

APPENDIX R: Vegetation types and vegetation condition within the native vegetation clearing area

Table R-1: Native vegetation types and vegetation condition within the native vegetation clearing area

Abridged native vegetation type	Condition	Area (ha)	Native vegetation type description
Banksia Low Open Woodland (Ecologia Environment 2016)	Excellent	0.11	1a. <i>Banksia attenuata</i> and <i>B. menziesii</i> low open woodland (with scattered <i>Eucalyptus todtiana</i> and <i>Banksia ilicifolia</i>), over <i>Adenanthos cygnorum</i> tall sparse shrubland, over <i>Melaleuca clavifolia</i> , <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i> and/or <i>H. subvaginata</i> low sparse shrubland, over <i>Patersonia occidentalis</i> sparse herbland
			1b. <i>Banksia attenuata</i> and <i>B. menziesii</i> low open woodland (with scattered <i>B. prionotes</i> and <i>Eucalyptus todtiana</i>) over <i>Adenanthos cygnorum</i> tall sparse shrubland, over <i>Eremaea pauciflora</i> var. <i>pauciflora</i> and <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i> low sparse shrubland, over <i>Mesomelaena pseudostygia</i> sparse sedgeland
Banksia Low Open Woodland (inferred W1) (RPS 2023)	Excellent (Inferred)	0.13	This vegetation type was inferred as it was the closest extent to the surveyed vegetation <i>Eucalyptus todtiana</i> , <i>Banksia attenuata</i> , <i>B. menziesii</i> , <i>Nuytsia floribunda</i> low open woodland over <i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> tall sparse shrubland over open mid heathland of <i>Banksia shuttleworthiana</i> , <i>Eremaea pauciflora</i> , <i>Conospermum stoechadis</i> , <i>Conostephium magnum</i> (P4), <i>C. preissii</i> , <i>Hakea ruscifolia</i> , <i>Jacksonia nutans</i> , <i>Lysinema pentapetalum</i> , <i>Pimelea sulphurea</i> , <i>Stirlingia latifolia</i> over low open heathland of <i>Babingtonia grandiflora</i> , <i>Bossiaea eriocarpa</i> , <i>Darwinia sanguinea</i> , <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i> , <i>Petrophile linearis</i> , <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i> over sparse/open forbland including <i>Anigozanthos humilis</i> subsp. <i>humilis</i> , <i>Blancoa canescens</i> , <i>Burchardia congesta</i> , <i>Dasypogon obliquifolius</i> , <i>Patersonia occidentalis</i> , <i>Stylidium purpureum</i> , <i>Trachymene pilosa</i> , <i>Xanthosia huegelii</i> and open sedgeland including <i>Alexgeorgea nitens</i> , <i>Lepidobolus preissianus</i> and <i>Lyginia barbata</i> on grey sandy loam or loamy sand. A variable unit, with one or more of the overstorey species often not present
Banksia Low Open Woodland (RPS 2023)	Excellent	2.56	W1. <i>Eucalyptus todtiana</i> , <i>Banksia attenuata</i> , <i>B. menziesii</i> , <i>Nuytsia floribunda</i> low open woodland over <i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> tall sparse shrubland over open mid heathland of
