	20 cm		=D86
	Mukia maderaspatana	+	<1 %	30 cm	G143-7	
	Polycarpaea longiflora (red form)	+	<1 %	35 cm	G143-8	
	Portulaca oleracea	+	<1 %	15 cm		
	Pterocaulon sphacelatum	+	<1 %	15-50 cm		
	Rhynchosia cf. minima	5-10	5-10%	30 cm	G143-12	grey
	Sorghum plumosum	+/-10	5-10%	40-60 cm	G143-3	+heads
	Tephrosia aff. supina (HD133-20)	+	<1 %	5-15 cm	G143-4	
	Themeda sp. Burrup (B84)	>40	33.3-50%	30-50 cm	G143-2,1A	{Recorded twice}
	Triodia epactia (Burrup Form)	+/-15	10-25%	25-45 cm	G143-1	

Hamersley Iron Rail Line quadrats

Hamersley Iron Site HR201

Described by VLL **Date** 5/06/00

Location Hamersley Iron Access Tracks - where water pipe crosses beneath road near km 56 HI rail marker.

Air Photo **Photo** Y **on Roll** **Video** N **E Photo**

Photo Notes 12, 13 of rockpiles and Arthur's site, 14 site.

AMG Zone 50 495710mE, 7670306mN

Habitat

Soil Red-brown sandy.

Rock Type Block type dark brown-red, medium to fine grained, weathered coarse on outside.

Vegetation Terminalia canescens scattered low trees over Acacia coriacea subsp. coriacea, Clerodendrum tomentosum high open shrubland over Ptilotus obovatus var. obovatus scattered low shrubs over Paspalidium tabulatum (Whim Creek form), (Aristida nitidula, Triodia epactia) scattered tussock/hummock grasses.

Veg Condition *Cenchrus ciliaris and *Kapok present.

Fire Age

Notes Total of 3 Terminalia canescens in plot (2 rockpiles).
Photos: 12-14.

Rock Pile Notes Rockpiles are scattered over landscape (see photo 13).

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia ancistrocarpa	< 2	1-5%	1 m		
	Acacia coriacea subsp. coriacea	2	1-5%	1.5 m	HR201-2	
	Amaranthus pallidiflorus	+	<1 %	30 cm		
	Aristida nitidula	+	<1 %			As for other HD sites
	Boerhavia gardneri	+	<1 %		HR201-3	
	Brachychiton acuminatus	+	<1 %			2 of
	Capparis spinosa var. nummularia	+	<1 %	25 cm		
	Cenchrus ciliaris	+	<1 %			
	Cleome viscosa	+	<1 %	30 cm		
	Clerodendrum tomentosum	2	1-5%	1.5-2 m		
	Cymbopogon ambiguus	+	<1 %		HR201-5	
	Eremophila longifolia	+	<1 %	1 m		
	Jasminum didymum subsp. lineare	+	<1 %	35 cm		
	Mukia maderaspatana	+	<1 %			Vine
	Paspalidium tabulatum (Whim Creek form)	2	1-5%	35 cm		
	Ptilotus obovatus var. obovatus	2	1-5%	45 cm		
	Rhagodia eremaea	+	<1 %	1.25 m		
	Scaevola spinescens (narrow form)	+	<1 %	1 m		Bright green glabrous
	Terminalia canescens	2	1-5%	3 m		
	Terminalia supranitifolia	+ 2	1-5%		HR201-1	Only one on this
	Tinospora smilacina	+	<1 %			Vine
	Trichosanthes cucumerina	+	<1 %			Vine
	Triodia angusta	+	<1 %			Base only.
	Triodia epactia	+	<1 %	40 cm		
	Triumfetta maconochieana	+	<1 %	1 m	HR201-4	Base.

Hamersley Iron Site HR202

Described by VLL **Date** 5/06/00

Location Hamersley Iron Railway Track, east side of railway line, near 61 km peg.

Air Photo **Photo** Y **on Roll** F4 **Video** N **E Photo**

Photo Notes Photo 15, 16.

AMG Zone 50 499037mE, 7667572mN

- Habitat** Rockpile high pyramid shaped (cone-shaped).
Soil Red-brown silty loam.
Rock Type Medium blocks of fine to medium grained, grey inside, weathering rough sandpaper like dark brown-red on outside.
Vegetation Terminalia supranatifolia, Ehretia saligna var. saligna, Acacia coriacea subsp. coriacea scattered low trees to low open woodland over Dichrostachys spicata scattered shrubs over Melhania sp. Burrup, Scaevola spinescens (narrow form) scattered low shrubs over Paspalidium tabulatum, *Cenchrus ciliaris scattered tussock grasses.
Veg Condition *Cenchrus ciliaris and *Kapok both present, otherwise very good.
Fire Age Within past 24 months to base of slope.
Notes Fire age cont: and in some lower pockets.

Terminalia supranatifolia on darker rock, one Terminalia supranatifolia at base of rockpile has been scarred by fire. 10 individuals on slope.

Rock Pile Notes All rockpile sampled radiating from top of Peg 1 (top of highest point) to base.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %	30 cm	HR202-3	
	Acacia coriacea subsp. coriacea	<2%	1-5%	2 m		
	Acacia inaequilatera	+	<1 %	1 m		
	Acacia tumida	+	<1 %	2 m	HR202-2	?tumida/colei group
	Aerva javanica	+	<1 %	45 cm		
	Amaranthus pallidiflorus	+	<1 %	40 cm		
	Aristida nitidula	+	<1 %	50-60 cm		As at HD.
	Brachychiton acuminatus	+	<1 %			Three only
	Cenchrus ciliaris	+	<1 %	40 cm		
	Cleome viscosa	+	<1 %	40 cm		
	Clerodendrum tomentosum	+	<1 %	1.5 m		
	Commicarpus australis	+	<1 %			Vine
	Corchorus aff. sidoides (HD179-5)	+	<1 %	40 cm	HR202-5	Lower -fire.
	Corchorus laniflorus	+	<1 %	35 cm	HR202-1	Broad leaf.
	Dichrostachys spicata	2-3%	1-5%	1.75 m		
	Ehretia saligna var. saligna	2-3%	1-5%	1.75 m		East slope
	Eremophila longifolia	+	<1 %	45 cm		Burnt area
	Euphorbia sp. (site 1163)	+	<1 %	20 cm	HR202-7	
	Flueggea virosa subsp. melanthesoides	+	<1 %	1.5 m		
	Gomphrena cunninghamii	+	<1 %	20 cm		
	Melhania sp. Burrup	+	<1 %	30 cm	HR202-6	Lower - fire.
	Mukia maderaspatana	+	<1 %		HR202-8	Vine
	Paspalidium tabulatum (Whim Creek form)	+	<1 %	40 cm		Rockpile and base.
	Paspalidium tabulatum (Whim Creek form)	+	<1 %	50 cm		
	Ptilotus obovatus var. obovatus	+	<1 %	45 cm		
	Rhagodia eremaea	+	<1 %	1 m		
	Rhynchosia cf. minima	+	<1 %		HR202-4	[presumed to be
	Scaevola spinescens (narrow form)	+	<1 %	1.5 m		Glabrous, bright green
	Solanum diversiflorum	+	<1 %	30 cm		Lower slope - fire.
	Solanum horridum	+	<1 %		HR202-3	Collection number used
	Terminalia supranatifolia	<2%	1-5%	2 m		
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	60 cm		
	Trichosanthes cucumerina	+	<1 %			Vine

Hamersley Iron Site HR203

Described by VLL **Date** 5/06/00

Location Hamersley Iron Railway, near 61 km peg, east side HI railway.

Air Photo HI Access **Photo** **on Roll** **Video** N E **Photo**

Photo Notes

AMG Zone 50 498897mE, 7667809mN

Habitat South facing rocky slope, rocks as per sample HR202, north facing slope noted in notes, but intensively sampled.

Soil

Rock Type As for HR202.

Vegetation Brachychiton acuminatus scattered low trees over Clerodendrum tomentosum, Acacia coriacea subsp. coriacea, Terminalia supranatifolia open shrubland over Rhagodia eremaea, Scaevola spinescens (narrow form) low open shrubland over Aristida nitidula, Paspalidium tabulatum, *Cenchrus ciliaris very open tussock grassland.

Veg Condition Excellent, occasional *Cenchrus ciliaris.

Fire Age See notes.

Notes Terminalia supranatifolia growing not only on bare rock outcrop and rocks, but also on Triodia slope. Tree itself on very small rockpiles no more than 1 x 1 m/2 x 1 m. Slope with Triodia does not appear to be burnt, well developed Triodia epactia and T. wiseana, no charcoal evident, no Corchorus etc (does occur where plain below is burnt). 3 individuals on rockpile, 8 on slope.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon fraseri	+	<1 %			As at 202.
	Abutilon lepidum	+	<1 %	45 cm		
	Acacia coriacea subsp. coriacea	3-5%	1-5%	1.5 m		
	Aristida nitidula	2-3%	1-5%	45 cm		As at HD
	Brachychiton acuminatus	<2	1-5%	3.5 m		3 only
	Cassia glutinosa	+	<1 %	1 m		
	Cenchrus ciliaris	<2	1-5%	30-45 cm		{Recorded twice}
	Clerodendrum tomentosum	<2	1-5%	2 m		
	Eremophila longifolia	+	<1 %	1 m		?Grecan, no name
	Jasminum didymum subsp. lineare	+	<1 %			Vine
	Mukia maderaspatana	+	<1 %			Vine
	Paspalidium tabulatum (Whim Creek form)	2-3%	1-5%	35 cm		
	Ptilotus obovatus var. obovatus	+	<1 %	45 cm		
	Rhagodia eremaea	3-5%	1-5%	1 m		
	Rhynchosia cf. minima	+	<1 %			Vine; grey green.
	Scaevola spinescens (narrow form)	3-5%	1-5%	1 m		Glabrous green
	Solanum lasiophyllum	+	<1 %	35 cm		
	Streptoglossa decurrens	+	<1 %	30 cm		
	Terminalia supranatifolia	<2	1-5%	1 m		On rocky slope
	Tinospora smilacina	+	<1 %			Vine
	Trichosanthes cucumerina	+	<1 %			Vine
	Triodia epactia	+	<1 %	30-35 cm		

Harding Dam quadrats

Harding Dam Site HD177

Described by ASW **Date** 4/06/00

Location ~ 50 m south of Harding Dam carpark.

Air Photo **Photo** Y **on Roll** AS **Video** N **E Photo**

Photo Notes 00, from carpark; 0, ESE from summit.

AMG Zone 50 510771mE, 7679816mN 510704mE, 7679854mN

Habitat Moderately steep boulderly slopes of rockpile.

Soil (1) Brown silty clay associated with calcrete (2) Red brown sandy clay grading to clay downslope associated with outcrop.

Rock Type Very fine grained dark blue-grey stones, angular to subangular, weathered red-brown, calcrete present on summit. Patch of paler rock outcropping southeast side medium fine grain, platy, angular, some rounding. Coarse gravel and cobbles in veg patches.

Vegetation Inadequate data recorded for a vegetation description to be compiled.

Veg Condition Poor to good, weeds especially *Cenchrus ciliaris* and *Aerva javanica* prominent.

