

Previous Surveys Flora Sampling Sites

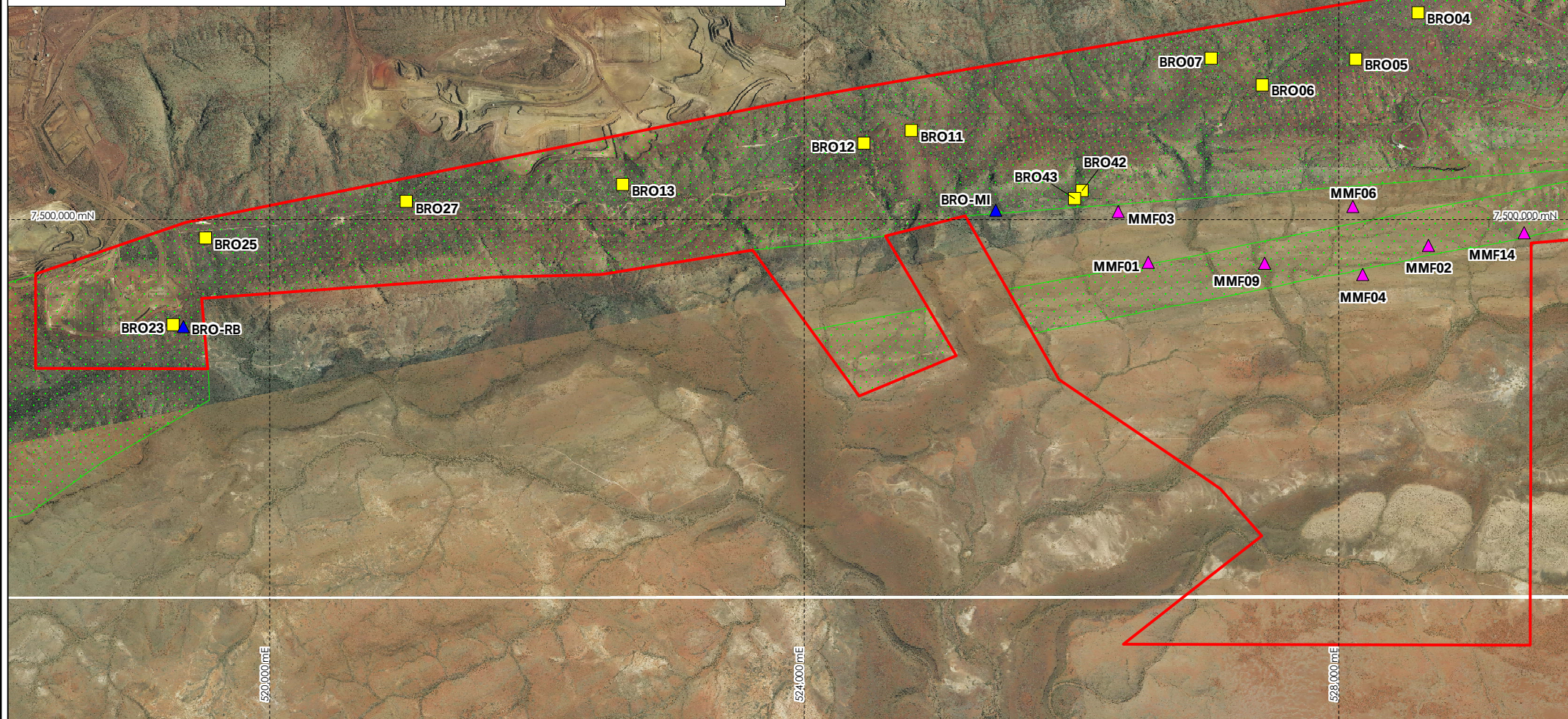
Brockman Syncline 4 Marra Mamba Vegetation and Flora Survey (Biota 2013a)

▲ Quadrat (sampled once)

A Vegetation and Flora Survey of the Brockman Syncline 4 Project Areas, near Tom Price (Biota 2005)

■ Quadrat (sampled twice)

▲ Relevé (sampled once)

