

Appendix J Ecological Survey Field Sheets

PV Power Station - Quaternary Sites

Structure terms derived from Neldner, V.J., Wilson, B.A., Dillewaard, H.A., Ryan, T.S. and Butler, D.W. (2017) Methodology for Survey and Mapping of Regional Ecosystems and Vegetation Communities in Queensland.							
Version 4.0. Updated May 2017. Queensland Herbarium, Queensland Department of Science, Information Technology and Innovation, Brisbane.							
Taxon nomenclature in accordance with Census of the Queensland Flora 2019. Brown GK & Bostock PD. 2019. Queensland Department of Environment and Science, Queensland Government.							
Way point	Layer	Estimated Canopy Cover	Estimated Canopy Height (metres)	Dominant or Codominant species	Subdominant species	Associated species	Structure
1280	T1	sparse	18-24	Eucalyptus crebra			woodland
	T2	very sparse	12-18	Eucalyptus crebra			
1281	T1	mid dense	18-24	Eucalyptus crebra		Angophora leiocarpa	open forest
	T2	sparse to mid dense	12-18	Eucalyptus crebra	Callitris glaucophylla	Allocasuarina luehmannii	
1282	Emergent		to 20m	Eucalyptus crebra			closed shrubland
	S1	dense	1-2	Acacia triptera			
1284	T1	mid dense	14-18	Eucalyptus crebra		Angophora leiocarpa	open forest
	T2	sparse	8-12	Callitris glaucophylla, Allocasuarina luehmannii			
1289	T1	very sparse	12-18	Eucalyptus populneus, Eucalyptus crebra			open woodland
	T2	sparse to mid dense	8-12	Allocasuarina luehmannii	T1 species, Callitris glaucophylla		
222	T1	very sparse to sparse	18-24	Eucalyptus populneus, Eucalyptus crebra		Eucalyptus tereticornis	open woodland to woodland
	T2	sparse	12-18	Allocasuarina luehmannii	Callitris glaucophylla	T1 species	
1290	T1	very sparse	12-16	Eucalyptus crebra	Eucalyptus populneus		open woodland
	T2	mid dense	6-12	Allocasuarina luehmannii	Callitris glaucophylla	T1 species	
1291	T1	very sparse	14-18	Eucalyptus populneus			open woodland
	T2	sparse	8-12	Callitris glaucophylla		T1 species, Allocasuarina luehmannii	
1293	T1	sparse	12-18	Eucalyptus crebra		Callitris glaucophylla	woodland
	T2	sparse	6-12	T1 species, Allocasuarina luehmannii			
1294	T1	mid dense	10-16	Eucalyptus crebra			open forest
	T2	mid dense	6-10	Allocasuarina luehmannii		T1 species, Callitris glaucophylla	
1295	T1	sparse to mid dense	12-18	Eucalyptus crebra			woodland to open forest
	T2	mid dense	6-12	Allocasuarina luehmannii		T1 species, Callitris glaucophylla	
1296	T1	very sparse	14-20	Eucalyptus crebra	Angophora leiocarpa		open woodland
	T2	absent					
1297	T1	mid dense	18-26	Eucalyptus crebra			open forest
	T2	sparse	12-18	T1 species		Callitris glaucophylla	
1300	T1	very sparse	12-18	Eucalyptus crebra, Callitris glaucophylla			open woodland
	T2	mid dense	6-12	Callitris glaucophylla, Allocasuarina luehmannii		Eucalyptus crebra	
1301	T1	sparse	12-16	Eucalyptus populneus		Callitris glaucophylla, Allocasuarina luehmannii	woodland
	T2	sparse to mid dense	8-12	Callitris glaucophylla, Allocasuarina luehmannii	Eucalyptus populneus		
1302	T1	sparse	16-20	Angophora leiocarpa		Eucalyptus crebra	woodland
	T2	mid dense	10-16	Allocasuarina luehmannii	Angophora leiocarpa, Callitris glaucophylla		
1303	T1	sparse	18-26	Eucalyptus crebra			woodland
	T2	mid dense	12-18	Callitris glaucophylla	T1 species		
1306	T1	sparse	14-20	Eucalyptus crebra			woodland
	T2	sparse to mid dense	8-14	Callitris glaucophylla, Allocasuarina luehmannii		Eucalyptus crebra	
1307	T1	very sparse	10-14	Eucalyptus crebra, Callitris glaucophylla			open woodland
	T2	sparse	6-10	Callitris glaucophylla	Allocasuarina luehmannii	Eucalyptus crebra	
1308	T1	sparse	14-18	Eucalyptus crebra		Callitris glaucophylla	woodland
	T2	sparse to mid dense	8-14	T1 species		Allocasuarina luehmannii	

Access Corridor - Quaternary Sites

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2654°, 150.8785° (GDA 94)	
Date: 2021-05-24; 11:11	Assessor: BM
Site No: Q1	Survey type: quaternary survey
Slope: very gentle (1-2°)	Aspect: east
Landform: plains	Geology: fine Sedimentary
Soils	
Soil texture: clay,sand	Soil colour: pale,whitish
Disturbances	
Disturbance observed: roads	
Erosion (% site affected): None detected	
Fire scars: no	
Vegetation	
Mapped RE: non-remnant/non-remnant, (BD status: NC, VM status: non-remnant/non-remnant)	
Verified RE: narrow strip of RE 11.5.1 either side of road (BD status: NC, VM status: LC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: remnant
Dieback (%): 1-10	Health: good
EDL Height (m): 16	EDL Cover (%): 20
Dominant T1 species: <i>Eucalyptus populnea</i> (A), <i>Eucalyptus crebra</i> x <i>Eucalyptus populnea</i> (O), <i>Callitris glaucophylla</i> (F)	
Dominant T2 species: <i>Allocasuarina luehmannii</i> (D)	
Dominant S1/S2 species: <i>Geijera parviflora</i> (F), <i>Callitris glaucophylla</i> (F), <i>Pittosporum angustifolium</i> (O)	
Dominant ground species: <i>Eriochloa pseudoacrotricha</i> (O), <i>Einadia polygonoides</i> (O), <i>Eragrostis leptostachya</i> , <i>Glandularia aristigera</i> * (O), <i>Sporobolus creber</i> (O), <i>Chloris ventricosa</i> (O), <i>Paspalidium</i> sp. (F), <i>Cymbopogon refractus</i> (O), <i>Enteropogon acicularis</i> (F), <i>Dysphania carinata</i> (O), <i>Aristida jerichoensis</i> (O), <i>Dinebra decipiens</i> (F), <i>Solanum americanum</i> * (O), <i>Solanum ellipticum</i> (F), <i>Bothriochloa decipiens</i> var. <i>decipiens</i> (O), <i>Megathyrsus maximus</i> * (F), <i>Gomphrena celosioides</i> * (O), <i>Eragrostis trichophora</i> * (O), <i>Calandrinia pickeringii</i> (O), <i>Einadia nutans</i> (F), <i>Eremophila debilis</i> (O)	
Comments: Narrow strip either side of the road 11.5.1a	



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.26160°, 150.8691° (GDA 94)	
Date: 2021-05-24; 11:52	Assessor: BM
Site No: Q2	Survey type: quaternary survey
Slope: very gentle (1-2°)	Aspect: east
Landform: plains	Geology: fine Sedimentary
Soils	
Soil texture: sand,clay	Soil colour: pale,brown
Disturbances	
Disturbance observed: roads	
Erosion (% site affected): None detected	
Fire scars: no	
Vegetation	
Mapped RE: non-remnant/non-remnant, (BD status: NC, VM status: non-remnant/non-remnant)	
Verified RE: narrow strip of RE 11.5.1 either side of road (BD status: NC, VM status: LC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: remnant
Dieback (%): 1-10	Health: good
EDL Height (m): 18	EDL Cover (%): 20
Dominant T1 species: <i>Eucalyptus crebra</i> (D)	
Dominant T2 species: <i>Allocasuarina luehmannii</i> (D)	
Dominant S1/S2 species: <i>Allocasuarina luehmannii</i> (F), <i>Callitris glaucophylla</i> (O), <i>Lysiana exocarpi</i> subsp. <i>tenuis</i> (O)	
Dominant ground species: <i>Einadia hastata</i> (O), <i>Lomandra multiflora</i> (O), <i>Dianella revoluta</i> (F), <i>Enchylaena tomentosa</i> (O), <i>Melinis repens</i> * (F), <i>Aristida jerichoensis</i> (O)	
Comments: Narrow strip either side of the road	



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2580°, 150.8607° (GDA 94)	
Date: 2021-05-24; 12:12	Assessor: BM
Site No: Q3	Survey type: quaternary survey
Slope: gentle incline (3-6°)	Aspect: east
Landform: hillslope	Geology: fine Sedimentary
Soils	
Soil texture: loam,gravel	Soil colour: brown,red
Disturbances	
Disturbance observed: roads	
Erosion (% site affected): None detected	
Fire scars: no	
Vegetation	
Mapped RE: 11.7.4/11.5.1, (BD status: NC/NC, VM status: remnant least-concern)	
Verified RE: 11.7.4 (BD status: NC, VM status: NC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: remnant
Dieback (%): 1-10	Health: good
EDL Height (m): 20	EDL Cover (%): 35
Dominant T1 species: <i>Eucalyptus crebra</i> (D), <i>Corymbia trachyphloia</i> (O)	
Dominant T2 species: <i>Eucalyptus exserta</i> (O), <i>Callitris glaucophylla</i> (F)	
Dominant S1/S2 species: <i>Allocasuarina inophloia</i> (O), <i>Acacia crassa</i> subsp. <i>crassa</i> (F), <i>Acacia conferta</i> (O)	
Dominant ground species: <i>Entolasia stricta</i> (D), <i>Digitaria ramularis</i> (F), <i>Cheilanthes sieberi</i> (F), <i>Einadia hastata</i> (F), <i>Calotis dentex</i> (F), <i>Aristida calycina</i> (O), <i>Panicum simile</i> (O)	