Fire Age N/A

Notes The plot is near the conical part of the ridge behind the line between the pegs down to about 6 m lower and down to dam on SW side, but excluding lower edge next to line.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<1 %		3.5 m		Broad phyllodes, erect
	<i>Aerva javanica</i>	<1 %		50 cm		
	<i>Amaranthus pallidiflorus</i>	<1 %		40 cm		
	<i>Aristida nitidula</i>	<1 %		60 cm		short awns
	<i>Boerhavia coccinea</i> (form B)	<1 %		20 cm	HD177-1	
	<i>Cenchrus ciliaris</i>	<1 %		50 cm		
	<i>Cleome viscosa</i>	<1 %		40 cm		
	<i>Commicarpus australis</i>	<1 %		1.2 m		
	<i>Cymbopogon ambiguus</i>	<1 %		50 cm		
	<i>Dichrostachys spicata</i>	<1 %		1.2 m		
	<i>Ehretia saligna</i> var. <i>saligna</i>	<1 %		3.5 m		
	<i>Eragrostis dielsii</i>	<1 %		5 cm	HD177-2	
	<i>Eremophila longifolia</i>	<1 %		2 m		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	<1 %		3 m		
	<i>Ipomoea costata</i>	<1 %		2 m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	<1 %		1.2 m		
	<i>Mukia maderaspatana</i>	<1 %		20 cm		Medium leaf
	<i>Paspalidium tabulatum</i> (Whim Creek form)	<1 %		50 cm		
	<i>Pentalepis trichodesmoides</i>	<1 %		40 cm		
	<i>Pterocaulon sphacelatum</i>	<1 %		60 cm		Usual
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	<1 %		70 cm		
	<i>Rhagodia eremaea</i>	<1 %		70 cm		
	<i>Scaevola spinescens</i> (narrow form)	<1 %		1.8 m		
	<i>Solanum horridum</i>	<1 %		20 cm		
	<i>Tinospora smilacina</i>	<1 %		1 m		
	<i>Triodia wiseana</i>	<1 %		40 cm		

Harding Dam Site HD178

Described by ASW **Date** 4/06/00

Location Base of rockpile next to HD177 rockpile, and above lake. The two rockpiles are separated by a rocky gully.

Air Photo **Photo** 0,1 **on Roll** AS **Video** N **E Photo**

Photo Notes**AMG Zone** 50**Habitat** Gently sloping pocket on lower steep slope of large rockpile.**Soil** No sample**Rock Type** No sample**Vegetation** [Inadequate data recorded for a vegetation description to be compiled.]**Veg Condition** Good, **Aerva javanica* a prominent weed.**Fire Age** N/A**Notes****Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<1 %		4.5 m	Leaves broad, erect
	<i>Aerva javanica</i>	<1 %		1 m	
	<i>Aristida nitidula</i>	<1 %		50 cm	=HD177
	<i>Commicarpus australis</i>	<1 %		1 m	
	<i>Cymbopogon ambiguus</i>	<1 %		60 cm	
	<i>Dichrostachys spicata</i>	<1 %		3.5 m	
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	4 m	
	<i>Ipomoea costata</i>	<1 %		2.5 m	
	<i>Mukia maderaspatana</i>	<1 %		18 cm	large leaves
	<i>Paspalidium tabulatum</i> (Whim Creek form)	<1 %		40 cm	
	<i>Pentalepis trichodesmoides</i>	<1 %		70 cm	
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	<1 %		80 cm	large leaves
	<i>Rhagodia eremaea</i>	<1 %		1.5 m	
	<i>Scaevola spinescens</i> (narrow form)	<1 %		1.8 m	
	<i>Solanum horridum</i>	<1 %		30 cm	
	<i>Tinospora smilacina</i>	+	<1 %	2.5 m	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	30 cm	
	<i>Trichosanthes cucumerina</i>	<1 %		2 m	
	<i>Triodia angusta</i>	<1 %		60 cm	
	<i>Triumfetta maconochieana</i>	+	<1 %	1.3 m	HD178-1

Harding Dam Site HD179**Described by** ASW **Date** 4/06/00**Location** Tabletop Mountain, just NE of microwave tower.**Air Photo** **Photo** 1 **on Roll** AS **Video** N **E Photo****Photo Notes****AMG Zone** 50 510372mE, 7673930mN 510398mE, 7673874mN**Habitat** Rocky stony plateau sloping gently to SSE.**Soil** Red-brown clay, cracking on surface.**Rock Type** Cobbles of red weathered rock with fine grain. Dark blue-grey (almost green in parts), cover ~90% of surface.**Vegetation** *Cassia glutinosa* scattered shrubs over *Cullen leucochaites*, *Ipomoea costata* low scattered shrubs over *Triodia wiseana*, *Cymbopogon ambiguus* hummock/tussock grassland with *Vigna lanceolata* var. *latifolia*, *Rhynchosia* sp. Chichester (MET 15,225) open lianes.**Veg Condition** Very good.**Fire Age** 95-97?**Notes****Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Bonamia media</i> var. <i>villosa</i>	+	<1 %	10 cm	HD179-12
	<i>Cassia glutinosa</i>	<1	<1 %	1.5 m	

Corchorus aff. sidoides (HD179-5)	+	<1 %	20 cm	HD179-5	
Cullen leucochaites	1-2	1-5%	50 cm	HD179-6	Hairy
Cymbopogon ambiguus	5	5-10%	30 cm	HD179-10	Tussock grass
Dichanthium sericeum subsp. humilius	1	1-5%	15 cm	HD179-1	
Gomphrena cunninghamii	+	<1 %	15 cm		
Hibiscus aff. platyklamys (MET 15,067)	+	<1 %	20 cm	HD179-7	
Ipomoea costata	+/- 1	<1 %	40 cm		
Iseilema vaginiflorum	+/- 1	<1 %	15 cm	HD179-13	
Oldenlandia crouchiana	+	<1 %	30 cm	HD179-4	
Polygala sp. (M23-2)	+	<1 %	< 5 cm	HD179-11	
Rhynchosia sp. Chichester (MET 15,225)	5-10	5-10%	50 cm	HD179-8	Small
Streptoglossa decurrens	+	<1 %	20 cm	HD179-9	
Trachymene aff. oleracea (B61)	1	1-5%	50 cm	HD179-3	
Trichodesma zeylanicum var. zeylanicum	+	<1 %	50 cm		
Triodia wiseana	40	33.3-50%	50 cm		
Vigna lanceolata var. latifolia	15	10-25%	50 cm		Broad

Harding Dam Site HD180

Described by ASW **Date** 4/06/00

Location ~ 2 km SW of Cooyapooya homestead next to track to top of Tabletop Mountain, slope facing SE.

Air Photo **Photo** 3,4 **on Roll** AS **Video** N **E Photo**

Photo Notes

AMG Zone 50 512095mE, 7673320mN 512145mE, 7673314mN

Habitat Steep north facing slope of small-medium boulders and isolated figs, and small pockets of vegetation.

Soil Where present, a shallow loose mix of weathered rock and organic matter. No soil to speak of.

Rock Type (1) Fine grained grey-blue rock, angular, covers most of slope (2) Very fine grained (hydrosilicate?) on slope, paler weathered, smoother, often rounded. Darker grey outcrops further upslope.

Vegetation Inadequate data recorded for a vegetation description to be compiled.

Veg Condition Very good to good, some Aerva javanica.

Fire Age N/A

Notes The figs are often (usually?) solitary or few without associated or other species.
Iseilema sp. Excluded on bare rocky top. Fimbristylis sp. Excluded on bare rocky top. Polycarphaa holtzei Excluded on bare rocky top

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea		<1 %	2.5 m		Some leaflets broad,
	Acacia pyrifolia (green)	+	<1 %	50 cm		Green
	Aerva javanica	+/- 1	<1 %	70 cm		
	Aristida nitidula		<1 %	60 cm		Usual
	Cleome viscosa		<1 %	50 cm		
	Commicarpus australis		<1 %	50 cm		
	Corchorus sidoides	+	<1 %	90 cm	HD180-7	Narrow pale leaf
	Cymbopogon ambiguus		<1 %	50 cm		
	Dichrostachys spicata		<1 %	3.5 m		
	Ehretia saligna var. saligna		<1 %	> 5.5 m		
	Enneapogon caerulescens var. occidentalis		<1 %	20 cm	HD180-3	
	Ficus platypoda		<1 %	3 m		3 m tall by 10 m broad
	Ipomoea costata		<1 %	2.5 m		
	Jasminum didymum subsp. lineare	+	<1 %	60 cm		
	Melhania sp. Burrup		<1 %	60 cm	HD180-1	Yellow flowers
	Nicotiana benthamiana	> +	<1 %	> 1 m	HD180-2	Variable.

Oldenlandia sp. Mt Montagu (MET 15,027)		<1 %		HD(T)180
Paspalidium tabulatum (Whim Creek form)		<1 %	50 cm	
Polycarpha holtzei		<1 %		Excluded on bare rocky
Pterocaulon sphacelatum		<1 %	70 cm	Usual
Ptilotus obovatus var. obovatus		<1 %	50 cm	HD180-4 Broad
Rhagodia eremaea		<1 %	70 cm	
Rhynchosia sp. Chichester (MET 15,225)	+	<1 %	50 cm	HD180-6
Solanum horridum		<1 %	20 cm	
Solanum phlomoides		<1 %	50 cm	HD180-5
Tinospora smilacina		<1 %	2 m	
Trichodesma zeylanicum var. zeylanicum		<1 %	30 cm	
Triumfetta maconochieana		<1 %	60 cm	=HD178

Harding Dam Site HD188

Described by VLL **Date** 4/06/00

Location Harding Dam - rockpiles southwest of the dam, ~500 m from carpark.

Air Photo **Photo** **on Roll** **Video** **N** **E Photo**

Photo Notes ASW has photo of this site.

AMG Zone 50 510955mE, 7679788mN 510997mE, 7679756mN

Habitat Rockpiles (including Triodia pockets) southwest of dam, northwest facing slope, medium sized blocky boulders. See notes.

Soil

Rock Type Coarse-grained pink-brown rock with black oxidization on surface.

Vegetation Ipomoea costata, Dichrostachys spicata, Eremophila longifolia open shrubland over Scaevola spinescens (narrow form), Rhagodia eremaea low open shrubland over Triodia angusta, Aristida nitidula very open hummock grassland.

Veg Condition

Fire Age N/A

Notes Small pockets of soil have vegetation amongst the rockpiles, these were sampled but Triodia "corridors" ie, larger tracts of Triodia, were not.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Aristida nitidula	<2	1-5%	40 cm	HD188-6	
	Cenchrus ciliaris	+	<1 %	30 cm		
	Cleome viscosa	+	<1 %	40 cm		
	Commicarpus australis	+	<1 %	1 m	HD188-12	Vine.
	Corchorus aff. sidoides (HD179-5)	+	<1 %	45 cm	HD188-17	(?) Base of rockpile
	Cymbopogon ambiguus	+	<1 %	60 cm	HD188-19	
	Cyperus hesperius	+	<1 %	45 cm	HD188-18	
	Dichrostachys spicata	1-2%	1-5%	1.75 m		
	Eremophila longifolia	2-3	1-5%	60-1.75 m	HD188-8,2	Silver-green linear
	Ipomoea costata	2-3%	1-5%	1.75 m		
	Jasminum didymum subsp. lineare	+	<1 %	25 cm	HD188-3	Woody grazed plant
	Leptopus decaisnei var. decaisnei	+	<1 %	35 cm	HD188-2	
	Mukia maderaspatana	+	<1 %	80 cm	HD188-14	Sprawling
	Myoporum montanum	+	<1 %	1 m	HD188-10	
	Paspalidium tabulatum (Whim Creek form)	+	<1 %	3 cm	HD188-5	Grazed
	Pterocaulon sphacelatum	+	<1 %	25 cm	HD188-4	
	Ptilotus obovatus var. obovatus	+	<1 %	45 cm	HD188-11	
	Rhagodia eremaea	2-3%	1-5%	1 m	HD188-15	
	Scaevola spinescens (narrow form)	1-2%	1-5%	1 m	HD188-9	
	Solanum horridum	+	<1 %	40 cm	HD188-16	
	Triodia angusta	<2%	1-5%	40 cm	HD188-13	
	Triumfetta maconochieana	+	<1 %	40 cm	HD188-7	
	Vigna sp. Harding Dam (HD189-12)	+	<1 %		HD188-1	Spreading slender vine.