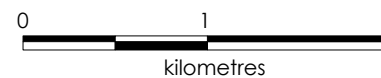


Location Map



Study area

Previous systematic search area



Marra Mamba Flora - Map 1 Historic Survey Effort



Previous Surveys Flora Sampling Sites

Brockman 4 Eastern Edge Native Vegetation Clearing Permit Report (Biota 2014a)

- ▼ Quadrat (sampled once)
- ▼ Relevé (sampled once)

Brockman Syncline 4 Marra Mamba Vegetation and Flora Survey (Biota 2013a)

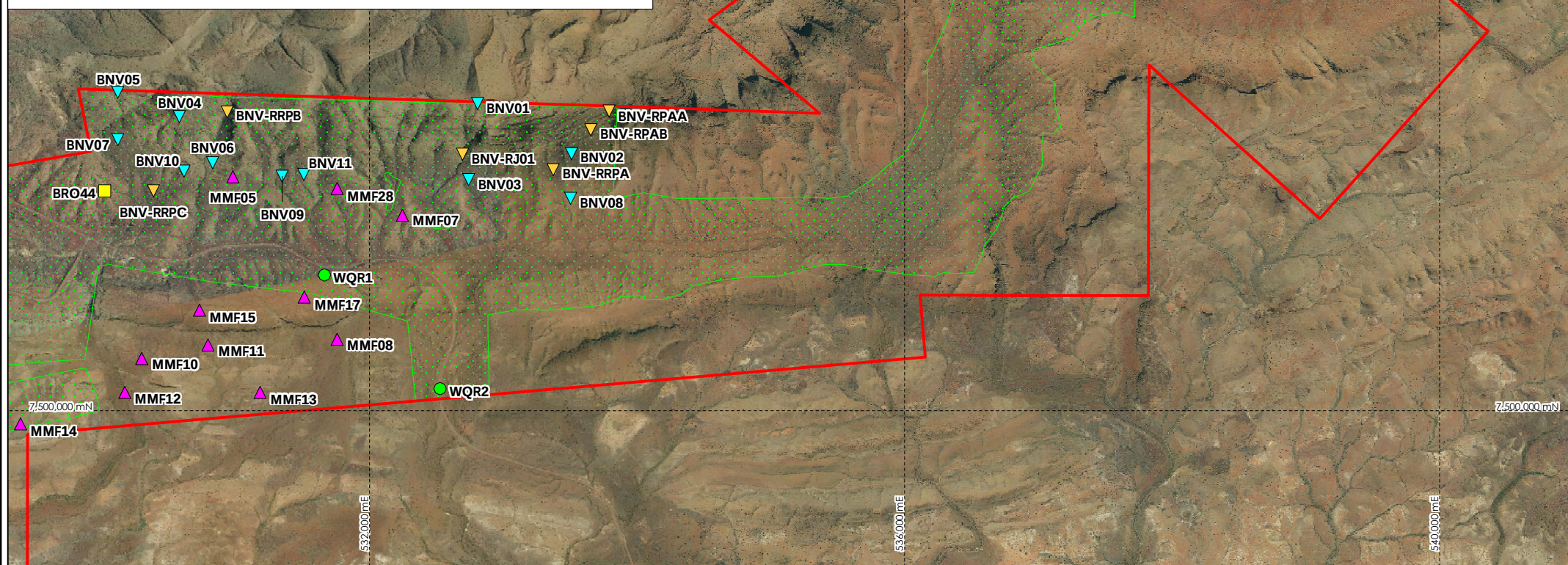
- ▲ Quadrat (sampled once)

A Vegetation and Flora Survey of the White Quartz Road Corridor, near Tom Price (Biota 2007a)

- Quadrat (sampled once)

A Vegetation and Flora Survey of the Brockman Syncline 4 Project Areas, near Tom Price (Biota 2005)

- Quadrat (sampled twice)



Location Map



Study area

Previous systematic search area



0 1 2

kilometres

Marra Mamba Flora - Map 2 Historic Survey Effort



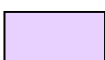
Appendix 5

Vegetation Mapping for the Study Area, Including Priority Flora Locations

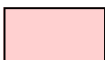
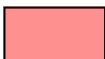