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2554°, 150.8541° (GDA 94)	
Date: 2021-05-24; 12:42	Assessor: BM
Site No: Q4	Survey type: quaternary survey
Slope: gentle incline (3-6°)	Aspect: west
Landform: plains	Geology: fine Sedimentary
Soils	
Soil texture: sand	Soil colour: pale,brown
Disturbances	
Disturbance observed: roads	
Erosion (% site affected): None detected	
Fire scars: no	
Vegetation	
Mapped RE: non-remnant/non-remnant, (BD status: NC, VM status: non-remnant/non-remnant)	
Verified RE: 11.5.1, (BD status: NC, VM status: LC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: remnant
Dieback (%): 1-10	Health: good
EDL Height (m): 17	EDL Cover (%): 30
Dominant T1 species: <i>Eucalyptus crebra</i> (A), <i>Eucalyptus populnea</i> (F)	
Dominant T2 species: <i>Allocasuarina luehmannii</i> (D), <i>Callitris glaucophylla</i> (O)	
Dominant S1/S2 species: <i>Allocasuarina luehmannii</i> (D)	
Dominant ground species: <i>Calandrinia pickeringii</i> (A), <i>Eragrostis sororia</i> (F), <i>Panicum simile</i> (A), <i>Lomandra</i> sp. (F), <i>Paspalidium</i> sp. (F), <i>Solanum ellipticum</i> (F), <i>Aristida caput-medusae</i> (O), <i>Fimbristylis dichotoma</i> , <i>Aristida</i> sp. (O), <i>Eriochloa pseudoacrotricha</i> (O), <i>Chloris ventricosa</i> (O), <i>Eragrostis</i> sp., <i>Cheilanthes sieberi</i> (O), <i>Eremophila debilis</i> (O), <i>Eragrostis curvula*</i> (O)	



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2549°, 150.8533° (GDA 94)

Date: 2021-05-24; 13:03

Assessor: BM

Site No: Q5

Survey type: quaternary survey

Slope: very gentle (1-2°)

Aspect: south-west

Landform: stream

Geology: alluvial

Soils

Soil texture: sand,silt

Soil colour: brown,pale

Disturbances

Disturbance observed: roads

Erosion (% site affected): None detected

Fire scars: no

Vegetation

Mapped RE: non-remnant/non-remnant, (BD status: NC, VM status: non-remnant/non-remnant)

Verified RE: 11.3.27, (BD status: OC, VM status: LC)

Verified TEC: Not a TEC

Dominant stratum: tree

Vegetation status: remnant

Dieback (%): 11-25

Health: good

EDL Height (m): 20

EDL Cover (%): 50

Dominant T1 species: *Eucalyptus tereticornis* subsp. *tereticornis* (D), *Eucalyptus crebra* (O), *Angophora leiocarpa* (O)

Dominant T2 species: *Angophora floribunda* (O)

Dominant S1/S2 species: *Acacia crassa* subsp. *crassa* (O), *Acacia spectabilis* (O)

Dominant ground species: *Eleocharis philippinensis* (O), *Eleocharis blakeana* (D), *Lobelia purpurascens* (F), *Cyperus betchei* (F), *Paspalum dilatatum** (O), *Walwhalleya subxerophila* (F), *Diplachne fusca* var. *fusca* (O), *Centipeda minima* subsp. *minima* (O), *Eragrostis elongata* (F)

Comments: Small section on drainage approx 70 m wide



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2544°, 150.8506° (GDA 94)	
Date: 2021-05-24; 13:41	Assessor: BM
Site No: Q6	Survey type: quaternary survey
Slope: very gentle (1-2°)	Aspect: south
Landform: plains	Geology: fine Sedimentary
Soils	
Soil texture: sand,silt,loam	Soil colour: grey,brown,pale
Disturbances	
Disturbance observed: roads	
Erosion (% site affected): none detected	
Fire scars: no	
Vegetation	
Mapped RE: 11.5.4/11.3.25 (BD status: NC/OC, VM status: remnant least-concern)	
Verified RE: 11.5.4, (BD status: NC, VM status: LC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: remnant
Dieback (%): 1-10	Health: good
EDL Height (m): 19	EDL Cover (%): 60
Dominant T1 species: <i>Callitris glaucophylla</i> (D), <i>Eucalyptus tereticornis</i> subsp. <i>tereticornis</i> (F), <i>Angophora leiocarpa</i> (O), <i>Angophora floribunda</i> (O)	
Dominant T2 species: <i>Allocasuarina luehmannii</i> (A)	
Dominant S1/S2 species: <i>Allocasuarina luehmannii</i> (A), <i>Acacia crassa</i> subsp. <i>crassa</i> (O), <i>Acacia spectabilis</i> (O), <i>Acacia leiocalyx</i> subsp. <i>leiocalyx</i> (O)	
Dominant ground species: <i>Cheilanthes distans</i> (F), <i>Cheilanthes sieberi</i> (A), <i>Eragrostis sororia</i> (A), <i>Dianella caerulea</i> (F), <i>Eragrostis brownii</i> (F), <i>Fimbristylis depauperata</i> (F), <i>Calandrinia pickeringii</i> (F), <i>Calotis dentex</i> (F), <i>Cyanthillium cinereum</i> (O), <i>Melinis repens</i> * (F)	



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2542°, 150.8493° (GDA 94)	
Date: 2021-05-24; 14:04	Assessor: BM
Site No: Q7	Survey type: quaternary survey
Slope: gentle incline (3-6°)	Aspect: north-east
Landform: stream	Geology: alluvial
Soils	
Soil texture: sand,gravel	Soil colour: brown
Disturbances	
Disturbance observed: road/track	
Erosion (% site affected): none detected	
Fire scars: no	
Vegetation	
Mapped RE: 11.5.4/11.3.25, (BD status: NC/OC, VM status: remnant least-concern)	
Verified RE: 11.3.25, (BD status: OC, VM status: LC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: remnant
Dieback (%): 1-10	Health: average
EDL Height (m): 16	EDL Cover (%): 25
Dominant T1 species: <i>Eucalyptus tereticornis</i> subsp. <i>tereticornis</i> (A), <i>Angophora floribunda</i> (A), <i>Angophora leiocarpa</i> (O), <i>Callitris glaucophylla</i> (F)	
Dominant T2 species: <i>Allocasuarina luehmannii</i> (F), <i>Callitris endlicheri</i> (O)	
Dominant S1/S2 species: <i>Acacia leiocalyx</i> subsp. <i>leiocalyx</i> (O), <i>Leptospermum polygalifolium</i> (O), <i>Acacia conferta</i> (O)	
Dominant ground species: <i>Bothriochloa bladhii</i> subsp. <i>bladhii</i> (F), <i>Leersia hexandra</i> (F), <i>Megathyrsus maximus</i> var. <i>maximus</i> * (F), <i>Arundinella nepalensis</i> (A)	
Comments: Scoured through to laterite	



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2526°, 150.8428° (GDA 94)	
Date: 2021-05-24; 14:31	Assessor: BM
Site No: Q8	Survey type: quaternary survey
Slope: gentle incline (3-6°)	Aspect: east
Landform: plains	Geology: fine Sedimentary
Soils	
Soil texture: sand,loam	Soil colour: brown,pale
Disturbances	
Disturbance observed: road	
Erosion (% site affected): none detected	
Fire scars: no	
Vegetation	
Mapped RE: 11.7.4/11.7.5, (BD status: NC/NC, VM status: remnant least-concern)	
Verified RE: 11.5.1, (BD status: NC, VM status: LC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: Remnant
Dieback (%): 1-10	Health: good
EDL Height (m): 17	EDL Cover (%): 25
Dominant T1 species: <i>Eucalyptus crebra</i> (D), <i>Angophora leiocarpa</i> (O)	
Dominant T2 species: <i>Callitris glaucophylla</i> (F), <i>Allcasuarina luehmannii</i> (D)	
Dominant S1/S2 species: <i>Acacia leiocalyx</i> subsp. <i>leiocalyx</i> (F), <i>Opuntia tomentosa</i> * (O)	
Dominant ground species: <i>Fimbristylis depauperata</i> (F), <i>Cheilanthes distans</i> (F), <i>Cheilanthes sieberi</i> (F), <i>Panicum simile</i> (F), <i>Calandrinia pickeringii</i> (F), <i>Eriochloa pseudoacrotricha</i> (O), <i>Eragrostis sororia</i> (A), <i>Eragrostis parviflora</i> (F), <i>Cyanthillium cinereum</i> (O), <i>Eragrostis leptocarpa</i> , <i>Dianella revoluta</i> (O), <i>Aristida calycina</i> (F), <i>Digitaria ramularis</i> (F), <i>Eulalia aurea</i> (O), <i>Cyperus fulvus</i> (F), <i>Sporobolus creber</i> (O), <i>Enteropogon acicularis</i> (O), <i>Chloris ventricosa</i> (O), <i>Dinebra decipiens</i> var. <i>decipiens</i> (O), <i>Solanum ellipticum</i> (O), <i>Synostemon hirtellus</i> (O)	