Harding Dam Site HD189**Described by** VLL **Date** 4/06/00**Location** Near top of Tabletop Mountain, approx. 700 m S of Arthur's top plot.**Air Photo** **Photo** 5 **on Roll** F4 **Video** N **E Photo****Photo Notes****AMG Zone** 50 510864mE, 7673970mN**Habitat** Very, very gently sloping upper hill slope, top of meza. Facing southwest high and exposed strong winds. No protection surrounding rockpiles.**Soil** Very fine red loam with dense stony mantle.**Rock Type** Small stones, 5-15 cm diameter.**Vegetation** Ipomoea costata scattered shrubs over Triodia wiseana hummock grassland with Vigna sp. Harding Dam (HD189-12) very open lianes.**Veg Condition** Excellent, no weeds.**Fire Age** N/A**Notes** Very exposed slope, no wind protection, no surrounding rockpiles, near top of mountain.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia pyrifolia (green)	+	<1 %	80 cm	HD189-4	Glabrous + green
	Bonamia media var. villosa	+	<1 %	8-20 cm	HD189-11	HD189-10,
	Corchorus aff. sidoides (HD179-5)	+	<1 %	3 cm	HD189-14	
	Dichanthium sericeum subsp. humilium	+	<1 %	15 cm	HD189-6	
	Dysphania rhadinostachya subsp. rhadinostachya	+	<1 %	10 cm	HD189-7	
	Fimbristylis sp.	+	<1 %	15 cm		Dead
	Ipomoea costata	<2	1-5%	1 m		
	Iseilema dolichotrichum	+	<1 %	3 cm	HD189-5	
	Jasminum didymum subsp. lineare	+	<1 %	80 cm	HD189-3	Near rocks.
	Oldenlandia crouchiana	+	<1 %	25 cm	HD189-2	Heydolis?
	Polygala sp. (M23-2)	+	<1 %	2 cm	HD189-8	Polygala ?ins, no name.
	Pterocaulon sphacelatum	+	<1 %	25 cm		
	Pterocaulon sphaeranthoides	+	<1 %	20 cm		
	Ptilotus calostachyus var. calostachyus	+	<1 %		VLL-34	Just outside plot
	Rhynchosia sp. Chichester (MET 15,225)	+	<1 %		HD189-15	Scrambling with
	Sida sp. (site 1447)	+	<1 %	15 cm	HD189-9	
	Solanum horridum	+	<1 %	30 cm	HD189-13	
	Trachymene aff. oleracea (B61)	+	<1 %	15-40 cm	HD189-1	
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	40 cm		
	Triodia wiseana	40-50%	33.3-50%	30-40 cm		
	Vigna sp. Harding Dam (HD189-12)	10	5-10%		HD189-12	

Harding Dam Site HD190**Described by** VLL **Date** 4/06/00**Location** Steep slopes up Table Mountain ~1/3 way up.**Air Photo** **Photo** 6&8 **on Roll** F4 **Video** N **E Photo****Photo Notes****AMG Zone** 50 512211mE, 7673326mN 512259mE, 7673351mN**Habitat** Very very steep vertical sandstone like scree slope, westward facing.**Soil** Yellow-brown sandy loam**Rock Type** Yellow-brown sandstone? Fine grey soft, turns to shale (ie, soft rock).**Vegetation** Terminalia canescens low woodland over Dichrostachys spicata, Cassia glutinosa scattered shrubs over Melhania sp Burrup, Triumphetta maconochieana low scattered shrubs over Triodia wiseana scattered hummock grasses.

Veg Condition No weeds.

Fire Age N/A

Notes Vegetation in small soil pockets.
Scattered *Triodia wiseana* in pockets

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	1.5 m	HD190-4	
	<i>Amaranthus pallidiflorus</i>	+	<1 %	30 cm		
	<i>Aristida nitidula</i>	+	<1 %	45 cm	HD190-16	
	<i>Cassia glutinosa</i>	< 2	1-5%	1 m	HD190-3	
	<i>Cleome viscosa</i>	+	<1 %			
	<i>Cymbopogon ambiguus</i>	+	<1 %	50 cm	HD190-8	
	<i>Dichrostachys spicata</i>	<2%	1-5%	1 m		
	<i>Enneapogon caerulescens</i> var. <i>occidentalis</i>	+	<1 %	25 cm	HD190-2	ENNCAR?
	<i>Euphorbia</i> sp. (site 1163)	+	<1 %	20 cm	HD190-5	
	<i>Gossypium australe</i> (Whim Creek form)	+	<1 %		HD190-A	Along road ~150 m
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	40 cm	HD190-11	
	<i>Ipomoea costata</i>	+	<1 %	35 cm		
	<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	25 cm	HD190-7	
	<i>Melhania</i> sp. Burrup	< 2	1-5%		HD190-21	
	<i>Mukia maderaspatana</i>	+	<1 %		HD190-17	Vine
	<i>Paspalidium tabulatum</i> (Whim Creek form)	+	<1 %	40 cm	HD190-15	
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm	HD190-9,1	
	<i>Pterocaulon sphaeranthoides</i>	+	<1 %	20 cm		
	<i>Rhagodia eremaea</i>	+	<1 %	1 m	HD190-14	
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	50 cm	HD190-12	
	<i>Solanum gabriellae</i>	+	<1 %	35 cm	HD190-10	
	<i>Solanum horridum</i>	+	<1 %	25 cm	HD190-6	
	<i>Terminalia canescens</i>	10-15%	10-25%			
	<i>Tinospora smilacina</i>	+	<1 %			Vine
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	< 2	1-5%		HD190-20	
	<i>Triodia wiseana</i>	< 2	1-5%			In pockets.
	<i>Triumfetta maconochieana</i>	< 2	1-5%		HD190-18	

Harding Dam Site HD191

Described by VLL **Date** 4/06/00

Location Dark rocky slopes southwest of Harding Dam.

Air Photo **Photo** 8,9 **on Roll** F4 **Video** N **E Photo**

Photo Notes

AMG Zone 50 510387mE, 7666105mN 510373mE, 7666059mN

Habitat East facing mid-level and higher rockpile slopes above *Triodia* line. Fine grained dark grey-brown rocks with coarse outer coating (sand-paper like), but largish pockets 2x3 m of soil + *Triodia* + taller woodland.

Soil Skeletal fine dark clay loam.

Rock Type Dark brown-grey blocky rocks, very fine grained on inside but with dark sandpaper-like texture on outside.

Vegetation *Terminalia canescens* low open woodland over *Rhagodia eremaea*, *Cassia oligophylla* open shrubland over *Triodia wiseana*, *Paspalidium tabulatum* (Whim Creek form) very open hummock/tussock grassland.

Veg Condition N/A

Fire Age Fire on lower slopes within past 12 months,

Notes Fire age cont: sampled area appears above fire - no burnt vegetation evident.
Very little soil, very few species, slope faces east.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %		HD191-6	
	Cassia oligophylla	<3%	1-5%	1.5 m	HD191-2	Tall large shrubs.
	Cleome viscosa	+	<1 %	45 cm		
	Clerodendrum tomentosum	+	<1 %	1.5 m	HD191-4	
	Ehretia saligna var. saligna	+	<1 %	2 m		
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	2 m	HD191-5	
	Mukia maderaspatana	+	<1 %		HD191-3	
	Paspalidium tabulatum (Whim Creek form)	<3%	1-5%	40 cm		
	Ptilotus obovatus var. obovatus	+	<1 %	40 cm	HD191-8	
	Rhagodia eremaea	<3%	1-5%	1 m	HD191-7	
	Solanum gabrielae	+	<1 %	40 cm	HD191-1	As for HD190.
	Terminalia canescens	<5%	1-5%	2-3 m		
	Triodia wiseana	<5%	1-5%	30-40 cm		

Harding Dam Site HD200**Described by** VLL **Date** 4/06/00**Location** Dark rocky slopes southwest of Harding Dam.**Air Photo** **Photo** 10 **on Roll** F4 **Video** N **E Photo****Photo Notes****AMG Zone** 50 510279mE, 7666005mN**Habitat** South facing mid-level rocky slopes.**Soil** Skeletal fine.**Rock Type** Medium sized blocky dark brown rocks, fine grained inside with sandpaper texture.**Vegetation** Grevillea pyramidalis subsp. pyramidalis, Flueggea virosa subsp. melanthesoides (Acacia coriacea subsp. coriacea) high open shrubland over Scaevola spinescens (narrow form), Rhagodia eremaea, Ptilotus obovatus var. obovatus low open shrubland over Triodia angusta, Paspalidium tabulatum (Whim Creek form) scattered hummock/tussock grasses.**Veg Condition** Excellent, above fire line.**Fire Age** No fire in sample.**Notes** Small pockets of vegetation are isolated and far apart - ie, 25-35 m apart or more, therefore several pockets sampled.**Rock Pile Notes** See HD 191.**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %	2 m		
	Cassia glutinosa	+	<1 %	1 m		
	Cassia oligophylla	+	<1 %	1 m		
	Cymbopogon ambiguus	+	<1 %	60 cm	HD200-1	
	Flueggea virosa subsp. melanthesoides	<2%	1-5%	2 m	HD200-4	
	Grevillea pyramidalis subsp. pyramidalis	1	1-5%	to 4 m		Large trees.
	Ipomoea costata	+	<1 %	1.5 m		
	Mukia maderaspatana	+	<1 %		HD200-2	
	Paspalidium tabulatum (Whim Creek form)	1%	1-5%	40 cm		{Recorded twice}
	Pentalepis trichodesmoides	+	<1 %	40 cm		
	Pterocaulon sphaeranthoides	+	<1 %	30 cm		
	Ptilotus obovatus var. obovatus	<2%	1-5%	80 cm		
	Rhagodia eremaea	<2%	1-5%	1 m		As for 191.
	Scaevola spinescens (narrow form)	1%	1-5%	1 m	HD200-5	
	Solanum gabrielae	+	<1 %	40 cm	HD200-3	
	Solanum horridum	+	<1 %	35 cm	HD200-6	
	Tinospora smilacina	+	<1 %			Vine.
	Triodia angusta	1%	1-5%			
	Triumfetta maconochieana	+	<1 %	20 cm	HD200-7	