Vegetation of Marra Mamba Study Area

Vegetation of Creeklines and Floodplains

	C1: EcAciCEc	<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i> open woodland over <i>Acacia citrinoviridis</i> low open forest over * <i>Cenchrus ciliaris</i> tussock grassland with <i>Triodia epactia</i> scattered hummock grasses
	C2: ExAciAbTeCEcTHt	<i>Eucalyptus xerothermica</i> open woodland over <i>Acacia citrinoviridis</i> low woodland over <i>Triodia epactia</i> very open hummock grassland with * <i>Cenchrus ciliaris</i> , <i>Themeda triandra</i> tussock grassland
	C3: EIAciAbTe	<i>Acacia citrinoviridis</i> , (<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>) low open woodland over <i>A. bivenosa</i> tall shrubland over <i>Triodia epactia</i> open hummock grassland
	C4: EIAbTe	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Acacia bivenosa</i> shrubland over <i>Triodia epactia</i> hummock grassland
	C5: EIAciAtuAbTe	<i>Acacia citrinoviridis</i> , (<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>) low open woodland over <i>A. tumida</i> var. <i>pilbarensis</i> , <i>A. bivenosa</i> tall shrubland over <i>Triodia epactia</i> open hummock grassland
	C6: EIChAtuPITe	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> , <i>Corymbia hamersleyana</i> scattered low trees over <i>Acacia tumida</i> var. <i>pilbarensis</i> , <i>Petalostylis labicheoides</i> tall open scrub over <i>Triodia epactia</i> open hummock grassland
	C7: EIAciAmoTe	<i>Acacia citrinoviridis</i> , (<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>) low woodland over <i>A. monticola</i> tall shrubland over <i>Triodia epactia</i> open hummock grassland
	C8: EIAmoAmAatTeTw	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Acacia monticola</i> , <i>A. maitlandii</i> , <i>A. atkinsiana</i> tall open scrub over <i>Triodia epactia</i> , <i>T. wiseana</i> open hummock grassland
	C9: AciAaTe	<i>Acacia ancistrocarpa</i> , (<i>A. citrinoviridis</i>) tall open shrubland over <i>Triodia epactia</i> open hummock grassland

Vegetation of Gorges, Gullies and Free Faces

	G1: EICfAciAapGbDpTe	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> , <i>Corymbia ferritcola</i> , <i>Acacia citrinoviridis</i> , <i>A. aptaneura</i> , (<i>Grevillea berryana</i>) low woodland over <i>Dodonaea pachyneura</i> tall open shrubland over <i>Triodia epactia</i> very open hummock grassland
	G2: EICfAprAapDpTeERIm	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> , <i>Corymbia ferritcola</i> , <i>Acacia pruinocarpa</i> , <i>A. aptaneura</i> low open woodland over <i>Dodonaea pachyneura</i> scattered tall shrubs over <i>Triodia epactia</i> very open hummock grassland with <i>Eriachne mucronata</i> open tussock grassland

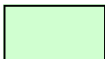
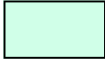


Vegetation of Marra Mamba Study Area

Vegetation of Plains and Broad Valleys

	P1: EITaTlo	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Triodia angusta</i> , <i>T. longiceps</i> hummock grassland
	P2: EIAAbSENSppTbr	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Acacia synchronicia</i> , <i>A. bivenosa</i> , <i>Senna</i> spp. scattered shrubs over <i>Triodia brizoides</i> open hummock grassland
	P3: EICdEgAatAexTw	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> , <i>Corymbia deserticola</i> subsp. <i>deserticola</i> scattered low trees over <i>E. gamophylla</i> scattered low mallees over <i>Acacia atkinsiana</i> , <i>A. exigua</i> open shrubland

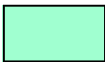
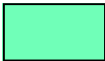
Vegetation of Hills