	Very Good	0.11	<i>Banksia shuttleworthiana</i> , <i>Eremaea pauciflora</i> , <i>Conospermum stoechadis</i> , <i>Conostephium magnum</i> (P4), <i>C. preissii</i> , <i>Hakea ruscifolia</i> , <i>Jacksonia nutans</i> , <i>Lysinema pentapetalum</i> , <i>Pimelea sulphurea</i> , <i>Stirlingia latifolia</i> over low open heathland of <i>Babingtonia grandiflora</i> , <i>Bossiaea eriocarpa</i> , <i>Darwinia sanguinea</i> , <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i> , <i>Petrophile linearis</i> , <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i> over sparse/open forbland including <i>Anigozanthos humilis</i> subsp. <i>humilis</i> , <i>Blancoa canescens</i> , <i>Burchardia congesta</i> , <i>Dasypogon obliquifolius</i> , <i>Patersonia occidentalis</i> , <i>Stylidium purpureum</i> , <i>Trachymene pilosa</i> , <i>Xanthosia huegelii</i> and open sedgeland including <i>Alexgeorgea nitens</i> , <i>Lepidobolus preissianus</i> and <i>Lyginia barbata</i> on grey sandy loam or loamy sand. A variable unit, with one or more of the overstorey species often not present
	Good	0.10	
Banksia Low Open Woodland (RPS 2023)	Very Good	0.07	W2. <i>Banksia menziesii</i> , <i>B. attenuata</i> , <i>Eucalyptus todtiana</i> low woodland over mid shrubland of <i>Conospermum crassinervium</i> , <i>Conostephium magnum</i> (P4), <i>Eremaea pauciflora</i> , <i>Leptospermum erubescens</i> , <i>Melaleuca ciliosa</i> , <i>Verticordia ovalifolia</i> over low open shrubland of <i>Hibbertia subvaginata</i> , <i>Petrophile linearis</i> and open forbland of <i>Dasypogon obliquifolius</i> , <i>Opercularia vaginata</i> , <i>Lagenophora huegelii</i> , <i>Stylidium</i> spp. on grey sand in swales
Banksia Low Open Woodland (RPS 2023)	Excellent	0.12	W3. <i>Banksia attenuata</i> or <i>Eucalyptus todtiana</i> low open woodland/isolated trees over <i>Allocasuarina humilis</i> , <i>Calothamnus quadrifidus</i> subsp. <i>quadrifidus</i> , <i>Leptospermum erubescens</i> , <i>Xanthorrhoea preissii</i> tall open shrubland over mid shrubland that may include <i>Babingtonia grandiflora</i> , <i>Banksia shuttleworthiana</i> , <i>Calothamnus sanguineus</i> , <i>Conospermum stoechadis</i> , <i>Hakea ruscifolia</i> , <i>Hibbertia hypericoides</i> , <i>Lambertia multiflora</i> var. <i>multiflora</i> , <i>Petrophile shuttleworthiana</i> over <i>Waitzia suaveolens</i> , <i>Anigozanthos humilis</i> , <i>Conostylis setigera</i> open forbland and <i>Mesomelaena pseudostygia</i> open sedgeland on grey sandy clay loam
Banksia Low Open Woodland (Outback Ecology 2014)	Excellent	0.18	Low Open Woodland of <i>Eucalyptus todtiana</i> with <i>Banksia attenuata</i> and <i>B. menziesii</i> and/or <i>B. prionotes</i> over a mixed Myrtaceous and Proteaceous Heath including <i>Allocasuarina humilis</i> , <i>Hakea costata</i> , <i>Melaleuca</i> spp., <i>Eremaea pauciflora</i> , <i>Conospermum stoechadis</i> and <i>Hibbertia hypericoides</i> over an Open Sedgeland/Herbland including <i>Dasypogon obliquifolius</i> , <i>Mesomelaena pseudostygia</i> , <i>Lepidobolus preissianus</i> and/or <i>Conostylis juncea</i> on pale grey sandy flats
	Very Good to Excellent	0.22	
	Good to Very Good - powerline easement*	0.004	
Banksia Low Open Woodland (Outback Ecology 2014)	Very Good to Excellent	0.0004	Low Open Woodland of <i>Eucalyptus todtiana</i> with Low Open Forest of <i>Banksia attenuata</i> , <i>Banksia prionotes</i> and/or <i>Banksia attenuata</i> over patches of Tall Open Shrubland of <i>Adenanthos cygnorum</i> over Open Heath of <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Conospermum stoechadis</i> subsp. <i>sclerophyllum</i> or <i>Conospermum crassinervium</i> over Low Open Shrubland/Sedgeland of <i>Hibbertia hypericoides</i> , <i>Calytrix angulata</i> , <i>Dasypogon obliquifolius</i> , <i>Patersonia occidentalis</i> and <i>Mesomelaena pseudostygia</i> on pale grey sandy flats.