Harding Dam Site HD206**Described by** ASW **Date** 4/06/00**Location** Steep scree slope, almost adjacent to Pannawonica railway, and northwest of it.**Air Photo** **Photo** Y **on Roll** AS **Video** N **E Photo****Photo Notes** 6; 5,7, HD200; 8, vegetation on top burnt 1998-9??**AMG Zone** 50 510556mE, 7666803mN 510529mE, 7666839mN**Habitat** Narrow vertical strip of vegetation above *Acacia coriacea* (subsp. *coriacea*) on steep SE slope of boulders, less than 50 cm diameter.**Soil** Dark red-brown clay, calcrete soil silty brown clay, ~5% of soil.**Rock Type** Fine grained grey, weathered dark or light, some calcrete present, and cobbles of fine grained rock in veg patches.**Vegetation** Inadequate detail recorded for a vegetation description to be compiled.**Veg Condition** Very good - although **Aerva javanica* and **Cenchrus ciliaris* present in some vegetation pockets.**Fire Age** Not burnt recently**Notes** Vegetation seems associated with lighter rock.
Most of surrounding vegetation burnt in 1998/99?**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	3.5 m		
	<i>Aerva javanica</i>	+	<1 %	60 cm		
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	10 cm		
	<i>Cenchrus ciliaris</i>	+	<1 %	40 cm		
	<i>Cleome viscosa</i>	+	<1 %	30 cm		
	<i>Clerodendrum tomentosum</i>	+	<1 %	2.5 m		
	<i>Cymbopogon ambiguus</i>	+	<1 %	50 cm		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	1.5 m		Nearby, < 10 m away.
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	+	<1 %	1.5 m	HD206-1	
	<i>Ipomoea costata</i>	+	<1 %	1.5 m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1.8 m		
	<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	50 cm	HD206-3	
	<i>Mukia maderaspatana</i>	+	<1 %	1 m		
	<i>Paspalidium tabulatum</i> (Whim Creek form)	+	<1 %	30 cm		
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	60 cm		
	<i>Rhagodia eremaea</i>	+	<1 %	1.5 m		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	2 m		
	<i>Solanum horridum</i>	+	<1 %	10 cm		
	<i>Solanum phlomoides</i>	+	<1 %	50+ cm		Equals HD
	<i>Sporobolus australasicus</i>	+	<1 %	20 cm	HD206-2	Eng. Or austral.
	<i>Terminalia canescens</i>	+	<1 %	> 4 m		
	<i>Tinospora smilacina</i>	+	<1 %	2 m		
	<i>Trichosanthes cucumerina</i>	+	<1 %	2 m		
	<i>Triodia wiseana</i>	+	<1 %	30 cm		

Harding Dam Site HD207**Described by** ASW **Date** 5/07/00**Location****Air Photo** **Photo** 9 **on Roll** AS **Video** N **E Photo****Photo Notes** 9 and 10 are of Vicki's HR plot.**AMG Zone** 50 495796mE, 7670501mN**Habitat** Moderately steep to gentle bouldery slopes on rockpile.

Soil Where present, thin brown/red silty loam.
Rock Type Medium fine grained grey-blue, angular. Splits from more rounded outcrops. Dark brown-red/black weathering.
Vegetation Inadequate detail recorded for a vegetation description to be compiled.
Veg Condition Good to poor, *Cenchrus ciliaris prominent, and *Aerva javanica present.
Fire Age < 1997?
Notes The entire rockpile without edge vegetation, the vegetation below rockpile (foreground of photo) is *Triodia angusta* hummock grassland.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	3.5 m		
	<i>Amaranthus pallidiflorus</i>	+	<1 %	20 cm		Usual.
	<i>Aristida nitidula</i>	+	<1 %	50 cm		Short awn, usual.
	<i>Cenchrus ciliaris</i>	+	<1 %	60 cm		
	<i>Eremophila longifolia</i>	+	<1 %	1.5 m		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	3 m		
	<i>Gomphrena cunninghamii</i>	+	<1 %	20 cm		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1.2 m		
	<i>Mukia maderaspatana</i>	+	<1 %	1.2 m	HD207-2	Moderate to large leaf.
	<i>Paspalidium tabulatum</i> (Whim Creek form)	+	<1 %	50 cm		
	<i>Pterocaulon sphacelatum</i>	+	<1 %	40 cm		Usual.
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	60 cm		
	<i>Rhagodia eremaea</i>	+	<1 %	1.85 m		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	2.5 m		
	<i>Solanum phlomoides</i>	+	<1 %	< 10 cm		
	<i>Terminalia supranitifolia</i>	+	<1 %	3 m	HD207-1	Erect.
	<i>Tinospora smilacina</i>	+	<1 %	3 m		
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	40 cm		
	<i>Trichosanthes cucumerina</i>	+	<1 %	2 m		
	<i>Triodia epactia</i>	+	<1 %	40 cm		
	<i>Triumfetta clementii</i>	+	<1 %	60 cm	HD207-3	Small.
	<i>Triumfetta maconochieana</i>	+	<1 %	60 cm		=HD177

Harding Dam Site HD208

Described by ASW **Date** 5/06/00

Location North-east HI Railway.

Air Photo **Photo** **on Roll** **Video** **N** **E** **Photo**

Photo Notes

AMG Zone 50 498825mE, 7667711mN

Habitat Moderate to steep boulderly slopes.

Soil Where present, a thin brown sandy loam, lots of organic matter.

Rock Type Weathered dark brown, angular, medium-fine grained, even dark-blue grey inside.

Vegetation Inadequate data recorded for a vegetation description to be compiled.

Veg Condition Good - **Cenchrus ciliaris* is common to abundant in the understorey.

Fire Age

Notes *Spinifex* around rockpile (railway is on west side) is not recently burnt, but most of vegetation elsewhere was burnt in 1999 or 1998. Mainly *Triodia wiseana* and **Cenchrus ciliaris*, the substrata density and species composition appears similar to the Table Hill plot.

Rock Pile Notes**Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>		<1 %	50 cm	HD208-3	Malvaceae
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>		<1 %	2.5 m		Approx erect, broad

<i>Aristida nitidula</i>	<1 %	60 cm		
<i>Cenchrus ciliaris</i>	<1 %	60 cm		
<i>Commicarpus australis</i>	<1 %	1.5 m		
<i>Cymbopogon ambiguus</i>	<1 %	60 cm		Edge.
<i>Dichrostachys spicata</i>	<1 %	3.5 m		
<i>Eremophila longifolia</i>	+	<1 %	1.3 m	HD208-4 Edge.
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	<1 %	> 4 m	HD208-1	On but near edge.
<i>Jasminum didymum</i> subsp. <i>lineare</i>	<1 %	1.5 m		
<i>Mukia maderaspatana</i>	<1 %	80 cm		
<i>Paspalidium tabulatum</i> (Whim Creek form)	<1 %	60 cm		
<i>Rhagodia eremaea</i>	<1 %	1.8 m		
<i>Scaevola spinescens</i> (narrow form)	<1 %	2.5 m		
<i>Solanum phlomoides</i>	<1 %	60 cm		
<i>Terminalia supranitifolia</i>	<1 %	2.5 m	HD208-2	
<i>Tinospora smilacina</i>	<1 %	2 m		
<i>Trichosanthes cucumerina</i>	<1 %	2.5 m		

Harding Dam Site HD209

Described by ASW **Date** 5/06/00

Location Rockpile ~ 300 m east of railway cut before 61 km post.

Air Photo **Photo** 12 **on Roll** AS **Video** N **E Photo**

Photo Notes 12 looking E @ 90 degrees from near HD208.

AMG Zone 50 499186mE, 7667708mN

Habitat Moderately steep bouldery slope of rockpile.

Soil Red-brown sandy loam, with some silt, to red silty loam on south side.

Rock Type Medium fine grained light blue-grey, weathered dark red-brown, angular to subangular outcrops around it.

Vegetation Inadequate data recorded for a vegetation description to be compiled.

Veg Condition Very good to excellent.

Fire Age Before 1995?

Notes Recent fire has burnt surrounding vegetation to edge of rockpile.
Excluding edges of vegetation, contiguous with bordering hummock grassland.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon fraseri</i>	<1 %		50 cm		=HD208, Malv.
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	<1 %		2.5 m		
	<i>Amaranthus pallidiflorus</i>	<1 %		50 cm		
	<i>Aristida nitidula</i>	<1 %		60 cm		
	<i>Boerhavia coccinea</i> (form A)	<1 %		80 cm	HD209-2	Hairy
	<i>Cleome viscosa</i>	<1 %		60 cm		Dense.
	<i>Commicarpus australis</i>	<1 %		1.2 m		
	<i>Dichrostachys spicata</i>	<1 %		3.5 m		
	<i>Ehretia saligna</i> var. <i>saligna</i>	<1 %		4 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	15 cm		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	<1 %		2 m		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	<1 %		1.3 m		
	<i>Melhania</i> sp. <i>Burrup</i>	<1 %		70 cm	HD209-1	Malv. 2 (grey)
	<i>Mukia maderaspatana</i>	<1 %		1.5 m		
	<i>Paspalidium tabulatum</i> (Whim Creek form)	<1 %		50 cm		
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	<1 %		70 cm		
	<i>Rhagodia eremaea</i>	<1 %		1.8 m		
	<i>Scaevola spinescens</i> (narrow form)	<1 %		1.5 m		
	<i>Solanum horridum</i>	<1 %		20 cm		
	<i>Solanum phlomoides</i>	<1 %		50 cm		
	<i>Terminalia supranitifolia</i>	<1 %				
	<i>Tinospora smilacina</i>	<1 %		30 cm		

Trichosanthes cucumerina	<1 %	1.8 m	
Triumfetta maconochieana	<1 %	30 cm	=HD177

Karratha Hills quadrats

Karratha Hill **Site** KA204

Described by VLL **Date** 5/06/00 50 x 50 m

Location Southward facing slope ~300 m north of CALM arboretum.

Air Photo **Photo** 17 **on Roll** F4 **Video** N **E Photo**

Photo Notes

AMG Zone 50 486304mE, 7704607mN 486322mE, 7704549mN 486327mE, 7704500mN 486269mE, 7704556mN

Habitat Southward facing hillslope, very gravelly/thick gravel mantle. Very few (< 2%) larger rocks.

Soil Brown silty loam. Gravelly, mixed gravel included quartz banded rock and calcrete.

Rock Type Gravel, quartz and calcrete, plus fine-grained brown-grey striped rocks and gravel 3-10 cm diameter. Gravel covers >90% of surface.

Vegetation Acacia pyrifolia (slender, white), Styliidium spathulatum, Acacia synchronicia, Cassia glutinosa shrubland over Indigofera monophylla (Burrup form), Acacia trachycarpa low shrubland over Triodia epactia (Burrup form), Triodia wiseana (Burrup form) hummock grassland.

Veg Condition Excellent.

Fire Age Not within past 10 years.