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2518°, 150.8373° (GDA 94)	
Date: 2021-05-24; 14:52	Assessor: BM
Site No: Q9	Survey type: quaternary survey
Slope: very gentle (1-2°)	Aspect: east
Landform: hillslope	Geology: fine Sedimentary
Soils	
Soil texture: loam	Soil colour: brown
Disturbances	
Disturbance observed: road	
Erosion (% site affected): none detected	
Fire scars: no	
Vegetation	
Mapped RE: 11.7.4/11.7.5, (BD status: NC/NC, VM status: remnant least-concern)	
Verified RE: 11.7.5, (BD status: NC, VM status: LC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: remnant
Dieback (%): 11-25	Health: good
EDL Height (m): 9	EDL Cover (%): 25
Dominant T1 species: <i>Eucalyptus exserta</i> (F), <i>Eucalyptus crebra</i> (O)	
Dominant S1/S2 species: <i>Acacia triptera</i> (D)	
Dominant ground species: <i>Digitaria ramularis</i> (D), <i>Eragrostis sororia</i> (F), <i>Cheilanthes sieberi</i> (A), <i>Gonocarpus urceolatus</i> (A), <i>Eragrostis brownii</i> (F), <i>Drosera finlaysoniana</i> (F)	



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2509°, 150.8287° (GDA 94)	
Date: 2021-05-24; 15:24	Assessor: BM
Site No: Q10	Survey type: quaternary survey
Slope: very gentle (1-2°)	Aspect: south-east
Landform: plains	Geology: fine Sedimentary
Soils	
Soil texture: sand,loam	Soil colour: pale,brown
Disturbances	
Disturbance observed:	
Erosion (% site affected): none detected	
Fire scars: yes, fire scar age: not recent, fire scar abundance: , fire scar height (m): 3	
Vegetation	
Mapped RE: 11.9.5, (BD status: E, VM status: remnant endangered)	
Verified RE: 11.5.1, (BD status: NC, VM status: LC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: remnant
Dieback (%): 1-10	Health: good
EDL Height (m): 17	EDL Cover (%): 35
Dominant T1 species: <i>Eucalyptus crebra</i> (A), <i>Callitris glaucophylla</i> (A)	
Dominant T2 species: <i>Allocasuarina luehmannii</i> (D), <i>Callitris glaucophylla</i> (F)	
Dominant S1/S2 species: <i>Acacia leiocalyx</i> subsp. <i>leiocalyx</i> (F), <i>Allocasuarina luehmannii</i> (F)	
Dominant ground species: <i>Eragrostis brownii</i> (A), <i>Eragrostis sororia</i> (A), <i>Aristida calycina</i> (F), <i>Aristida jerichoensis</i> (F), <i>Eragrostis trichophora</i> * (F), <i>Melinis repens</i> * (F), <i>Cheilanthes distans</i> (F), <i>Cyanthillium cinereum</i> (O), <i>Euphorbia drummondii</i> (O), <i>Cheilanthes sieberi</i> (F), <i>Bothriochloa decipiens</i> var. <i>decipiens</i> (O), <i>Cymbopogon refractus</i> (O), <i>Evolvulus alsinoides</i> (O), <i>Enteropogon acicularis</i> (O), <i>Cyperus fulvus</i> (O), <i>Sporobolus creber</i> (O), <i>Solanum ellipticum</i> (F), <i>Dianella brevipedunculata</i> (O), <i>Chloris ventricosa</i> (O), <i>Digitaria divaricatissima</i> (O), <i>Melinis repens</i> * (O), <i>Eragrostis leptostachya</i> (O), <i>Glycine clandestina</i> (O), <i>Rostellularia adscendens</i> (O), <i>Dianella caerulea</i> (O)	



North



East



South



West

FLORA SURVEY ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2569°, 150.8576° (GDA 94)	
Date: 2021-05-27; 09:07	Assessor: BM
Site No: Q11	Survey type: quaternary survey
Slope: gentle incline (3-6°)	Aspect: west
Landform: hillslope	Geology: fine Sedimentary
Soils	
Soil texture: loam,gravel	Soil colour: grey,brown
Disturbances	
Disturbance observed: roads	
Erosion (% site affected): none detected	
Fire scars: no	
Vegetation	
Mapped RE: 11.7.4/11.5.1 (BD status: NC/NC, VM status: remnant least-concern)	
Verified RE: 11.7.4, (BD status: NC, VM status: LC)	
Verified TEC: Not a TEC	
Dominant stratum: tree	Vegetation status: remnant
Dieback (%): 1-10	Health: good
EDL Height (m): 15	EDL Cover (%): 30
Dominant T1 species: <i>Eucalyptus crebra</i> (F), <i>Callitris glaucophylla</i> (F)	
Dominant T2 species: <i>Lysicarpus angustifolius</i> (F), <i>Allocasuarina inophloia</i> (F)	
Dominant S1/S2 species: <i>Acacia triptera</i> (F), <i>Cryptandra amara</i> (O), <i>Acacia crassa</i> subsp. <i>crassa</i> (A), <i>Acacia conferta</i> (F)	
Dominant ground species: <i>Cleistochloa subjuncea</i> (D), <i>Cheilanthes sieberi</i> (A), <i>Calotis dentex</i> (F), <i>Eriachne mucronata</i> (O), <i>Solanum ellipticum</i> (F), <i>Pomax umbellata</i> (O)	



PV Power Station - Fauna Habitat Assessment

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2448°, 150.8321° (GDA 94)

Date: 2021-05-25, 07:31

Assessor: Bn

Site No: FH10

Survey type: fauna habitat

Comments: Edge of small ironstone jump up with scald on top. Potential/likely yakka habitat. Rocky area with large fallen trees. Some burrows under large rocks present.

Fauna habitat within 1 ha

Hollows	mostly dead
No. of hollows	large (>20 cm): not detected medium (11-20 cm): rare (1-5) small (<11 cm): occasional (6-10)
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): abundant (>20)
No. termite mounds	arboreal: rare (1-2) ground: occasional (3-5)
Burrows	common (4-5)
Rock crevices	occasional (11-25 %)
Basking areas	occasional (11-25 %)
Exfoliating bark	occasional (11-25 %)
Cliffs/outcrops	common (26-50 %)
Grassy tussocks	common (26-50 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	common (51-75 %)
Boulders (61 cm-2 m)	common (51-75 %)
Large boulders (>2 m)	common (51-75 %)
Seeding native grass cover	occasional (11-25 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	occasional (11-25 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment

Koala feed trees: yes,

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low (0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): rare (1-5)

Notes: Inadequate density of large HBTs

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? yes

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2376°, 150.8397° (GDA 94)

Date: 2021-05-25, 09:26

Assessor: Bn

Site No: FH11

Survey type: fauna habitat

Comments: Acacia shrub land with emergent crebra and exerta

Fauna habitat within 1 ha

Hollows	mostly alive
No. of hollows	large (>20 cm): not detected
	medium (11-20 cm): not detected
	small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): rare (1-5)
	small (<50 cm): occasional (6-10)
No. termite mounds	arboreal: not detected
	ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	rare (1-10 %)
Exfoliating bark	rare (1-10 %)
Cliffs/outcrops	not detected
Grassy tussocks	rare (1-10 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): rare (1-10 %)
	Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	rare (1-10 %)
Fleshy fruiting plants	not detected
Shrub density (cover)	abundant (>50 %)
Nectar abundance	common (26-50 %)

Koala habitat assessment

Koala feed trees: yes,

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height? yes

Koala habitat score: koala occurrence: low (0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): absent

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? no

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? marginal



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2398°, 150.8362° (GDA 94)

Date: 2021-05-25, 10:38

Assessor: Bn

Site No: FH12

Survey type: fauna habitat

Comments: *E. crebra* forest with scattered *E. tereticornis* and *C. clarksoniana* with dense buloke and callitris.