	Good to Very Good	0.08	
	Good to Very Good - powerline easement*	0.03	
Banksia Low Open Woodland (Outback Ecology 2014)	Good to Very Good	0.17	Low Open Woodland of <i>Banksia attenuata</i> and <i>B. menziesii</i> with occasional emergent <i>Banksia ilicifolia</i> over a Tall Open Shrubland to Shrubland of <i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> over a Shrubland of <i>Xanthorrhoea preissii</i> and <i>Leptospermum erubescens</i> over a Low Open Shrubland of <i>Hibbertia subvaginata</i> , <i>Stirlingia latifolia</i> and <i>Conospermum crassinervium</i> , with occasional dominance by <i>Patersonia occidentalis</i> and <i>Phlebocarya ciliata</i> in small depressions on lower slopes of pale grey sand
Banksia Low Open Woodland subtotal		3.88	
<i>Corymbia calophylla</i> Woodland (Outback Ecology 2014)	Degraded	0.22	Open Woodland of <i>Corymbia calophylla</i> with <i>Eucalyptus rudis</i> (in creekline) over tall shrubs of <i>Melaleuca raphiophylla</i> (in creek line) over a disturbed understorey
Corymbia calophylla Woodland subtotal		0.22	
<i>Eucalyptus todtiana</i> Woodland (RPS 2023)	Completely Degraded	0.02	<i>Eucalyptus todtiana</i> woodland/open woodland over pasture species including * <i>Bromus diandrus</i> , * <i>Hordeum leporinum</i> , * <i>Malva pseudolavatera</i> and * <i>Raphanus raphanistrum</i>
Eucalyptus todtiana Woodland subtotal		0.02	
Melaleuca Low Open Woodland (Outback Ecology 2014)	Very Good to Excellent	0.03	Low Open Woodland of <i>Melaleuca preissiana</i> and <i>Eucalyptus todtiana</i> over Tall Shrubs to Tall Open Scrub of <i>Thryptomene mucronulata</i> over an Open heath to Shrubland of <i>Calothamnus quadrifidus</i> and <i>Xanthorrhoea preissii</i> over <i>Jacksonia furcellata</i> and <i>Verticordia densiflora</i> var. <i>densiflora</i> over a herbland of <i>Drosera gigantea</i> , <i>Hyalosperma cotula</i> and <i>Ursinia anthemoides</i> on grey sandy loam
	Good	0.05	

APPENDIX

Abridged native vegetation type	Condition	Area (ha)	Native vegetation type description
Melaleuca Low Open Woodland		0.09	
Proteaceous Heath (RPS 2023)	Excellent	0.83	HL. Tall open shrubland of <i>Xanthorrhoea drummondii</i> (with occasional emergent <i>Eucalyptus tottiana</i> low trees) over mid closed heath including <i>Banksia carlinoides</i> , <i>Banksia fraseri</i> subsp. <i>crebra</i> , <i>B. glaucifolia</i> , <i>B. sphaerocarpa</i> var. <i>sphaerocarpa</i> , <i>B. shuttleworthiana</i> , <i>Calothamnus torulosus</i> , <i>Daviesia epiphyllum</i> , <i>Eremaea pauciflora</i> , <i>Gastrolobium oxylobioides</i> , <i>Hakea auriculata</i> , <i>H. conchifolia</i> , <i>H. incrassata</i> , <i>H. lissocarpha</i> , <i>Lambertia multiflora</i> var. <i>multiflora</i> , <i>Melaleuca clavifolia</i> , <i>M. trichophylla</i> and <i>Petrophile shuttleworthiana</i> , <i>P. striata</i> over low open heath of <i>Babingtonia grandiflora</i> , <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i> , <i>Stenanthemum reissekii</i> , <i>Trymalium ledifolium</i> over open sedgeland including <i>Caustis dioica</i> , <i>Ecdeiocolea monostachya</i> , <i>Lepidosperma pubisquameum</i> , <i>Mesomelaena pseudostygia</i> , <i>Tetraria octandra</i> , open forbland including <i>Conostylis setigera</i> subsp. <i>setigera</i> , <i>Haemodorum venosum</i> , <i>Orianthera spermacoea</i> , <i>Podotheca gnaphalioides</i> , with isolated grasses of <i>Austrostipa compressa</i> , <i>A. hemipogon</i> , <i>Neurachne alopecuroidea</i> on lateritic gravel and shallow grey sandy loam or loam over laterite