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	20 cm	KA204-9	
	Acacia bivenosa	+	<1 %	20 cm		Not frequent
	Acacia pyrifolia (slender, white)	15	10-25%	1.25 m		Grey pruinose
	Acacia synchronicia	5	1-5%	1.25 m		
	Acacia trachycarpa	10	5-10%	35-45 cm		
	Bonamia media var. villosa	+	<1 %	25 cm	KA204-14	
	Cassia glutinosa	15	10-25%	1 m		
	Cassia oligophylla	+	<1 %	30 cm		
	Cassia pruinosa	+	<1 %	1.25 m	KA204-12	
	Cassytha capillaris	+	<1 %			As for other samples,
	Cenchrus ciliaris	+	<1 %	10 cm		Grazed
	Corchorus aff. sidoides (KA204-10)	+	<1 %	1-5 m	KA204-10	KA204-11, {Recorded
	Crotalaria novae-hollandiae subsp.	+	<1 %	20 cm		
	Cymbopogon obtectus	+	<1 %	50 cm	KA204-4	One only.
	Diplopeltis eriocarpa	+	<1 %	25 cm		
	Evolvulus alsinoides var. villosicalyx	+	<1 %	20 cm		elvals, no name.
	Hybanthus aurantiacus	+	<1 %	20 cm		
	Indigofera monophylla (Burrup form)	5	1-5%	35 cm		
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %	25 cm		
	Pterocaulon sphaeranthoides	+	<1 %	20 cm		
	Ptilotus calostachyus var. calostachyus	+	<1 %	6 cm	KA204-7	Seedling, slightly
	Rhynchosia cf. minima	+	<1 %			Grey green creeper.
	Solanum diversiflorum	+	<1 %	20 cm		
	Solanum horridum	+	<1 %	15 cm	KA204-8	
	Solanum phlomoides	+	<1 %	30 cm		
	Stackhousia muricata	+	<1 %	20 cm	KA204-1	
	Stylobasium spathulatum	5	1-5%	1.25 m		
	Tephrosia supina	+	<1 %	2 cm	KA204-13	Prostrate
	Trachymene aff. oleracea (B61)	+	<1 %	1 cm	KA204-3	
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	2-30 cm		
	Triodia epactia (Burrup Form)	35-45%	33.3-50%	30-40 cm	KA204-5	
	Triodia wiseana (Burrup Form)	20-30	25-33.3%	30 cm	KA204-6	
	Triumfetta clementii	+	<1 %	3-20 cm	KA204-2	Maybe Tricle gone

Karratha Hill Site KA205**Described by** VLL **Date** 5/06/00 25 x 75 m**Location** ~1.5 km from SE corner of Bulgarra town block.**Air Photo** **Photo** ? **on Roll** F4 **Video** N **E Photo****Photo Notes****AMG Zone** 50 487149mE, 7706442mN 487058mE, 7706422mN 487079mE, 7706390mN 487170mE, 7706480mN**Habitat** West facing gravelly scree slope, vegetated, gently sloping from rockpile behind, west toward Bulgarra.**Soil** Fine red-brown silty loam.**Rock Type** Gravel and stones, angular, 3-10 cm = mantle, then scattered larger rocks to 30 cm, and small rock outcrops (not sampled).**Vegetation** Acacia pyrifolia (slender, white) scattered shrubs over Indigofera monophylla (Burrup form) scattered low shrubs over Triodia epactia (Burrup form) hummock grassland.**Veg Condition** Excellent, no weeds.**Fire Age** N/A**Notes** Exposed slope facing west, therefore subject to westerlies, immediately before coastal flat. Triodia wiseana (Burrup form) very tight compact hummocks, very light green, short culms, very very sharp.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	20 cm		
	Acacia bivenosa	+	<1 %	60 cm		
	Acacia pyrifolia (slender, white)	<1%	<1 %	1.1 m		Pruinose
	Alysicarpus muelleri	+	<1 %	25 cm		
	Boerhavia gardneri	+	<1 %	35 cm	KA205-3	
	Bonamia media var. villosa	+	<1 %	2 cm	KA205-8	
	Bulbostylis barbata	+	<1 %	15 cm		
	Cassia glutinosa	+	<1 %	1 m		
	Cassia pruinosa	+	<1 %	80 cm	KA205-4	aff. glu Sterile.
	Cenchrus ciliaris	+	<1 %	20 cm		Are near rockpiles.
	Cleome viscosa	+	<1 %	10 cm		
	Corchorus sidoides	+	<1 %	35 cm		As in KA204
	Enneapogon sp.	+	<1 %	3 cm		Enncar? (rarely).
	Euphorbia sp. (site 1163)	+	<1 %	20 cm	KA205-6,1	{Recorded twice}
	Evolvulus alsinoides var. villosicalyx	+	<1 %		KA205-5	Elvals, no name.
	Gomphrena cunninghamii	+	<1 %	20 cm		
	Goodenia microptera	+	<1 %	30 cm	KA205-1	
	Goodenia stobbsiana	+	<1 %	40 cm		
	Gossypium australe (Burrup Peninsula form)	+	<1 %	80 cm	KA205-2	
	Grevillea pyramidalis subsp. pyramidalis	+	<1 %	1 m		
	Heliotropium cunninghamii	+	<1 %	15 cm	KA205-10	?cun/ten
	Hibiscus aff. platychlams (MET 15,067)	+	<1 %	25 cm	KA205-7	Type.
	Indigofera monophylla (Burrup form)	+	<1 %	30 cm		
	Mollugo molluginis	+	<1 %	25 cm		
	Ptilotus obovatus var. obovatus	+	<1 %	45 cm		
	Rhynchosia cf. minima	+	<1 %			Grey green creeper
	Streptoglossa decurrens	+	<1 %	10 cm		
	Tephrosia supina	+	<1 %	2 cm	KA205-11	As in KA204, with pod.
	Triodia epactia (Burrup Form)	40%	<1 %	30-70 cm	KA205-9	
	Triodia wiseana (Burrup Form)	+	<1 %		KA205-13	Very tightly compact
	Triumfetta clementii	+	<1 %	20 cm		

Karratha Hill Site KH210**Described by** ASW **Date** 5/06/00

- Location** SE of new sewage treatment ponds, approx. 100-200 m. "Craig Steen Hill".
- Air Photo** **Photo** Y **on Roll** AS **Video** N **E Photo**
- Photo Notes** 16, looking 70 degrees from under 3-line transmission; 17 ,
- AMG Zone** 50
- Habitat** Near vertical vegetated cliff on south side of east-west ridge (wall-of-china type). Steep, vegetated, mainly *Triodia epactia* (Burrup form) slope on north side.
- Soil** Brown silty loam (see KH205).
- Rock Type** Outcrop: sedimentary layers, ?quartz dolomite. Angular and platy - ironstone?
- Vegetation** *Flueggea virosa* subsp. *melanthesoides*, *Ehretia saligna*, *Ficus platypoda*, *Acacia coriacea* subsp. *coriacea* scattered tall shrubs to low trees over *Rhagodia eremaea* scattered shrubs over **Cenchrus ciliaris*, *Triodia epactia* (Burrup form), *Themeda* sp. Burrup (B84) tussock/hummock grassland.
- Veg Condition** Poor, much *Cenchrus ciliaris*, some **Aerva javanica*.
- Fire Age** Probably 1996 period.
- Notes** The southern base of the outcrops cliff is angular, boulders with an upper band of **Cenchrus ciliaris*, a mid-lower band of *Themeda* and **C. ciliaris* and a lower band of *Triodia epactia* (Burrup form) and *Rhynchosia* sp. (usual).
- Rock Pile Notes** The rockpile/outcrop plot begins at the base of the cliff above the scree slope, uphill from the uphill edge of Vicki's plot.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>lepidum</i> (4)	+	<1 %	40 cm	KH210-1	
	<i>Acacia bivenosa</i>	+	<1 %	1.5 m		
	<i>Acacia coriacea</i> subsp. <i>coriacea</i>	+	<1 %	2.5 m		
	<i>Aerva javanica</i>	+	<1 %	60 cm		
	<i>Amaranthus pallidiflorus</i>	+	<1 %	15 cm		
	<i>Capparis spinosa</i> var. <i>nummularia</i>	+	<1 %	1 m		
	<i>Cassia glutinosa</i>	+	<1 %	1.2 m		
	<i>Cenchrus ciliaris</i>	<30	25-33.3%	50 cm		
	<i>Cymbopogon ambiguus</i>	+	<1 %	60 cm		
	<i>Cynanchum floribundum</i>	+	<1 %	20 cm		
	<i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i>	+	<1 %	40 cm		
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2.5 m		
	<i>Enchylaena tomentosa</i>	+	<1 %	50 cm		
	<i>Enneapogon oblongus</i>	+	<1 %	60 cm	KH210-4	
	<i>Eremophila longifolia</i>	+	<1 %	> 2 m		
	<i>Eriachne mucronata</i> (typical form)	2-5	1-5%	40 cm	KH210-3	
	<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	1.2 m		
	<i>Ficus platypoda</i>	+	<1 %	3.5 m		
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2 m		
	<i>Gomphrena cunninghamii</i>	+	<1 %	15 cm		
	<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1.2 m		
	<i>Mukia maderaspatana</i>	+	<1 %	30 cm		
	<i>Nicotiana benthamiana</i>	+	<1 %	40 cm		Large leaf, no flowers
	<i>Plumbago zeylanica</i>	+	<1 %	60 cm		
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	60 cm		
	<i>Rhagodia eremaea</i>	+	<1 %	1.4 m		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	20 cm		
	<i>Themeda</i> sp. Burrup (B84)	5-10	5-10%	60 cm	KH210-2	
	<i>Trachymene</i> aff. <i>oleracea</i> (B61)	+	<1 %	30 cm		
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	15 cm		
	<i>Trichosanthes cucumerina</i>	+	<1 %	30 cm		
	<i>Triodia epactia</i> (Burrup Form)	10-15	10-25%	40 cm		

Karratha Hill **Site** KH211

Described by ASW **Date** 5/06/00

Location South of waterfall and east of rockpool, NE of sewage plant by small gully/gorge with calcrete waterfall.

Air Photo **Photo** **Y** **on Roll** **AS** **Video** **N** **E Photo**

Photo Notes 18-19, Martin's second film. 18-21 of ASW.

AMG Zone 50 487042mE, 7706217mN 487092mE, 7706229mN

Habitat Moderately to very steep bouldery slopes, small cliffs and summit ridge.

Soil Brown loam in pockets higher up slope, rich red clay loam in lower pockets and below rockpile.

Rock Type Weathered dark red-brown, light blue-grey fine to medium grain, quartz evident. Outcrops show rounding, rocks angular.

Vegetation Inadequate data recorded for a vegetation description to be compiled.

Veg Condition Good to poor, much *Cenchrus ciliaris.

Fire Age N/A

Notes**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea		<1 %	2.5 m		
	Aerva javanica	+	<1 %	60 cm		
	Amaranthus pallidiflorus	+/- 1	<1 %	30 cm		
	Brachychiton acuminatus	+	<1 %	< 2 m		
	Capparis spinosa var. nummularia	+	<1 %	60 cm		
	Cassia glutinosa		<1 %	> 2 m		
	Cenchrus ciliaris		<1 %			
	Cleome viscosa		<1 %	60 cm		
	Clerodendrum tomentosum		<1 %	< 2 m	KH211-1	
	Commicarpus australis		<1 %	1.3 m		
	Cymbopogon ambiguus		<1 %	60 cm		
	Cyperus cunninghamii subsp. cunninghamii		<1 %	40 cm		
	Ehretia saligna var. saligna		<1 %			
	Erythrina vespertilio	1-2	1-5%	3 m		
	Evolvulus alsinoides var. villosicalyx	+	<1 %	30 cm	KH211-2	
	Flueggea virosa subsp. melanthesoides		<1 %	2.5 m		
	Genus sp. Unnamed		<1 %	30 cm		Malvacea l.
	Gomphrena cunninghamii		<1 %	20 cm		Common, dead.
	Indigofera monophylla (Burrup form)	+	<1 %	10 cm		
	Jasminum didymum subsp. lineare	+	<1 %	50 cm		
	Mukia maderaspatana		<1 %	30 cm		
	Phyllanthus maderaspatensis var. angustifolius		<1 %	30 cm		Herb.
	Ptilotus obovatus var. obovatus		<1 %	1.1 m		First seen in flower
	Rhagodia eremaea		<1 %	> 2 m		
	Rhynchosia cf. minima		<1 %	50 cm		[presumed to be
	Tinospora smilacina		<1 %	> 2 m		
	Trichodesma zeylanicum var. zeylanicum		<1 %	60 cm		
	Trichosanthes cucumerina		<1 %	> 2 m		
	Triodia epactia (Burrup Form)		<1 %	40 cm		
	Triumfetta appendiculata (Burrup Form)	+	<1 %	20 cm		Felty, white.

Karratha Hill Site KH212

Described by ASW **Date** 5/06/00

Location North of upper end of waterfall, and southeast of southeast of Karratha.

Air Photo **Photo** **Y** **on Roll** **AS** **Video** **N** **E Photo**

Photo Notes 20-22

AMG Zone 50 484138mE, 7706376mN

Habitat Slopes bouldery and mainly steep.