Fauna habitat within 1 ha

Hollows	mixture
No. of hollows	large (>20 cm): not detected medium (11-20 cm): rare (1-5) small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): not detected small (<50 cm): abundant (>20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	rare (1)
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	common (26-75 %)
Cliffs/outcrops	not detected
Grassy tussocks	rare (1-10 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	rare (1-10 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	common (26-50 %)
Nectar abundance	common (26-50 %)

Koala habitat assessment

Koala feed trees: yes, forest red gum (*E. tereticornis*) – primary (TRC & SRC)

Koala evidence:

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low

(0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): rare (1-5)

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? yes

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2442°, 150.8296° (GDA 94)

Date: 2021-05-25, 12:48

Assessor: Bn

Site No: FH13

Survey type: fauna habitat

Comments: Poplar and crebra forest with scattered callitris and buloke

Fauna habitat within 1 ha

Hollows	mostly dead
No. of hollows	large (>20 cm): not detected medium (11-20 cm): not detected small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): not detected small (<50 cm): common (11-20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	occasional (11-25 %)
Cliffs/outcrops	not detected
Grassy tussocks	abundant (>50 %), height (m): 20
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	common (26-50 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	occasional (11-25 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment

Koala feed trees: yes, poplar box (*E. populnea*) - secondary, narrow-leaved ironbark (*E. crebra*) - secondary

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low

(0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): absent

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? marginal

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2414°, 150.8304° (GDA 94)

Date: 2021-05-25, 14:50

Assessor: Bn

Site No: FH14

Survey type: fauna habitat

Comments: E. crebra and E populnea forest with callitris and buloke

Fauna habitat within 1 ha

Hollows	mixture
No. of hollows	large (>20 cm): not detected medium (11-20 cm): not detected small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): abundant (>20)
No. termite mounds	arboreal: not detected ground: rare (1-2)
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	occasional (11-25 %)
Cliffs/outcrops	not detected
Grassy tussocks	rare (1-10 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): common (51-75 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	occasional (11-25 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	common (26-50 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment

Koala feed trees: yes, poplar box (E. populnea) - secondary, narrow-leaved ironbark (E. crebra) - secondary

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low

(0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): absent

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? marginal

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

Access Corridor - Fauna Habitat Assessment

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2654°, 150.8785° (GDA 94)	
Date: 2021-05-24, 11:10	Assessor: Bn
Site No: FH1	Survey type: fauna habitat

Comments: Poplar box forest with buloke in understory

Fauna habitat within 1 ha

Hollows	mostly alive
No. of hollows	large (>20 cm): not detected medium (11-20 cm): common (11-20) small (<11 cm): abundant (>20)
No. of logs	large (>50 cm): not detected small (<50 cm): common (11-20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	common (26-75 %)
Cliffs/outcrops	not detected
Grassy tussocks	occasional (11-25 %), height (m): 40
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): common (51-75 %) Coarse (2-10 cm diameter): common (51-75 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	common (26-50 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	common (26-50 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment

Koala feed trees: yes, poplar box (<i>E. populnea</i>) - secondary
Koala evidence: none detected
Height of tallest stratum > 5 m? yes
If a shrubland, are emergent food trees > 5 m in height?
Koala habitat score: koala occurrence: low (0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = critical habitat

Greater glider habitat assessment

Eucalypt trees present? yes
Abundance of greater glider suitable hollows (>10 cm): rare (1-5)
Suitable greater glider habitat? marginal

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? marginal
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Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2616°, 150.8691° (GDA 94)

Date: 2021-05-24, 11:53

Assessor: Bn

Site No: FH2

Survey type: fauna habitat

Comments: *E. crebra* forest with buloke in understory

Fauna habitat within 1 ha

Hollows	mostly alive
No. of hollows	large (>20 cm): not detected medium (11-20 cm): not detected small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): not detected small (<50 cm): abundant (>20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	rare (1-10 %)
Cliffs/outcrops	not detected
Grassy tussocks	not detected, height (m):
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	common (26-50 %)
Fleshy fruiting plants	not detected
Shrub density (cover)	not detected
Nectar abundance	common (26-50 %)

Koala habitat assessment

Koala feed trees: yes, narrow -leaved ironbark (*E. crebra*) - secondary

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low

(0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): absent

Notes: Narrow strips either side of road. No suitable HBTs present.

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? marginal

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? marginal



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2581°, 150.8607° (GDA 94)

Date: 2021-05-24, 12:14 Assessor: Bn

Site No: FH3 Survey type: fauna habitat

Comments: E. crebra forest with scattered E. exerta and Callitris in understory

Fauna habitat within 1 ha

Hollows	mostly alive
No. of hollows	large (>20 cm): not detected medium (11-20 cm): rare (1-5) small (<11 cm): common (11-20)
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): common (11-20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	occasional (11-25 %)
Cliffs/outcrops	not detected
Grassy tussocks	common (26-50 %), height (m): 20
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	common (26-50 %)
Fleshy fruiting plants	not detected
Shrub density (cover)	common (26-50 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment

Koala feed trees: yes, narrow -leaved ironbark (E. crebra) - secondary, Queensland peppermint (E. exserta) - secondary
Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low (0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): rare (1-5)

Notes: Inadequate large hollow bearing trees

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? no

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? marginal



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2553°, 150.8542° (GDA 94)

Date: 2021-05-24, 12:46

Assessor: Bn

Site No: FH4

Survey type: fauna habitat

Comments: *E. populnea* and *E. crebra* forest with callitris and buloke in understory

Fauna habitat within 1 ha

Hollows	mostly alive
No. of hollows	large (>20 cm): not detected medium (11-20 cm): rare (1-5) small (<11 cm): common (11-20)
No. of logs	large (>50 cm): not detected small (<50 cm): abundant (>20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	occasional (11-25 %)
Cliffs/outcrops	not detected
Grassy tussocks	not detected, height (m):
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	rare (1-10 %)
Fleshy fruiting plants	not detected
Shrub density (cover)	common (26-50 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment

Koala feed trees: yes, poplar box (*E. populnea*) - secondary, narrow-leaved ironbark (*E. crebra*) - secondary

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Notes: Low density if present

Koala habitat score: koala occurrence: low (0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): rare (1-5)

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? marginal

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2551°, 150.8535° (GDA 94)	
Date: 2021-05-24, 13:14	Assessor: Bn
Site No: FH5	Survey type: fauna habitat
Comments: E. tereticornis forest with ephemeral shallow swamp	

Fauna habitat within 1 ha	
Hollows	mostly alive
No. of hollows	large (>20 cm): not detected medium (11-20 cm): rare (1-5) small (<11 cm): occasional (6-10)
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): common (11-20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	rare (1-10 %)
Cliffs/outcrops	not detected
Grassy tussocks	rare (1-10 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): common (51-75 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	rare (1-10 %)
Fleshy fruiting plants	not detected
Shrub density (cover)	common (26-50 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment
Koala feed trees: yes, forest red gum (E. tereticornis) - primary, narrow-leaved ironbark (E. crebra) - secondary
Koala evidence: scratches,scats
Height of tallest stratum > 5 m? yes
If a shrubland, are emergent food trees > 5 m in height?
Koala habitat score: koala occurrence: high (2), vegetation composition: medium(1), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 9 = critical habitat

Greater glider habitat assessment
Eucalypt trees present? yes
Abundance of greater glider suitable hollows (>10 cm): rare (1-5)
Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment
Suitable glossy black-cockatoo habitat? yes

Grey Snake habitat assessment
Suitable grey Snake habitat? marginal

Golden-tailed gecko habitat assessment
Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2543°, 150.8507° (GDA 94)

Date: 2021-05-24, 13:37 Assessor: Bn

Site No: FH6 Survey type: fauna habitat

Comments: Blue gum, Rough and smoothed barked apple with callitris and buloke in understory

Fauna habitat within 1 ha

Hollows	mostly alive
No. of hollows	large (>20 cm): not detected medium (11-20 cm): rare (1-5) small (<11 cm): occasional (6-10)
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): common (11-20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	occasional (11-25 %)
Cliffs/outcrops	not detected
Grassy tussocks	not detected
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	rare (1-5)
Fleshy fruiting plants	not detected
Shrub density (cover)	common (26-50 %)
Nectar abundance	common (26-50 %)

Koala habitat assessment

Koala feed trees: yes, forest red gum (*E. tereticornis*) - primary

Koala evidence: scratches,scats

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low

(0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): rare (1-5)

Suitable greater glider habitat? no

Squatter pigeon habitat assessment

Patch dominated by eucalyptus, corymbia, acacia or callitris species?

Ground layer consists of patchy, native, perennial tussock grasses (or with a mix of shrubs and forbs)?

Ground layer vegetation cover is less than 33 %?

Suitable Squatter Pigeon habitat?

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? yes

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2527°, 150.8428° (GDA 94)

Date: 2021-05-24, 14:33 Assessor: Bn

Site No: FH7 Survey type: fauna habitat

Comments: Ironbark and smoothed barked apple forest with callitris and buloke in understory

Fauna habitat within 1 ha

Hollows	mostly alive
No. of hollows	large (>20 cm): not detected medium (11-20 cm): not detected small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): not detected small (<50 cm): common (11-20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	common (26-75 %)
Cliffs/outcrops	not detected
Grassy tussocks	rare (1-10 %), height (m): 20
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	rare (1-10 %)
Fleshy fruiting plants	not detected
Shrub density (cover)	common (26-50 %)
Nectar abundance	common (26-50 %)

Koala habitat assessment

Koala feed trees: yes, narrow-leaved ironbark (*E. crebra*) - secondary

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low (0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): absent

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? yes

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2524°, 150.8373° (GDA 94)

Date: 2021-05-24, 15:00

Assessor: Bn

Site No: FH8

Survey type: fauna habitat

Fauna habitat within 1 ha

Hollows	mixture
No. of hollows	large (>20 cm): rare (1-5) medium (11-20 cm): occasional (6-10) small (<11 cm): abundant (>20)
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): common (11-20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	occasional (2-3)
Rock crevices	not detected
Basking areas	rare (1-10 %)
Exfoliating bark	occasional (11-25 %)
Cliffs/outcrops	not detected
Grassy tussocks	common (26-50 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	occasional (11-50 %)
Boulders (61 cm-2 m)	rare (1-10 %)
Large boulders (>2 m)	not detected
Seeding native grass cover	occasional (11-25 %)
Fleshy fruiting plants	not detected
Shrub density (cover)	common (26-50 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment

Koala feed trees: yes, Queensland peppermint (*E. exserta*) - secondary, narrow-leaved ironbark (*E. crebra*) - secondary

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low

(0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): occasional (6-10)

Suitable greater glider habitat? marginal

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? yes

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2509°, 150.8288° (GDA 94)

Date: 2021-05-24, 15:25 Assessor: Bn

Site No: FH9 Survey type: fauna habitat

Comments: *E. crebra* with buloke and callitris in understory

Fauna habitat within 1 ha

Hollows	mostly dead
No. of hollows	large (>20 cm): not detected medium (11-20 cm): not detected small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): not detected small (<50 cm): occasional (6-10)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	common (26-75 %)
Cliffs/outcrops	not detected
Grassy tussocks	common (26-50 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	occasional (11-25 %)
Fleshy fruiting plants	not detected
Shrub density (cover)	common (26-50 %)
Nectar abundance	common (26-50 %)

Koala habitat assessment

Koala feed trees: yes, poplar box (*E. populnea*) – secondary (TRC & SRC), forest red gum (*E. tereticornis*) – primary (TRC & SRC)

Koala evidence: scratches,scats

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low

(0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): rare (1-5)

Notes: Not enough large HBTs

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? yes

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm
 Coordinates: -27.2454°, 150.8224° (GDA 94)
 Date: 2021-05-26, 07:14 Assessor: Bn
 Site No: FH15 Survey type: fauna habitat
 Comments: E. crebra and E. populnea forest with scattered E. tereticornis with callitris and buloke.