	H1: EIEgAmTw	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> low open woodland over <i>E. gamophylla</i> low open mallee woodland over <i>Acacia maitlandii</i> open shrubland over <i>Triodia wiseana</i> hummock grassland
	H2: EIAmTw	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Acacia maitlandii</i> shrubland over <i>Triodia wiseana</i> open hummock grassland
	H3: EIAhTw	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Acacia hamersleyensis</i> tall shrubland over <i>Triodia wiseana</i> hummock grassland
	H4: EITbr	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Triodia brizoides</i> hummock grassland
	H5: EITe	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> low open woodland over <i>Triodia epactia</i> open hummock grassland
	H6: EIAciAprTe	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Acacia puinocarpa</i> , <i>A. citrinoviridis</i> tall open shrubland over <i>Triodia epactia</i> open hummock grassland
	H7: EITw	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Triodia wiseana</i> open hummock grassland
	H8: EITwTbt	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Triodia wiseana</i> , (<i>T. basitricha</i>) open hummock grassland
	H9: EIAbTbr	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Acacia bivenosa</i> open shrubland over <i>Triodia brizoides</i> hummock grassland
	H10: AiTbr	<i>Acacia inaequilatera</i> scattered tall shrubs over <i>Triodia brizoides</i> hummock grassland

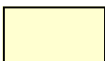
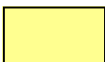


Vegetation of Marra Mamba Study Area

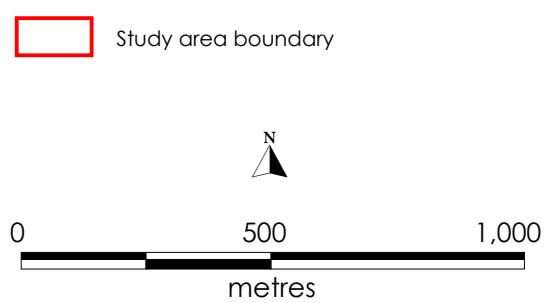
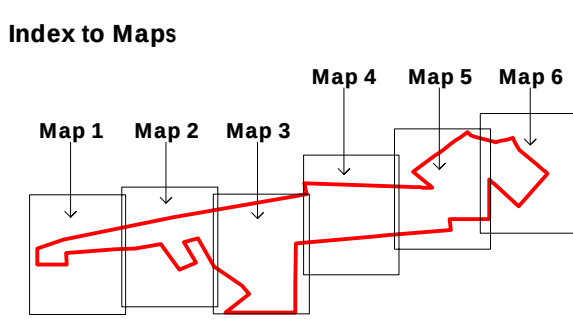
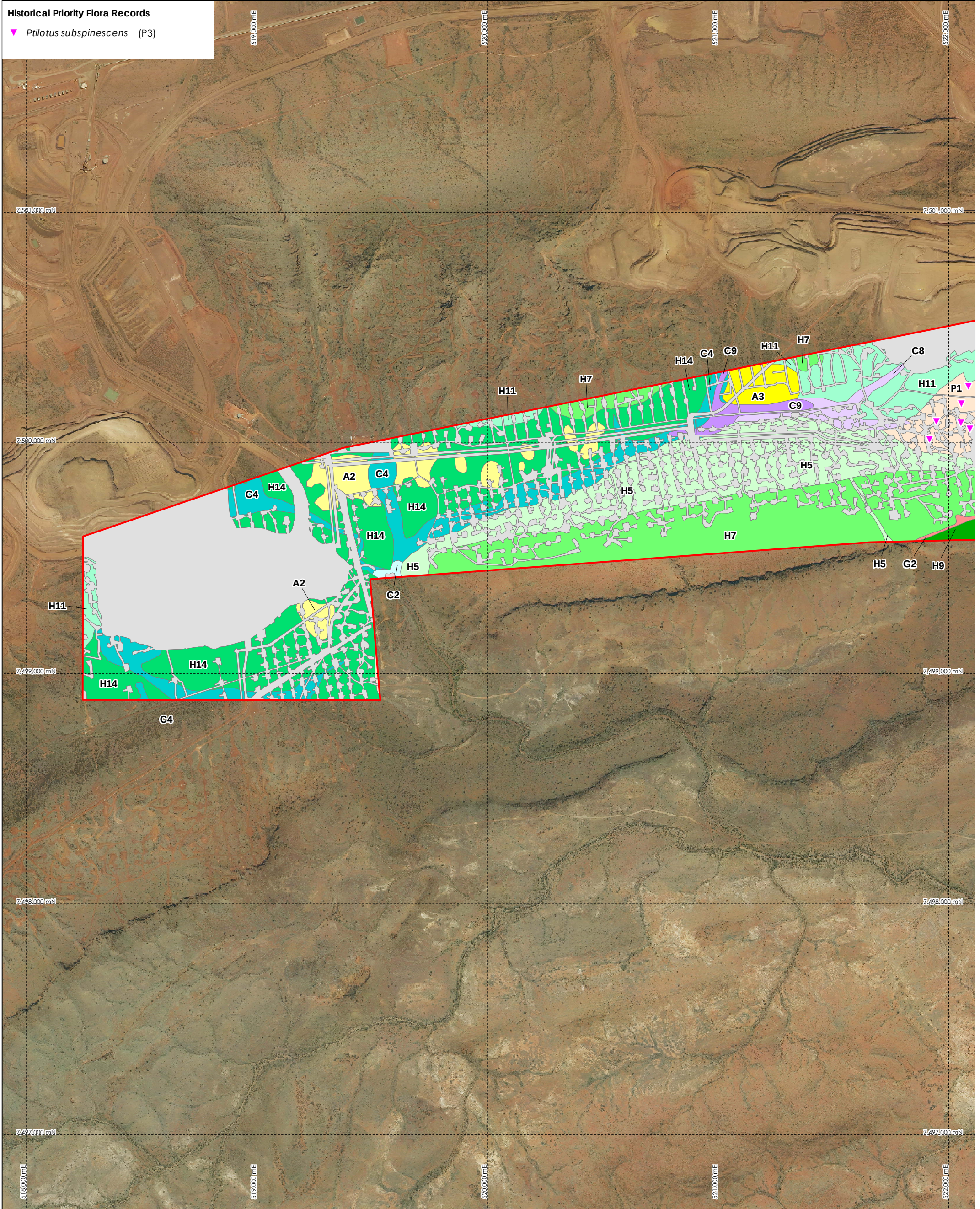
Vegetation of Hills (cont.)