Soil Rocky brown loam.

Rock Type See KH211.

Vegetation Inadequate detail recorded for a vegetation description to be compiled.

Veg Condition Very good to good, *Cenchrus ciliaris and *Aerva javanica weeds conspicuous/prominent in some pockets.

Fire Age

Notes Excluding edge, but Dicliptera armata is on western edge.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia coriacea subsp. coriacea	+	<1 %			
	Achyranthes aspera	+	<1 %	70 cm		
	Cenchrus ciliaris	+	<1 %			
	Cleome viscosa	+	<1 %			
	Clerodendrum tomentosum	+	<1 %	3 m	KH212-2	
	Commicarpus australis	+	<1 %			
	Cymbopogon ambiguus	+	<1 %			
	Cynanchum floribundum	+	<1 %			
	Ehretia saligna var. saligna	+	<1 %	3 m		
	Enchylaena tomentosa	+	<1 %			
	Eremophila longifolia	+	<1 %			
	Genus sp. Unnamed	+	<1 %			Malvaceae 1
	Jasminum didymum subsp. lineare	+	<1 %			
	Malvastrum americanum	+	<1 %			
	Mukia maderaspatana	+	<1 %			
	Phyllanthus maderaspatensis var. angustifolius	+	<1 %			Herb.
	Ptilotus obovatus var. obovatus	+	<1 %			
	Rhagodia eremaea	+	<1 %	1.2 m		
	Rhynchosia cf. minima	+	<1 %			[presumed to be
	Santalum lanceolatum	+	<1 %		KH212-1	?Specimen lost, and
	Scaevola spinescens (narrow form)	+	<1 %			
	Solanum horridum	+	<1 %			
	Tinospora smilacina	+	<1 %			
	Trichodesma zeylanicum var. zeylanicum	+	<1 %	1.2 m		
	Trichosanthes cucumerina	+	<1 %			
	Triodia epactia (Burrup Form)	+	<1 %			

Whim Creek quadrats

Whim Creek Site W138

Described by ASW **Date** 1/06/00

Location 50 degrees to microwave tower to NE of peg.

Air Photo **Photo** Y **on Roll** AS **Video** N **E Photo**

Photo Notes 20, from near car/fence; 21; 22 (from Peg 1, looking SW).

AMG Zone 50 593519mE, 7694375mN 593485mE, 7694323mN

Habitat Lower, rocky mid-steep to steep N facing slope, hummock grassland.

Soil Fine red clay with aggregates and gravel.

Rock Type Cobbles cover >90% of the surface. Some outcropping ~1%. All very hard fine grained rock, grey inside and weathered red outside. Some quartz evident

Vegetation Acacia orthocarpa open shrubland over Indigofera monophylla (Burrup form), Indigostrum parviflorum (Whim Creek form; W138-3) scattered low shrubs to low open shrubland over Triodia epactia hummock grassland with Rhynchosia cf. minima lianes.

Veg Condition Very good (-E)

Fire Age Probably 1994-7 period, at least partially burnt.

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia orthocarpa	1-<2	1-5%	<1-1.5 m	W138-1	
	Bonamia media var. villosa	+/-1	<1 %	5-10 cm	W138-8,4	{Recorded twice}
	Cleome viscosa	+	<1 %	15 cm		
	Corchorus laniflorus	+	<1 %	20 cm		usual, see Vicki
	Gomphrena cunninghamii	+/-1	<1 %	15 cm		+/- dead
	Indigostrum parviflorum (Whim Creek form; W138-3)	+/-1	<1 %	50 cm	W138-3,9	orange flowers, mostly
	Indigofera monophylla (Burrup form)	1-2	1-5%	60 cm		
	Rhynchosia cf. minima	50	33.3-50%	60 cm	W138-2	
	Sida cardiophylla	+	<1 %	60 cm	W138-5	
	Triodia epactia	60	50-75%	30-50 cm	W138-6	
	Triodia wiseana	1-2	1-5%	60 cm	W138-7	

Whim Creek Site W139

Described by ASW **Date** 1/06/00

Location Upslope to SE of W138 on rockpile above Triodia patch

Air Photo **Photo** Y **on Roll** AS **Video** N **E Photo**

Photo Notes 20 (from a distance), 23 (from near Peg 1).

AMG Zone 50 593612mE, 7694243mN 593654mE, 7694191mN 593659mE, 7694236mN 593603mE, 7694194mN

Habitat Boulder jumble with clumps, rather than patches, of vegetation. Moderately to very steep slope.

Soil Must be some somewhere! A few pockets of red-brown clay to loamy clay.

Rock Type Rockpile - boulders fine grained grey to grey/blue. Very hard.

Vegetation Terminalia canescens, Ehretia saligna var. saligna low woodland over Carissa lanceolata high open shrubland over Jasminum didymum subsp. lineare, Scaevola spinescens (narrow form), Gossypium australe (Whim Creek form) open shrubland over Aristida nitidula open grassland.

Veg Condition Very good to excellent.

Fire Age Long?

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Aristida nitidula	30	33.3-50%	70 cm		see MET and VLL

<i>Boerhavia coccinea</i> (form A)	+	<1 %	50 cm	W139-12	
<i>Bulbostylis barbata</i>	+	<1 %	<10 cm	W139-16	
<i>Carissa lanceolata</i>	<10(30)	10-25%	2.5 m	W139-10	
<i>Cleome viscosa</i>	+	<1 %	20 cm		
<i>Clerodendrum tomentosum</i>	+	<1 %	20 cm	W139-15	very young
<i>Corchorus laniflorus</i>	+	<1 %	50 cm	W139-13	usual
<i>Cymbopogon ambiguus</i>	+	<1 %	80 cm	W139-11	
<i>Cyperus hesperius</i>	+	<1 %	60 cm	W139-9	
<i>Dichrostachys spicata</i>	+	<1 %	50 cm	W139-4	
<i>Ehretia saligna</i> var. <i>saligna</i>	1	1-5%	4.5 m		
<i>Euphorbia</i> sp. (site 1163)	+	<1 %	20 cm	W139-14	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1	1-5%	3 m		
<i>Gomphrena cunninghamii</i>	+	<1 %	10 cm		
<i>Gossypium australe</i> (Whim Creek form)	1	1-5%	1.8		pseudoaustrale?
<i>Jasminum didymum</i> subsp. <i>lineare</i>	2	1-5%	80 cm		
<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	25 cm	W139-17	
<i>Mukia maderaspatana</i>	+	<1 %	2 m	W139-3	
<i>Paspalidium tabulatum</i> (Whim Creek form)	+	1-5%	50 cm	W139-7	
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	50 cm	W139-5	herb, 2 spp?
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	20 cm		[presumed to be
<i>Scaevola spinescens</i> (narrow form)	1	1-5%	2.5 m	W139-2	large and small leaves
<i>Sida rohlenae</i> var. <i>rohlenae</i>	+	<1 %	50 cm	W139-6	spic?
<i>Solanum petrophilum</i>	+	<1 %	30 cm	W139-1	
<i>Terminalia canescens</i>	20	10-25%	5 m		
<i>Tinospora smilacina</i>	+	<1 %	3 m		vine
<i>Trichosanthes cucumerina</i>	+	<1 %	1.5 m		

Whim Creek Site W144

Described by MET **Date** 1/06/00

Location South of highway, east of Whim Creek.

Air Photo **Photo** 8 **on Roll** M2 **Video** N **E Photo** 232-3,36-

Photo Notes

AMG Zone 50 593252mE, 7694353mN 593206mE, 7694331mN

Habitat Steep boulder scree, faces N and NNW.

Soil Red-brown clayey loam.

Rock Type Mostly fine grained grey, some with quartz inclusions.

Vegetation *Terminalia canescens*, *Ehretia saligna* var. *saligna*, *Ventilago viminalis* low open woodland to high open shrubland over *Flueggea virosa* subsp. *melanthesoides* scattered tall shrubs over *Gossypium australe* (Whim Creek form), *Scaevola spinescens* (narrow form) scattered shrubs over *Aristida nitidula* open tussock grassland.

Veg Condition Excellent.

Fire Age >5 years?>10 years.

Notes *Gossypium australe* (Whim Creek form) common along lower edge but only occasional along rockpile, except for one patch with a number of individuals in the site. The *Aristida nitidula* is common along the rockpile and along the lower edge. The nearby slopes and lower edge have possibly been burnt more recently.

Rock Pile Notes Fairly steep slope, boulders mostly angular and medium sized near Peg 1, but areas with large boulders and some outcrop over the rest of the plot. About 10% soil surface.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Acacia orthocarpa</i>	+	<1 %	1.3	W144-16	Only along lower edge
	<i>Aristida nitidula</i>	>5	5-10%	50-90 cm	W144-1	
	<i>Boerhavia gardneri</i>	+	<1 %	60 cm	W144-17	Only along lower edge
	<i>Carissa lanceolata</i>	+	<1 %	3 m	W144-12	Spiny bush
	<i>Cassia glutinosa</i>	+	<1 %	1 m	W144-13	
	<i>Cassia oligophylla</i> x <i>helmsii</i>	+	<1 %	1.4 m		

<i>Cassia venusta</i>	+	<1 %	40 cm	W144-10	
<i>Clerodendrum tomentosum</i>	+	<1 %	20 cm		Juvenile
<i>Corchorus laniflorus</i>	+	<1 %	20-50 cm	W144-7	
<i>Cymbopogon ambiguus</i>	+	<1 %	50-80 cm	W144-6	
<i>Dichrostachys spicata</i>	+	<1 %	40 cm	W144-11	No thorns, usually in
<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	4-5 m		(1.2)
<i>Eriachne mucronata</i> (typical form)	+	<1 %	50 cm	W144-8	
<i>Euphorbia</i> sp. (site 1163)	+	<1 %	15 cm		
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	2 m		
<i>Gomphrena cunninghamii</i>	+	<1 %	10 cm		Only along lower edge
<i>Gossypium australe</i> (Whim Creek form)	+/-1	<1 %	1.6 m	W144-18	
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	1 m		
<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	40 cm	W144-9	
<i>Paspalidium tabulatum</i> (Whim Creek form)	+	<1 %	30 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	80 cm		
<i>Pterocaulon sphacelatum</i>	+	<1 %	50 cm	W144-5	
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1-1.3	W144-3	
<i>Sida rohlenae</i> var. <i>rohlenae</i>	+	<1 %	35 cm		
<i>Solanum petrophilum</i>	+	<1 %	25 cm	W144-2	
<i>Terminalia canescens</i>	>5	5-10%	3-5 m	W144-14	(1.5)
<i>Tinospora smilacina</i>	+	<1 %	2 m		
<i>Trichosanthes cucumerina</i>	+	<1 %	1-3 m		
<i>Triumfetta appendiculata</i> (Whim Creek form)	+	<1 %	60 cm	W144-15	Only along lower edge
<i>Triumfetta clementii</i>	+	<1 %	20 cm		
<i>Triumfetta maconochieana</i>	+	<1 %			
<i>Ventilago viminalis</i>	+	<1 %	2-4 m	W144-4	(1.5)

Whim Creek Site W145

Described by MET **Date** 1/06/00

Location East of Whim Creek, south of highway.

Air Photo **Photo** 7 **on Roll** MB **Video** N **E Photo** 229,30,31

Photo Notes

AMG Zone 50 593575mE, 7694018mN 593567mE, 7693967mN

Habitat Boulder rockpile on crest of a large hill.

Soil Orange-brown loam amongst cobbles.

Rock Type Grey, fine grained volcanic igneous.