Fauna habitat within 1 ha	
Hollows	mixture
No. of hollows	large (>20 cm): not detected medium (11-20 cm): rare (1-5) small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): abundant (>20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	rare (1-10 %)
Exfoliating bark	occasional (11-25 %)
Cliffs/outcrops	not detected
Grassy tussocks	abundant (>50 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): common (51-75 %) Coarse (2-10 cm diameter): common (51-75 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	common (26-50 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	occasional (11-25 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment
 Koala feed trees: yes, forest red gum (E. tereticornis) - primary, poplar box (E. populnea) - secondary, narrow-leaved ironbark (E. crebra) - secondary
 Koala evidence: scratches, scats
 Height of tallest stratum > 5 m? yes
 If a shrubland, are emergent food trees > 5 m in height?
 Notes: Three food trees present. Scats and scratches on nearby blue gums.
Koala habitat score: koala occurrence: high (2), vegetation composition: high (2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 10 = **critical habitat**

Greater glider habitat assessment
 Eucalypt trees present? yes
 Abundance of greater glider suitable hollows (>10 cm): rare (1-5)
 Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment
 Suitable glossy black-cockatoo habitat? marginal

Grey Snake habitat assessment
 Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment
 Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm	
Coordinates: -27.2469°, 150.8269° (GDA 94)	
Date: 2021-05-26, 09:35	Assessor: Bn
Site No: FH16	Survey type: fauna habitat
Comments: E. crebra, E. populnea and E. tereticornis forest with buloke and callitris in understory.	

Fauna habitat within 1 ha	
Hollows	mostly alive
No. of hollows	large (>20 cm): not detected medium (11-20 cm): rare (1-5) small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): not detected small (<50 cm): occasional (6-10)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	occasional (11-25 %)
Cliffs/outcrops	not detected
Grassy tussocks	common (26-50 %), height (m): 0.2
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): occasional (11-50 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	common (26-50 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	common (26-50 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment
 Koala feed trees: yes, forest red gum (E. tereticornis) - primary, poplar box (E. populnea) - secondary, narrow-leaved ironbark (E. crebra) - secondary
 Koala evidence: scratches, scats

Height of tallest stratum > 5 m? yes
 If a shrubland, are emergent food trees > 5 m in height?

Notes: Scratches and scats at nearby blue gums
Koala habitat score: koala occurrence: high (2), vegetation composition: high (2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 10 = **critical habitat**

Greater glider habitat assessment
 Eucalypt trees present? yes
 Abundance of greater glider suitable hollows (>10 cm): rare (1-5)
 Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment
 Suitable glossy black-cockatoo habitat? marginal

Grey Snake habitat assessment
 Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment
 Suitable golden-tailed gecko habitat? marginal



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2401°, 150.8171° (GDA 94)

Date: 2021-05-26, 11:53

Assessor: Bn

Site No: FH17

Survey type: fauna habitat

Comments: E. crebra forest with callitris and buloke

Fauna habitat within 1 ha

Hollows	mostly dead
No. of hollows	large (>20 cm): not detected medium (11-20 cm): not detected small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): abundant (>20)
No. termite mounds	arboreal: not detected ground: rare (1-2)
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	common (26-75 %)
Cliffs/outcrops	not detected
Grassy tussocks	not detected, height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): common (51-75 %) Coarse (2-10 cm diameter): common (51-75 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	common (26-50 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	common (26-50 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment

Koala feed trees: yes, narrow -leaved ironbark (E. crebra) - secondary

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low (0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): absent

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? yes

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2437°, 150.8168° (GDA 94)

Date: 2021-05-26, 13:37

Assessor: Bn

Site No: FH18

Survey type: fauna habitat

Comments: E. crebra forest with buloke and callitris

Fauna habitat within 1 ha

Hollows	mostly dead
No. of hollows	large (>20 cm): not detected medium (11-20 cm): rare (1-5) small (<11 cm): rare (1-5)
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): abundant (>20)
No. termite mounds	arboreal: rare (1-2) ground: rare (1-2)
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	common (26-75 %)
Cliffs/outcrops	not detected
Grassy tussocks	common (26-50 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): common (51-75 %) Coarse (2-10 cm diameter): common (51-75 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	common (26-50 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	common (26-50 %)
Nectar abundance	abundant (>50 %)

Koala habitat assessment

Koala feed trees: yes, poplar box (*E. populnea*) - secondary, narrow-leaved ironbark (*E. crebra*) - secondary

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Koala habitat score: koala occurrence: low

(0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): rare (1-5)

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? yes

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? yes



North



East



South



West

FAUNA HABITAT ASSESSMENT

Project: Dalby Solar Farm

Coordinates: -27.2393°, 150.8226° (GDA 94)

Date: 2021-05-27, 07:43 Assessor: Bn

Site No: FH19 Survey type: fauna habitat

Comments: Regrowth E. crebra and E. poplar forest with callitris and buloke.

Fauna habitat within 1 ha

Hollows	not detected
No. of hollows	large (>20 cm): medium (11-20 cm): small (<11 cm):
No. of logs	large (>50 cm): rare (1-5) small (<50 cm): common (11-20)
No. termite mounds	arboreal: not detected ground: not detected
Burrows	not detected
Rock crevices	not detected
Basking areas	not detected
Exfoliating bark	rare (1-10 %)
Cliffs/outcrops	not detected
Grassy tussocks	abundant (>50 %), height (m): 30
Cracking clays	not detected
Leaf litter	Fine (<2 cm diameter): rare (1-10 %) Coarse (2-10 cm diameter): occasional (11-50 %)
Stones (20-60 cm)	not detected
Boulders (61 cm-2 m)	not detected
Large boulders (>2 m)	not detected
Seeding native grass cover	common (26-50 %)
Fleshy fruiting plants	rare (1-10 %)
Shrub density (cover)	occasional (11-25 %)
Nectar abundance	common (26-50 %)

Koala habitat assessment

Koala feed trees: yes, poplar box (*E. populnea*) - secondary, narrow-leaved ironbark (*E. crebra*) - secondary

Koala evidence: none detected

Height of tallest stratum > 5 m? yes

If a shrubland, are emergent food trees > 5 m in height?

Notes: Technically yes but given the height and exposed nature of the habitat due to past clearing/the veg being regrowth, there's habitat areas of greater value elsewhere on the site.

Koala habitat score: koala occurrence: low (0), vegetation composition: high(2), habitat connectivity: high (2), key existing threats: high (2), recovery value: high (2), overall score: 8 = **critical habitat**

Greater glider habitat assessment

Eucalypt trees present? yes

Abundance of greater glider suitable hollows (>10 cm): absent

Suitable greater glider habitat? no

Glossy black cockatoo habitat assessment

Suitable glossy black-cockatoo habitat? no

Grey Snake habitat assessment

Suitable grey Snake habitat? no

Golden-tailed gecko habitat assessment

Suitable golden-tailed gecko habitat? marginal



North



East



South



West

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-26, 11:37 | Assessor: BM | Site No: BC1

Coordinates: 0 m: -27.2399, 150.8171; 50 m: -27.2401, 150.8168

Mapped RE: 11.5.1 (VM status: LC, BD status: NC)

Verified RE: 11.5.1 (VM status: LC, BD status: NC)