	H11: EIAmAatAexTw	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Acacia maitlandii</i> , <i>A. atkinsiana</i> , <i>A. exigua</i> open shrubland over <i>Triodia wiseana</i> hummock grassland
	H12: EIAiT	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> scattered low trees over <i>Acacia inaequilatera</i> scattered tall shrubs over <i>Triodia wiseana</i> hummock grassland
	H13: AciAbTw	<i>Acacia citrinoviridis</i> tall open shrubland over <i>A. bivenosa</i> open shrubland over <i>Triodia wiseana</i> very open hummock grassland
	H14: AbAeAaTw	<i>Acacia bivenosa</i> , <i>A. exigua</i> , <i>A. ancistrocarpa</i> tall open shrubland over <i>Triodia wiseana</i> hummock grassland
	H15: EsTw	<i>Eucalyptus socialis</i> subsp. <i>eucentrica</i> low open mallee woodland over <i>Triodia wiseana</i> open hummock grassland

Snakewood / Mulga complex

	A1: AxSlfSENsppTlo	<i>Acacia xiphophylla</i> tall shrubland over <i>Sida fibulifera</i> , (<i>Senna artemisioides</i> subsp. <i>oligophylla</i> x subsp. <i>helmsii</i> , <i>Senna</i> sp. Karijini (M.E. Trudgen 10392)) low shrubland over <i>Triodia longiceps</i> scattered hummock grasses
	A2: AxAapTspp	<i>Acacia xiphophylla</i> , (<i>A. aptaneura</i>) tall shrubland over <i>Triodia</i> spp. very open hummock grassland
	A3: AapAayTeTw	<i>Acacia aptaneura</i> , <i>A. ayersiana</i> low woodland over <i>Triodia epactia</i> , <i>T. wiseana</i> open hummock grassland
	A4: AapAciTeTw	<i>Acacia aptaneura</i> , <i>A. citrinoviridis</i> tall shrubland over <i>Triodia epactia</i> , <i>T. wiseana</i> open hummock grassland





**Marra Mamba Flora
Vegetation and
Priority Flora Map 1**

Biota
Environmental
Sciences

▼ *Ptilotus subspinescens* (P3)

Marra Mamba Flora Vegetation and Priority Flora Map 2

Biota
Environmental
Sciences

Scale: 1:15,000