Vegetation *Terminalia canescens*, *Ehretia saligna* var. *saligna* scattered low trees over *Carissa lanceolata* scattered shrubs over *Aristida nitidula* scattered tussock grasses with *Tinospora smilacina*, *Trichosanthes cucumerina* scattered lianes.

Veg Condition Excellent.

Fire Age >10 years.

Notes Crest has a cobbly soil patch with a clump of *Carissa lanceolata*. Annuals such as *Polycarphaea*, *Sporobolus*, *Cleome* and *Aizoaceae* in this.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Amaranthus</i> aff. <i>pallidiflorus</i> (WC148-11)	+	<1 %	15-80 cm	W145-2	
	<i>Aristida nitidula</i>	<1	<1 %	0.8 m		=W144
	<i>Boerhavia coccinea</i> (form A)	+	<1 %	50 cm	W145-3	
	<i>Boerhavia coccinea</i> (form B)	+	<1 %	15 cm	W145-10	
	<i>Carissa lanceolata</i>	+	<1 %	1.7 m		=W144
	<i>Cassia glutinosa</i>	+	<1 %	0.35-2.3		=W145
	<i>Cleome viscosa</i>	+	<1 %	80 cm		dead
	<i>Corchorus laniflorus</i>	+	<1 %	45 cm	W145-15	slightly glandular,
	<i>Cuscuta victoriana</i>	+	<1 %	30 cm	W145-13	
	<i>Ehretia saligna</i> var. <i>saligna</i>	+	<1 %	2 m		

<i>Eremophila longifolia</i>	+	<1 %	1 m	W145-1	
<i>Euphorbia coghlanii</i>	+	<1 %	55 cm	W145-18	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	+	<1 %	60 cm		
<i>Gomphrena cunninghamii</i>	+	<1 %	25 cm		
<i>Gossypium australe</i> (Whim Creek form)	+	<1 %	1-1.6		=W144
<i>Jasminum didymum</i> subsp. <i>lineare</i>	+	<1 %	0.7-1.5 m		
<i>Leptopus decaisnei</i> var. <i>decaisnei</i>	+	<1 %	30 cm		=144
<i>Mukia maderaspatana</i>	+	<1 %	75 cm	W145-11	
<i>Nicotiana benthamiana</i>	+	<1 %	12-50 cm	W145-4	
<i>Paspalidium tabulatum</i> (Whim Creek form)	+	<1 %	60 cm		
<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	20-30 cm		
<i>Polycarpha longiflora</i> (Whim Creek form, WC147-7)	+	<1 %	20-40 cm	W145-12	white
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	+	<1 %	45 cm	W145-9	
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %	30 cm	W145-6	grey green
<i>Scaevola spinescens</i> (narrow form)	+	<1 %	50 cm		=W144
<i>Sida spinosa</i>	+	<1 %	50-95 cm		=W144. Quite woody
<i>Solanum petrophilum</i>	+	<1 %	12-35 cm	W145-7	=W144
<i>Sporobolus australasicus</i>	+	<1 %	40 cm	W145-8	
<i>Terminalia canescens</i>	+/-1	<1 %	2-5 m		=W144
<i>Tinospora smilacina</i>	+	<1 %	0.2-3 m		
<i>Trichosanthes cucumerina</i>	+	<1 %	2 m		
<i>Triodia wiseana</i>	+	<1 %	30-45 cm		
<i>Triumfetta clementii</i>	+	<1 %	35 cm		
<i>Zaleya galericulata</i>	+	<1 %	75 cm	W145-5	Aizoaceae

Whim Creek Site W146

Described by MET **Date** 1/06/00

Location ? Km west of Whim Creek and just south of highway next to Sherwood river(?)

Air Photo **Photo** 6 **on Roll** MB **Video** N **E Photo**

Photo Notes

AMG Zone 50 563086mE, 7683096mN 563127mE, 7683125mN

Habitat Boulder rockpile/scree, east facing.

Soil Light brown loam amongst cobbles and boulders.

Rock Type Medium grained grey/white (mafic and feldspars) volcanic/igneous.

Vegetation *Terminalia canescens*, *Ehretia saligna* scattered low trees over patches of **Cenchrus ciliaris*, *Triodia wiseana* scattered tussock/hummock grasses.

Veg Condition Poor - good. Heavy Buffel invasion of small vegetation areas reduces condition substantially.

Fire Age >10 years.

Notes

Rock Pile Notes Boulders are mostly angular and vary from small (<50 cm) to very large. There is a strip of *Triodia* between two areas of boulder scree.

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Abutilon</i> aff. <i>lepidum</i> (5)	+	<1 %	65 cm	W146-4	Only at edges
	<i>Boerhavia coccinea</i> (form A)	+	<1 %	25 cm	W146-2	
	<i>Cassia oligophylla</i>	+	<1 %	1.3 m	W146-5	Only at edges
	<i>Cenchrus ciliaris</i>	+	<1 %	40-60 cm		
	<i>Clerodendrum tomentosum</i>	+	<1 %	1.2 m		stressed
	<i>Commicarpus australis</i>	+	<1 %	70 cm		
	<i>Corchorus sidoides</i>	+	<1 %	30-60 cm	W146-1	Only at edges
	<i>Ehretia saligna</i> var. <i>saligna</i>	>=1	1-5%	2-3.5		(0.5)
	<i>Ficus opposita</i> var. <i>indecora</i>	+	<1 %	2 m	W146-6	near upper edge
	<i>Hibiscus</i> aff. <i>platyklamys</i> (MET 15,067)	+	<1 %	20 cm	W146-3	Only at edges
	<i>Paspalidium tabulatum</i> (Whim Creek form)	+	<1 %	45 cm		
	<i>Scaevola spinescens</i> (narrow form)	+	<1 %	1.7 m		
	<i>Terminalia canescens</i>	<=1	<1 %	2-4 m		

<i>Tinospora smilacina</i>	+	<1 %	3.5 m		
<i>Triodia epactia</i>	+	<1 %	40-50 cm	W146-2	Only at edges
<i>Triodia wiseana</i>	+	<1 %	20-50 cm		
<i>Triumfetta clementii</i>	+	<1 %	30 cm		

Whim Creek Site W147

Described by VLL **Date** 1/06/00

Location Steep, hilly country approximately 5 km E of Whim Creek Hotel on S side of NW Coastal Highway (~1.5 km S).

Air Photo **Photo** 1-> **on Roll** F3 **Video** N **E Photo**

Photo Notes

AMG Zone 50 593691mE, 7694129mN 593714mE, 7694168mN

Habitat Very, very steep rocky, well vegetated (*Triodia*) slope, facing NNE - rock outcrops and boulders to 1.5 m - with quartz embedded in rock - small round to oval bits 1 cm-2.5 cm quartz.

Soil Pink-fine-reddish fine loam.

Rock Type Light brown and grey fine grained, often with quartz embedded in surface.

Vegetation *Gossypium australe* (Whim Creek form), *Grevillea pyramidalis* subsp. *pyramidalis* scattered shrubs over *Indigofera monophylla* (Burrup form), *Corchorus laniflorus* low scattered shrubs over *Triodia wiseana* closed hummock grassland with *Rhynchosia* cf. *minima* open lianes.

Veg Condition Excellent. No weeds.

Fire Age

Notes Smaller herbs occur around rocks and smaller rockpiles - other areas are too densely covered with *Triodia* to support them.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	<i>Boerhavia gardneri</i>	+	<1 %	35 cm	W147-12	
	<i>Bulbostylis barbata</i>	+	<1 %	75 cm	W147-19	
	<i>Cassia venusta</i>	+	<1 %	80 cm		
	<i>Cleome viscosa</i>	+	<1 %	25 cm		
	<i>Corchorus laniflorus</i>	+	<1 %	15-30 cm	W147-2,18	{Recorded twice}
	<i>Cymbopogon ambiguus</i>	+	<1 %	1.10 m		see 148-1
	<i>Euphorbia</i> sp. (site 1163)	+	<1 %	20-25 cm	W147-11	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	+	<1 %	25 cm	W147-15	
	<i>Gomphrena cunninghamii</i>	+	<1 %		W147-3	
	<i>Gossypium australe</i> (Whim Creek form)	+	<1 %	45-90 cm	W147-10	Gos aff aus
	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	<2	1-5%	1-1.5 m		
	<i>Indigofera monophylla</i> (Burrup form)	+	<1 %	30 cm	W147-5	
	<i>Ipomoea muelleri</i>	+	<1 %	1 m	W147-4	creeper, spreading
	<i>Phyllanthus maderaspatensis</i> var. <i>angustifolius</i>	+	<1 %	25 cm	W147-8,14	maderaspatensis?{Recor
	<i>Polycarpaea longiflora</i> (Whim Creek form, WC147-7)	+	<1 %	35 cm	W147-7	?white
	<i>Rhynchosia</i> cf. <i>minima</i>	15%	10-25%	2 jm	W147-6	creeper, spreading
	<i>Solanum petrophilum</i>	+	<1 %	10 cm	W147-13	juvenile
	<i>Tephrosia</i> sp.B Kimberley Flora(C.A.Gardner 7300)	+	<1 %	80 cm	W147-9	orange, terete leaves
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	+	<1 %	45 cm	W147-16	
	<i>Triodia wiseana</i>	80%	>75%	40-50 cm	W147-1	Tri aff wis
	<i>Triumfetta appendiculata</i> (Whim Creek form)	+	<1 %	35 cm	W147-17	woody
	<i>Triumfetta clementii</i>	+	<1 %	20 cm	W147-20	sterile

Whim Creek Site W148

Described by VLL **Date** 1/06/00

Location Rockpile above 147, ~ 5km E of Whim Creek Hotel.

Air Photo **Photo** 4 **on Roll** F3 **Video** N **E Photo**

Photo Notes**AMG Zone** 50 593799mE, 7694162mN**Habitat** Rockpile on top of very steep rocky hillslope (W147). Medium-large (30 cm-1m) rocks, rough, often pitted surface, dark brown, blackish brown and red. Rockpile faces NNE.**Soil** Dark reddish brown loam.**Rock Type** see habitat**Vegetation** Terminalia canescens, Ehretia saligna var saligna low open woodland over Aristida nitidula very open tussock grassland.**Veg Condition** Excellent. No weeds.**Fire Age****Notes** Terminalia canescens is 20-40% of tree cover, other species are present but except Ehretia saligna (5%) only one or two (max) of each.**Rock Pile Notes****Species List:**

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Abutilon lepidum	+	<1 %	45 cm	W148-6	
	Acacia ancistrocarpa	+	<1 %	1.25 m	W148-5	
	Amaranthus aff. pallidiflorus (WC148-11)	+	<1 %	20 cm	W148-11	
	Aristida nitidula	<3%	1-5%	70 cm	W148-3	
	Carissa lanceolata	+	<1 %	1.25	W148-13	
	Cassia glutinosa	+	<1 %	80 cm		
	Cassia oligophylla	+	<1 %		W148-8	Sen oli oli, taken as
	Cassia venusta	+	<1 %	25 cm		
	Cymbopogon ambiguus	+	<1 %	1.10 m	W148-1	
	Dichrostachys spicata	+	<1 %	1.10 m		
	Ehretia saligna var. saligna	<2	1-5%	2.25 m	W148-12	
	Flueggea virosa subsp. melanthesoides	+	<1 %	10.5	W148-9	Opposite leaved, small
	Gomphrena cunninghamii	+	<1 %	20 cm		
	Gossypium australe (Whim Creek form)	+	<1 %			Gos aff aus, as per 147
	Hibiscus goldsworthii	+	<1 %	40 cm	W148-4	
	Jasminum didymum subsp. lineare	+	<1 %	45 cm	W148-16	
	Paspalidium tabulatum (Whim Creek form)	+	<1 %	30 cm	W148-2	
	Ptilotus obovatus var. obovatus	+	<1 %	50 cm	W148-7	
	Rhynchosia cf. minima	+	<1 %		n1	As for 147-1
	Scaevola spinescens (narrow form)	+	<1 %	1 m	W148-14	
	Sida rohlenae var. rohlenae	+	<1 %	30 cm	W148-10	S spinescens, taken as
	Terminalia canescens	5-10%	5-10%	1.5-2 m	W148-15	
	Tinospora smilacina	+	<1 %			vine
	Triodia wiseana	+	<1 %	40 cm		As for 147-1

Whim Creek Site W149**Described by** VLL **Date** 1/06/00**Location** Triodia slope approx. 5 km E of Whim Creek Hotel, 1.5 km S of NW Coastal Highway.**Air Photo** **Photo** 5 **on Roll** F3 **Video** N **E Photo****Photo Notes****AMG Zone** 50 593472mE, 7694096mN 593411mE, 7694127mN 593453mE, 7694087mN 593422mE, 7694146mN**Habitat** Westward facing upper hill slope, doesn't appear to retain moisture, very pebbly/stoney with very fine loam, patches of bare stoney soil.**Soil** Red-brown fine loam with dense small pebble and stoney mantle. Pebbles and stones 1-5 cm diameter, mostly stones(?).**Rock Type** Fine-medium red-brown, grey green inside, surface often pitted.**Vegetation** Acacia inaequilatera, Cassia glutinosa scattered shrubs over Triodia epactia, (Triodia wiseana) hummock grassland.**Veg Condition** Excellent, no weeds.