Benchmark available? yes

	Measured	Benchmark [^]	
100 x 50 m area (0.5 ha)	Recruitment:	100%	100%
	Emergent height	-	-
	Canopy height	18 m	20 m
	Sub-canopy height	9 m	9 m
	Number of large eucalypt trees (Threshold: 44 cm/dbh)	2	7
	Number of large non-eucalypt trees (Threshold: 24 cm /DBH)	2	1
	Native tree species richness	3	5
	Tree species: <i>Eucalyptus crebra</i> , <i>Allocasuarina luehmannii</i> , <i>Callitris glaucophylla</i>		
	Non-native cover	1%	0%
	Native shrub species richness	7	5
Shrub species: <i>Acacia leiocalyx</i> subsp. <i>leiocalyx</i> , <i>Allocasuarina luehmannii</i> , <i>Solanum nemophilum</i> , <i>Eucalyptus crebra</i> , <i>Dodonaea triangularis</i> , <i>Opuntia tomentosa</i> *, <i>Acacia conferta</i> , <i>Denhamia cunninghamii</i>			
Native grass species richness	18	8	
Grass species: <i>Eragrostis leptostachya</i> , <i>Entolasia stricta</i> , <i>Panicum effusum</i> , <i>Eragrostis sororia</i> , <i>Enteropogon acicularis</i> , <i>Digitaria ramularis</i> , <i>Aristida leichhardtiana</i> , <i>Paspalidium</i> sp., <i>Dinebra decipiens</i> , <i>Rytidosperma bipartitum</i> , <i>Walwhalleya prolata</i> , <i>Sporobolus creber</i> , <i>Chloris ventricosa</i> , <i>Aristida calycina</i> , <i>Aristida</i> sp., <i>Eriochloa pseudoacrotricha</i> , <i>Aristida caput-medusae</i> , <i>Eulalia aurea</i>			
Native forb and other species richness	22	10	
Forb species: <i>Cyperus fulvus</i> , <i>Fimbristylis depauperata</i> , <i>Cheilanthes sieberi</i> , <i>Calandrinia pickeringii</i> , <i>Brunoniella australis</i> , <i>Cyperus gracilis</i> , <i>Goodenia</i> sp., <i>Einadia nutans</i> , <i>Cyanthillium cinereum</i> , <i>Dianella caerulea</i> , <i>Solanum ellipticum</i> , <i>Goodenia glabra</i> , <i>Lomandra</i> sp., <i>Calotis dentex</i> , <i>Evolvulus alsinoides</i> , <i>Einadia trigonos</i> subsp. <i>stellulata</i> , <i>Cheilanthes distans</i> , <i>Phyllanthus virgatus</i> , <i>Synostemon</i> sp., <i>Gahnia aspera</i> , <i>Scleria mackaviensis</i> , <i>Calotis cuneifolia</i>			
Emergent cover	-	-	
Plot attributes (actual)	Canopy cover	20.8%	25%
	Sub-canopy cover	31.9%	20%
	Shrub cover	15.6%	6%
	Average perennial grass cover	33%	23%
	Average organic litter cover	43%	45%
	Total coarse woody debris (m/ ha):	69.00 (x10) = 690	135

[^] Benchmark[^] (if available) /hectare



East photo



South photo



West photo



North photo



Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	15	10
	(b) Tree canopy height	5	5
	Emergent height: -		
	Canopy height: 5		
	Subcanopy height: 5		
	(c) Recruitment	5	5
	(d) Tree canopy cover (%)	5	5
	Emergent cover: -		
	Canopy cover: 5		
	Subcanopy cover: 5		
	(e) Shrub layer cover	5	3
	(f) Coarse woody debris	5	5
	(g) Native plant species richness	20	18
	Tree species richness: 3		
Shrub species richness: 5			
Grass species richness: 5			
Forb species richness: 5			
(h) Non-native plant cover	10	10	
(i) Native perennial grass cover	5	5	
(j) Litter cover	5	5	
2. Landscape attributes	(k) Patch size =	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (71) + (20) / 80 + 20 \\
 &= .91
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC1 (11.5.1) is 9.1

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-26, 12:59 **Assessor:** BM **Site No:** BC2
Coordinates: 0 m: -27.2435, 150.8169; 50 m: -27.2438, 150.8165
Mapped RE: 11.5.1 (VM status: LC, BD status: NC)
Verified RE: 11.5.1 (VM status: LC, BD status: NC)

Benchmark available? yes

	Measured	Benchmark [^]	
100 x 50 m area (0.5 ha)	Recruitment:	60%	100%
	Emergent height	-	-
	Canopy height	18 m	20 m
	Sub-canopy height	14 m	9 m
	Number of large eucalypt trees (Threshold: 44 cm/dbh)	1	7
	Number of large non-eucalypt trees (Threshold: 24 cm /DBH)	4	1
	Native tree species richness	5	5
	Tree species: <i>Eucalyptus crebra</i> , <i>Callitris glaucophylla</i> , <i>Allocasuarina luehmannii</i> , <i>Eucalyptus populnea</i> , <i>Corymbia clarksoniana</i>		
	Non-native cover	1%	0%
	Native shrub species richness	7	5
Shrub species: <i>Allocasuarina luehmannii</i> , <i>Acacia leiocalyx subsp. leiocalyx</i> , <i>Eucalyptus crebra</i> , <i>Solanum nemophilum</i> , <i>Sida hackettiana</i> , <i>Myoporum acuminatum</i> , <i>Abutilon oxycarpum</i>			
Native grass species richness	14	8	
Grass species: <i>Sporobolus creber</i> , <i>Enteropogon acicularis</i> , <i>Eragrostis spartinooides</i> , <i>Dinebra decipiens</i> , <i>Eragrostis sororia</i> , <i>Aristida calycina</i> , <i>Eragrostis brownii</i> , <i>Paspalidium distans</i> , <i>Cymbopogon refractus</i> , <i>Eragrostis leptostachya</i> , <i>Chloris ventricosa</i> , <i>Paspalidium sp.</i> , <i>Ancistrachne uncinulata</i> , <i>Cenchrus ciliaris</i> *, <i>Melinis repens</i> *			
50 X 10 m area	Native forb and other species richness	21	10
	Forb species: <i>Fimbristylis depauperata</i> , <i>Cheilanthes sieberi</i> , <i>Calotis cuneifolia</i> , <i>Sphaeromorphaea australis</i> , <i>Cyanthillium cinereum</i> , <i>Calotis dentex</i> , <i>Solanum ellipticum</i> , <i>Einadia nutans</i> , <i>Cheilanthes distans</i> , <i>Einadia polygonoides</i> , <i>Calandrinia pickeringii</i> , <i>Evolvulus alsinoides</i> , <i>Glossocardia bidens</i> , <i>Glycine sp.</i> , <i>Vittadinia sulcata</i> , <i>Oxalis sp.</i> , <i>Cyperus fulvus</i> , <i>Nyssanthus diffusa</i> , <i>Glycine tomentella</i> , <i>Gahnia aspera</i> , <i>Cyperus difformis</i> , <i>Gomphrena celosioides</i> *		
	Emergent cover	-	-
	Canopy cover	10.9%	25%
	Sub-canopy cover	36.8%	20%
	Shrub cover	8.5%	6%
	Average perennial grass cover	83%	23%
	Average organic litter cover	10%	45%
	Total coarse woody debris (m/ ha):	51.00 (x10) = 510	135
	Plot attributes (actual)		

[^] Benchmark[^] (if available) /hectare



East photo



South photo



West photo



North photo



Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	15	10
	(b) Tree canopy height	5	5
	Emergent height: -		
	Canopy height: 5		
	Subcanopy height: 5	5	3
	(c) Recruitment		
	(d) Tree canopy cover (%)		
	Emergent cover:	5	4
	Canopy cover: 3		
	Subcanopy cover: 5		
	(e) Shrub layer cover	5	5
	(f) Coarse woody debris	5	5
	(g) Native plant species richness	20	20
	Tree species richness: 5		
Shrub species richness: 5			
Grass species richness: 5			
Forb species richness: 5	10	10	
(h) Non-native plant cover			
(i) Native perennial grass cover			
(j) Litter cover	5	3	
2. Landscape attributes	(k) Patch size =	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (70) + (20) / 80 + 20 \\
 &= .9
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC2 (11.5.1) is 9

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-25, 10:25 **Assessor:** BM **Site No:** BCS
Coordinates: 0 m: -27.2400, 150.8357; 50 m: -27.2398, 150.8361
Mapped RE: 11.7.4/11.7.5 (90/10) (VM status: LC, BD status: NC)
Verified RE: 11.7.4 (VM status: LC, BD status: NC)