	Good	0.08	
	Completely Degraded	0.04	
Proteaceous Heath (RPS 2023)	Degraded	0.15	HLd. <i>Hakea auriculata</i> , <i>H. lissocarpha</i> , <i>Petrophile shuttleworthiana</i> , <i>Xanthorrhoea drummondii</i> mid open/sparse heathland over <i>*Avena barbata</i> , <i>*Briza maxima</i> , <i>Neurachne alopecuroidea</i> , <i>Rytidosperma setaceum</i> open grassland, <i>Haemodorum venosum</i> , <i>Opercularia vaginata</i> , <i>Podotheca gnaphalioides</i> , <i>Ptilotus polystachyus</i> , <i>*Ursinia anthemoides</i> forbland and <i>Caustis dioica</i> , <i>Lepidosperma tenue</i> , <i>Mesomelaena pseudostygia</i> , <i>Schoenus caespititius</i> sparse sedgeland on exposed laterite (a variable unit, depending on the degree of degradation)
Proteaceous Heath (Outback Ecology 2014)	Excellent	0.11	Proteaceous Heath (1). Scattered <i>Nuytsia floribunda</i> with Open Shrubland of <i>Xanthorrhoea ?drummondii</i> and <i>Allocasuarina humilis</i> over closed Proteaceous Heath including species such as <i>Petrophile shuttleworthiana</i> , <i>Banksia sphaerocarpa</i> var. <i>sphaerocarpa</i> , <i>Calothamnus hirsutus</i> , <i>Eremaea pauciflora</i> var. <i>ionchophylla</i> , <i>Banksia glaucifolia</i> , <i>Beaufortia bracteosa</i> , <i>Banksia shuttleworthiana</i> , <i>Hakea conchifolia</i> , <i>Hakea incrassata</i> , <i>Melaleuca clavifolia</i> , <i>Melaleuca trichophylla</i> and <i>Lambertia multiflora</i> var. <i>multiflora</i> over Open Low Heath of <i>Hibbertia hypericoides</i> , <i>Gastrolobium oxylobioides</i> , <i>Daviesia nudiflora</i> over Sedgeland/Herbland of species including <i>Tetraria octandra</i> , <i>Conostylis teretifolia</i> subsp. <i>teretifolia</i> , <i>Chordifex sinuosus</i> , <i>Mesomelaena pseudostygia</i> and <i>Schoenus clandestinus</i> with <i>Austrostipa compressa</i> /hemipogon on lateritic sandy hilltops
Proteaceous Heath (inferred) (Outback Ecology 2014)	Excellent (inferred)	0.01	
Proteaceous Heath (Outback Ecology 2014)	Excellent	0.002	Proteaceous Heath (2). Open Heath of <i>Banksia candolleana</i> and <i>Allocasuarina humilis</i> over Closed Heathland of <i>Lambertia multiflora</i> var. <i>multiflora</i> , <i>Petrophila macrostachya</i> , <i>Hakea spathulata</i> , <i>Hakea incrassata</i> , <i>Xanthorrhoea drummondii</i> , <i>Calothamnus hirsutus</i> over Open Low Heath of <i>Gastrolobium oxylobioides</i> , <i>Patersonia occidentalis</i> over Open Sedgeland of <i>Mesomelaena pseudostygia</i> and <i>Schoenus clandestinus</i>
Proteaceous Heath subtotal		1.21	
Cleared (RPS 2023, Outback Ecology 2013)	Cleared	0.09	A section of planted trees within the indicative disturbance area that had not been previously surveyed was reviewed to determine if the trees were native vegetation or planted (RPS and Tilt Renewables 2023). The review found that the planted trees were primarily planted pine trees (at least 10) and one planted non-endemic Eucalypt tree. The planted vegetation is not considered native vegetation. However, native flora species were observed beneath the pine trees, including the yellow flowering prickly moses (<i>Acacia pulchella</i>), Grass tree (<i>Xanthorrhoea preissii</i>) and a proteaceous shrub possibly a <i>Petrophile</i> . To address the presence of native vegetation beneath the planted pine trees, the pine trees' canopy has been included in the native vegetation clearing area.
Planted tree canopy with native species underneath subtotal		0.09	
Total		5.5	