Fire Age >5 years.

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Acacia inaequilatera	+	<1 %	0.3-1 m	W149-5	
	Amaranthus interruptus	+	<1 %	2 cm	W149-2	
	Bulbostylis barbata	+	<1 %	5 cm	W149-10	
	Cassia glutinosa	+	<1 %	1.25 m	W149-4	
	Corchorus laniflorus	+	<1 %	10 cm	W149-12	
	Crotalaria medicaginea (Burrup form; B65-11)	+	<1 %	25 cm	W149-14	
	Dysphania rhadinostachya subsp. rhadinostachya	+	<1 %	15 cm	W149-8	
	Euphorbia aff. australis (B170-4)	+	<1 %	20 cm	W149-7	
	Euphorbia sp. (site 1163)	+	<1 %	20 cm	W149-6	Eup mgr? No name
	Gomphrena cunninghamii	+	<1 %	20 cm		
	Indigofera colutea	+	<1 %	3 cm		
	Iseilema dolichotrichum	+	<1 %		W149-15	
	Paspalidium clementii	+	<1 %	2 cm	W149-1	Was mixed with
	Polycarpha holtzei	+	<1 %	2 cm	W149-9	
	Rhynchosia cf. minima	+	<1 %			As for Site 147
	Sporobolus australasicus	+	<1 %		W149-16	
	Triodia epactia	35-40%	<1 %	25-40 cm	W149-3	
	Triodia wiseana	+	<1 %	30 cm	W149-13	
	Triumfetta clementii	+	<1 %	15 cm	W149-11	

Whim Creek Site W150

Described by VLL **Date** 1/06/00

Location Approximately 10-12 km E of Whim Creek Hotel and approx. 2.5 km S of NW Coastal Highway.

Air Photo **Photo** ? **on Roll** F3 **Video** N **E Photo**

Photo Notes

AMG Zone 50 595684mE, 7694960mN

Habitat Very steep upper rocky slope - rockpile, large scree chunks unevenly scattered down slope, facing NNE.

Soil Dark grey-brown loam - in pockets only.

Rock Type Small to very large chunks of grey-brown rock, grey-green inside - pitted and with small quartz stones embedded.

Vegetation Terminalia canescens low open woodland to low woodland over Scaevola spinescens (narrow form) open shrubland over Aristida nitidula scattered tussock grasses with Trichosanthes cucumerinam, Operculina aequisejala lianes.

Veg Condition Excellent.

Fire Age

Notes

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen	Notes
	Amaranthus interruptus	+	<1 %		W150-15	
	Aristida nitidula	2	1-5%	45 cm		
	Clerodendrum tomentosum	+	<1 %	1.25	W150-2	
	Corchorus laniflorus	+	<1 %		W150-13	
	Cymbopogon ambiguus	+	<1 %		W150-6	
	Cyperus hesperius	+	<1 %		W150-4	
	Dichrostachys spicata	+	<1 %		W150-11	
	Ehretia saligna var. saligna	+	<1 %	2 m		
	Eragrostis cumingii	+	<1 %		W150-16	gully
	Flueggea virosa subsp. melanthesoides	+	<1 %			

<i>Mukia maderaspatana</i>	+	<1 %		W150-10	spreading
<i>Operculina aequisejala</i>	10-20%	10-25%		W150-1	
<i>Paspalidium tabulatum</i> (Whim Creek form)	+	<1 %	45 cm	W150-9	Poaceae
<i>Pterocaulon sphaeranthoides</i> x <i>sphacelatum</i>	+	<1 %		W150-7	
<i>Rhynchosia</i> cf. <i>minima</i>	+	<1 %		W150-14	
<i>Scaevola spinescens</i> (narrow form)	5-10	5-10%	1.25	W150-12	
<i>Sida rohlenae</i> var. <i>rohlenae</i>	+	<1 %		W150-8	
<i>Solanum petrophilum</i>	+	<1 %		W150-3	
<i>Tephrosia</i> sp.B Kimberley Flora(C.A.Gardner 7300)	+	<1 %		W150-17	gully
<i>Terminalia canescens</i>	30-50%	33.3-50%	2-5 m	W150-5	
<i>Tinospora smilacina</i>	+	<1 %			vine, {Recorded twice}
<i>Trichosanthes cucumerina</i>	10-20	10-25%			climbing everywhere
<i>Triodia wiseana</i>	+	<1 %		W150-5	

Whim Creek Site W153

Described by ASW **Date** 1/06/00

Location Approximately 30 km W of Whim Creek on outcrop on W bank of Sherlock River, S of NW Coastal Highway.

Air Photo **Photo** 24 **on Roll** AS **Video** N E **Photo**

Photo Notes

AMG Zone 50 563170mE, 7683267mN 563079mE, 7683320mN

Habitat Rockpile with moderately steep N facing slope.

Soil Red silty clay/pale red-brown loam.

Rock Type Subangular to angular dark red-brown, medium-coarse grained, lots of quartz.

Vegetation *Terminalia canescens*, (*Ehretia saligna* var. *saligna*) low open woodland to low woodland over *Scaevola spinescens* (narrow form) open shrubland over **Cenchrus ciliaris*, (*Triodia epactia*) very open tussock/hummock grassland to open tussock/hummock grassland.

Veg Condition Poor - very poor; almost all native herb layer understorey has been replaced by **Cenchrus ciliaris*. Trees and understorey OK but few spp.

Fire Age

Notes Exclude edges (lower, side and top margins). *Terminalia canescens* is patchy.

Rock Pile Notes

Species List:

Quad	Name	Cover	C Class	Height	Specimen Notes
	<i>Achyranthes aspera</i>	+	<1 %	1 m	
	<i>Boerhavia coccinea</i> (form A)	+	<1 %	20 cm	hairy, =W139
	<i>Capparis spinosa</i> var. <i>nummularia</i>	1	1-5%	70 cm	capnumsp, taken as
	<i>Cenchrus ciliaris</i>	>10	10-25%	1 m	
	<i>Commicarpus australis</i>	1	1-5%	1.5 m	
	<i>Ehretia saligna</i> var. <i>saligna</i>	2	1-5%	3.5 m	
	<i>Eremophila longifolia</i>	1	1-5%	1.8 m	
	<i>Euphorbia</i> sp. (site 1163)	+	<1 %	30 cm	pale green, =W139
	<i>Ficus opposita</i>	1	1-5%	1.8 m	
	<i>Gomphrena cunninghamii</i>	+	<1 %		
	<i>Mukia maderaspatana</i>	+	<1 %	20 cm	=W139-3
	<i>Scaevola spinescens</i> (narrow form)	2-5	1-5%	2 m	
	<i>Terminalia canescens</i>	5-10	5-10%	5 m	
	<i>Tinospora smilacina</i>	+	<1 %		
	<i>Triodia epactia</i>	+	<1 %	30 cm	

APPENDIX 2: PHOTOGRAPHS OF THE SITES RECORDED



Quadrat B002B



Quadrat B002A, B002B



Quadrat B006



Quadrat B009



B012



B016



B022



B023



B023



B027



B028



B032



B035



B038 (foreground)



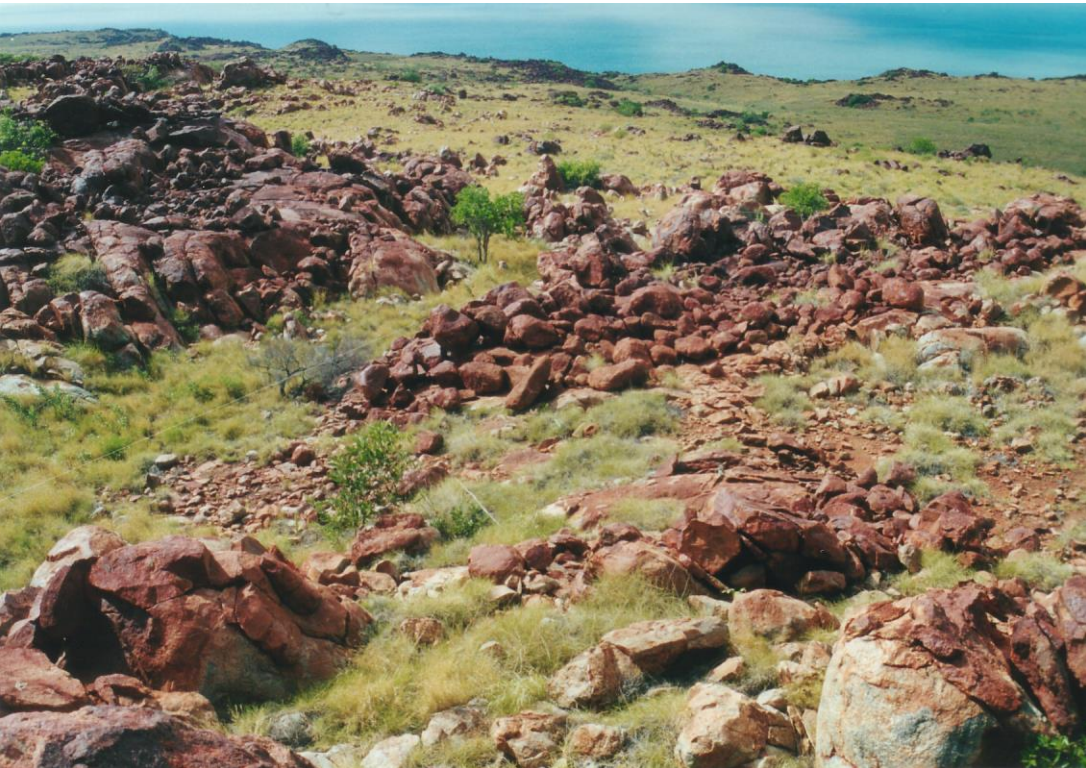
B038 (left centre)



B045 (South)



B045 (South East)



B045 (North East)



B046



B047



B048



B049



B050



B068



B069



B070



B071



B072



B073 (B073A is in centre background)



B073A



B074



B075



B076



B077



B078



B079



B080



B096