Benchmark available? yes

	Measured	Benchmark [^]	
100 x 50 m area (0.5 ha)	Recruitment:	100%	100%
	Emergent height	-	-
	Canopy height	17 m	18 m
	Sub-canopy height	10 m	9 m
	Number of large eucalypt trees (Threshold: 46 cm/dbh)	2	14
	Number of large non-eucalypt trees (Threshold: 26 cm /DBH)	7	7
	Native tree species richness	6	4
	Tree species: <i>Eucalyptus crebra</i> , <i>Callitris glaucophylla</i> , <i>Corymbia clarksoniana</i> , <i>Allocasuarina luehmannii</i> , <i>Angophora leiocarpa</i> , <i>Eucalyptus tereticornis</i> subsp. <i>tereticornis</i>		
	Non-native cover	1%	0%
	Native shrub species richness	5	6
Shrub species: <i>Allocasuarina luehmannii</i> , <i>Acacia leiocalyx</i> subsp. <i>leiocalyx</i> , <i>Acacia muelleriana</i> , <i>Solanum nemophilum</i> , <i>Opuntia tomentosa</i> *, <i>Acacia conferta</i>			
Native grass species richness	12	7	
Grass species: <i>Panicum effusum</i> , <i>Eragrostis sororia</i> , <i>Eragrostis spartinooides</i> , <i>Aristida calycina</i> , <i>Eragrostis brownii</i> , <i>Paspalidium distans</i> , <i>Aristida leichhardtiana</i> , <i>Sporobolus creber</i> , <i>Digitaria ramularis</i> , <i>Eragrostis</i> sp., <i>Aristida caput-medusae</i> , <i>Aristida jerichoensis</i>			
Native forb and other species richness	25	9	
Forb species: <i>Calandrinia pickeringii</i> , <i>Dysphania carinata</i> , <i>Gahnia aspera</i> , <i>Cheilanthes sieberi</i> , <i>Lomandra</i> sp., <i>Cheilanthes distans</i> , <i>Cyperus gracilis</i> , <i>Solanum ellipticum</i> , <i>Cyperus fulvus</i> , <i>Euphorbia drummondii</i> , <i>Lomandra multiflora</i> , <i>Sigesbeckia orientalis</i> , <i>Cyanthillium cinereum</i> , <i>Evolvulus alsinoides</i> , <i>Crassula</i> sp., <i>Lomandra filiformis</i> , <i>Cyperus pygmaeus</i> , <i>Fimbristylis dichotoma</i> , <i>Dianella caerulea</i> , <i>Vittadinia</i> sp., <i>Dianella revoluta</i> , <i>Laxmannia gracilis</i> , <i>Sonchus oleraceus</i> *, <i>Calotis dentex</i> , <i>Brunoniella australis</i> , <i>Lysiana exocarpi</i> subsp. <i>tenuis</i>			
Emergent cover	-	-	
Canopy cover	21.8%	29%	
Sub-canopy cover	55.6%	8%	
Shrub cover	10%	7%	
Average perennial grass cover	13%	12%	
Average organic litter cover	38.6%	50%	
Total coarse woody debris (m/ ha):	68.00 (x10) = 680	320	
50 X 10 m area			
Plot attributes (actual)			

[^] Benchmark[^] (if available) /hectare



East photo



South photo



West photo



North photo



Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	15	5
	(b) Tree canopy height	5	5
	Emergent height: -		
	Canopy height: 5		
	Subcanopy height: 5		
	(c) Recruitment	5	5
	(d) Tree canopy cover (%)	5	4
	Emergent cover: -		
	Canopy cover: 5		
	Subcanopy cover: 3		
	(e) Shrub layer cover	5	5
	(f) Coarse woody debris	5	5
	(g) Native plant species richness	20	18
	Tree species richness: 5		
Shrub species richness: 3			
Grass species richness: 5			
Forb species richness: 5			
(h) Non-native plant cover	10	10	
(i) Native perennial grass cover	5	5	
(j) Litter cover	5	5	
2. Landscape attributes	(k) Patch size =	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (67) + (20) / 80 + 20 \\
 &= .87
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC5 (11.7.4) is 8.7

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-25, 14:12 | Assessor: BM | Site No: BC7

Coordinates: 0 m: -27.2411, 150.8303; 50 m: -27.2415, 150.8305

Mapped RE: 11.7.4/11.7.5 (90/10) (VM status: LC, BD status: NC).

Verified RE: 11.7.4 (VM status: LC, BD status: NC)

Benchmark available? yes

	Measured	Benchmark [^]	
100 x 50 m area (0.5 ha)	Recruitment:	100%	100%
	Emergent height	-	-
	Canopy height	19 m	18 m
	Sub-canopy height	11 m	9 m
	Number of large eucalypt trees (Threshold: 46 cm/dbh)	0	14
	Number of large non-eucalypt trees (Threshold: 26 cm /DBH)	1	7
	Native tree species richness	3	4
	Tree species: <i>Eucalyptus crebra</i> , <i>Callitris glaucophylla</i> , <i>Allocasuarina luehmannii</i>		
	Non-native cover	1%	0%
	Native shrub species richness	6	6
Shrub species: <i>Hakea leucoptera</i> , <i>Denhamia cunninghamii</i> , <i>Allocasuarina luehmannii</i> , <i>Acacia leiocalyx subsp. leiocalyx</i> , <i>Hakea lorea subsp. lorea</i> , <i>Opuntia tomentosa*</i> , <i>Opuntia stricta*</i> , <i>Abutilon oxycarpum</i>			
Native grass species richness	13	7	
Grass species: <i>Panicum effusum</i> , <i>Sporobolus creber</i> , <i>Eragrostis spartinooides</i> , <i>Eragrostis leptostachya</i> , <i>Eragrostis sororia</i> , <i>Ancistrachne uncinulata</i> , <i>Bothriochloa decipiens var. decipiens</i> , <i>Aristida caput-medusae</i> , <i>Eriochloa pseudoacrotricha</i> , <i>Aristida jerichoensis</i> , <i>Paspalidium sp.</i> , <i>Enteropogon acicularis</i> , <i>Melinis repens*</i> , <i>Eragrostis brownii</i>			
50 X 10 m area	Native forb and other species richness	22	9
	Forb species: <i>Calandrinia pickeringii</i> , <i>Cyperus gracilis</i> , <i>Nyssanthus diffusa</i> , <i>Phyllanthus virgatus</i> , <i>Solanum ellipticum</i> , <i>Fimbristylis dichotoma</i> , <i>Calotis cuneifolia</i> , <i>Cyanthillium cinereum</i> , <i>Cyperus difformis</i> , <i>Alternanthera nana</i> , <i>Brunoniella australis</i> , <i>Einadia hastata</i> , <i>Cheilanthes sieberi</i> , <i>Gahnia aspera</i> , <i>Glossocardia bidens</i> , <i>Dysphania carinata</i> , <i>Hibiscus sturtii</i> , <i>Rostellularia adscendens</i> , <i>Lomandra sp.</i> , <i>Goodenia glabra</i> , <i>Einadia trigonos subsp. stellulata</i> , <i>Cyperus fulvus</i>		
	Emergent cover	-	-
	Canopy cover	43.8%	29%
	Sub-canopy cover	19.4%	8%
	Shrub cover	8.8%	7%
	Average perennial grass cover	9.2%	12%
	Average organic litter cover	71%	50%
	Total coarse woody debris (m/ ha):	10.00 (x10) = 100	320
	Plot attributes (actual)		

[^] Benchmark[^] (if available) /hectare

North photo



East photo



South photo



West photo





Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	15	5
	(b) Tree canopy height	5	5
	Emergent height: -		
	Canopy height: 5		
	Subcanopy height: 5		
	(c) Recruitment	5	5
	(d) Tree canopy cover (%)	5	4
	Emergent cover: -		
	Canopy cover: 5		
	Subcanopy cover: 3		
	(e) Shrub layer cover	5	5
	(f) Coarse woody debris	5	2
	(g) Native plant species richness	20	18
Tree species richness: 3			
Shrub species richness: 5			
Grass species richness: 5			
Forb species richness: 5			
(h) Non-native plant cover	10	10	
(i) Native perennial grass cover	5	3	
(j) Litter cover	5	5	
2. Landscape attributes	(k) Patch size =	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (62) + (20) / 80 + 20 \\
 &= .82
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC7 (11.7.4) is 8.2

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-25, 12:37 | Assessor: BM | Site No: BC6

Coordinates: 0 m: -27.2446, 150.8298; 50 m: -27.2443, 150.8295

Mapped RE: 11.7.4/11.7.5 (90/10) (VM status: LC, BD status: NC).

Verified RE: 11.7.4 (VM status: LC, BD status: NC)

Benchmark available? yes

	Measured	Benchmark [^]		
100 x 50 m area (0.5 ha)	Recruitment:	80%	100%	
	Emergent height	-	-	
	Canopy height	17 m	18 m	
	Sub-canopy height	9 m	9 m	
	Number of large eucalypt trees (Threshold: 46 cm/dbh)		14	
	Number of large non-eucalypt trees (Threshold: 26 cm /DBH)	1	7	
	Native tree species richness	5	4	
	Tree species: <i>Eucalyptus crebra</i> , <i>Callitris glaucophylla</i> , <i>Eucalyptus populnea</i> , <i>Allocasuarina luehmannii</i> , <i>Eucalyptus crebra x Eucalyptus populnea</i>			
	Non-native cover	1%	0%	
	Native shrub species richness	3	6	
	Shrub species: <i>Acacia leiocalyx subsp. leiocalyx</i> , <i>Callitris glaucophylla</i> , <i>Pittosporum angustifolium</i>			
	Native grass species richness	15	7	
	50 X 10 m area	Grass species: <i>Dinebra decipiens</i> , <i>Panicum effusum</i> , <i>Paspalidium sp.</i> , <i>Paspalidium distans</i> , <i>Eragrostis sororia</i> , <i>Aristida jerichoensis</i> , <i>Chloris ventricosa</i> , <i>Sporobolus creber</i> , <i>Eragrostis spartinooides</i> , <i>Melinis repens*</i> , <i>Bothriochloa decipiens var. decipiens</i> , <i>Eriochloa pseudoacrotricha</i> , <i>Aristida calycina</i> , <i>Enteropogon acicularis</i> , <i>Aristida queenslandica var. queenslandica</i> , <i>Aristida caput-medusae</i>		
Native forb and other species richness		24	9	
Forb species: <i>Calotis cuneifolia</i> , <i>Euphorbia drummondii</i> , <i>Evolvulus alsinoides</i> , <i>Glycine clandestina</i> , <i>Malvastrum americanum var. americanum*</i> , <i>Cheilanthes sieberi</i> , <i>Cyperus gracilis</i> , <i>Cyperus fulvus</i> , <i>Plantago debilis</i> , <i>Calandrinia pickeringii</i> , <i>Solanum ellipticum</i> , <i>Brunoniella australis</i> , <i>Eremophila debilis</i> , <i>Fimbristylis depauperata</i> , <i>Lobelia purpurascens</i> , <i>Gomphrena celosioides*</i> , <i>Gahnia aspera</i> , <i>Nyssanthes diffusa</i> , <i>Einadia hastata</i> , <i>Vittadinia sulcata</i> , <i>Sida sp.</i> , <i>Sphaeromorphaea australis</i> , <i>Glandularia aristigera*</i> , <i>Calotis dentex</i> , <i>Cyperus sp.</i> , <i>Synostemon sp.</i> , <i>Lomandra multiflora</i>				
Emergent cover		-	-	
Canopy cover		35.6%	29%	
Sub-canopy cover		13.3%	8%	
Shrub cover		5.8%	7%	
Average perennial grass cover		57%	12%	
Average organic litter cover		14.4%	50%	
Total coarse woody debris (m/ ha):		64.00 (x10) = 640	320	
Plot attributes (actual)				

[^] Benchmark[^] (if available) /hectare

North photo



East photo



South photo



West photo





Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	15	5
	(b) Tree canopy height	5	5
	Emergent height: -		
	Canopy height: 5		
	Subcanopy height: 5	5	5
	(c) Recruitment		
	(d) Tree canopy cover (%)		
	Emergent cover: -	5	5
	Canopy cover: 5		
	Subcanopy cover: 5		
	(e) Shrub layer cover	5	5
	(f) Coarse woody debris	5	5
	(g) Native plant species richness	20	18
	Tree species richness: 5		
Shrub species richness: 3			
Grass species richness: 5			
Forb species richness: 5	10	10	
(h) Non-native plant cover			
(i) Native perennial grass cover			
(j) Litter cover	5	3	
2. Landscape attributes	(k) Patch size =	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (66) + (20) / 80 + 20 \\
 &= .86
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC6 (11.7.4) is 8.6

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-25, 08:40 Assessor: BM Site No: BC8

Coordinates: 0 m: -27.2373, 150.8400; 50 m: -27.2376, 150.8397

Mapped RE: 11.7.4/11.7.5 (90/10) (VM status: LC, BD status: NC).

Verified RE: 11.7.5 (VM status: LC, BD status: NC)

Benchmark available? yes

	Measured	Benchmark [^]	
100 x 50 m area (0.5 ha)	Recruitment:	100%	100%
	Emergent height	11 m	9 m
	Canopy height	2 m	-
	Sub-canopy height	-	-
	Number of large eucalypt trees	-	-
	Number of large non-eucalypt trees	-	-
	Native tree species richness	3	2
	Tree species: <i>Eucalyptus crebra</i> , <i>Eucalyptus exserta</i> , <i>Angophora leiocarpa</i>		
	Non-native cover	1%	0%
	Native shrub species richness	6	12
Shrub species: <i>Melichrus urceolatus</i> , <i>Acacia triptera</i> , <i>Eucalyptus crebra</i> , <i>Tephrosia sp.</i> , <i>Solanum nemophilum</i> , <i>Eucalyptus exserta</i>			
Native grass species richness	17	3	
Grass species: <i>Eragrostis spartinooides</i> , <i>Panicum simile</i> , <i>Eragrostis sororia</i> , <i>Digitaria brownii</i> , <i>Eragrostis brownii</i> , <i>Aristida calycina</i> , <i>Aristida jerichoensis</i> , <i>Sporobolus creber</i> , <i>Bothriochloa decipiens var. decipiens</i> , <i>Paspalidium sp.</i> , <i>Eulalia aurea</i> , <i>Panicum effusum</i> , <i>Aristida caput-medusae</i> , <i>Tripogon loliiformis</i> , <i>Austrostipa scabra</i> , <i>Digitaria ramularis</i> , <i>Thyridolepis mitchelliana</i>			
Native forb and other species richness	17	4	
Forb species: <i>Cheilanthes sieberi</i> , <i>Sida cunninghamii</i> , <i>Evolvulus alsinoides</i> , <i>Brunoniella australis</i> , <i>Oxalis sp.</i> , <i>Fimbristylis dichotoma</i> , <i>Solanum ellipticum</i> , <i>Gonocarpus urceolatus</i> , <i>Centella asiatica</i> , <i>Cyperus sp.</i> , <i>Calandrinia pickeringii</i> , <i>Vittadinia sulcata</i> , <i>Calotis dentex</i> , <i>Cyanthillium cinereum</i> , <i>Euphorbia drummondii</i> , <i>Gahnia aspera</i> , <i>Portulaca bicolor</i>			
Emergent cover	5.3%	10%	
Canopy cover	8.3%	-	
Sub-canopy cover	-	-	
Shrub cover	16.9%	46%	
Average perennial grass cover	21%	3%	
Average organic litter cover	13%	19%	
Total coarse woody debris (m/ ha):	26.00 (x10) = 260	-	
50 X 10 m area			
Plot attributes (actual)			

[^] Benchmark[^] (if available) /hectare



East photo



South photo



West photo



North photo



Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	NA	
	(b) Tree canopy height	5	5
	Emergent height: 5		
	Canopy height: - Subcanopy height: -		
	(c) Recruitment	5	5
	(d) Tree canopy cover (%)	5	5
	Emergent cover: 5		
	Canopy cover: - Subcanopy cover: -		
	(e) Shrub layer cover	5	3
	(f) Coarse woody debris	NA	
	(g) Native plant species richness	20	18
	Tree species richness: 5		
	Shrub species richness: 3		
	Grass species richness: 5 Forb species richness: 5		
(h) Non-native plant cover	10	10	
(i) Native perennial grass cover	5	5	
(j) Litter cover	5	5	
2. Landscape attributes	(k) Patch size =	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (56) + (20) / 60 + 20 \\
 &= .95
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC8 (11.7.5) is 9.5

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-25, 07:11 | Assessor: BM | Site No: BC9

Coordinates: 0 m: -27.2433, 150.8336; 50 m: -27.2431, 150.8341

Mapped RE: 11.7.4/11.7.5 (90/10) (VM status: LC, BD status: NC).

Verified RE: 11.7.5 (VM status: LC, BD status: NC)

Benchmark available? yes

	Measured	Benchmark [^]	
100 x 50 m area (0.5 ha)	Recruitment:	100%	100%
	Emergent height	5 m	9 m
	Canopy height	1.5 m	-
	Sub-canopy height	-	-
	Number of large eucalypt trees	-	-
	Number of large non-eucalypt trees	-	-
	Native tree species richness	1	2
	Tree species: <i>Eucalyptus exserta</i>		
	Non-native cover	1%	0%
	Native shrub species richness	3	12
50 X 10 m area	Shrub species: <i>Acacia triptera</i> , <i>Boronia bipinnata</i> , <i>Eucalyptus exserta</i>		
	Native grass species richness	8	3
	Grass species: <i>Cleistochloa subjuncea</i> , <i>Digitaria ramularis</i> , <i>Eragrostis brownii</i> , <i>Thyridolepis mitchelliana</i> , <i>Tripogon loliiformis</i> , <i>Aristida caput-medusae</i> , <i>Aristida queenslandica</i> var. <i>queenslandica</i> , <i>Eragrostis lacunaria</i>		
	Native forb and other species richness	4	4
	Forb species: <i>Cheilanthes sieberi</i> , <i>Fimbristylis depauperata</i> , <i>Calotis dentex</i> , <i>Cyperus</i> sp., <i>Ambrosia</i> sp.		
	Emergent cover	0%	10%
Plot attributes (actual)	Canopy cover	0%	na%
	Sub-canopy cover	0%	na%
	Shrub cover	37%	46%
	Average perennial grass cover	16%	3%
	Average organic litter cover	41%	19%
	Total coarse woody debris (m/ ha):	-	na

[^] Benchmark[^] (if available) /hectare

North photo



East photo



South photo



West photo





Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	NA	
	(b) Tree canopy height	5	3
	Emergent height: 3		
	Canopy height: -		
	Subcanopy height: -		
	(c) Recruitment	5	5
	(d) Tree canopy cover (%)	5	0
	Emergent cover: 0		
	Canopy cover: -		
	Subcanopy cover: -		
	(e) Shrub layer cover	5	5
	(f) Coarse woody debris	NA	
	(g) Native plant species richness	20	16
	Tree species richness: 3		
Shrub species richness: 3			
Grass species richness: 5			
Forb species richness: 5			
(h) Non-native plant cover	10	10	
(i) Native perennial grass cover	5	5	
(j) Litter cover	5	3	
2. Landscape attributes	(k) Patch size =	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (47) + (20) / 60 + 20 \\
 &= .84
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC9 (11.7.5) is 8.4

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-26, 07:08 | Assessor: BM | Site No: BC3

Coordinates: 0 m: -27.2447, 150.8222; 50 m: -27.2452, 150.8223

Mapped RE: 11.5.1 (VM status: LC (HVR), BD status: NC (HVR))

Verified RE: 11.5.1 advanced regrowth (VM status: LC (HVR), BD status: NC (HVR))

Benchmark available? yes

	Measured	Benchmark [^]	
100 x 50 m area (0.5 ha)	Recruitment:	80%	100%
	Emergent height	-	-
	Canopy height	14 m	20 m
	Sub-canopy height	9 m	9 m
	Number of large eucalypt trees (Threshold: 44 cm/dbh)	1	7
	Number of large non-eucalypt trees (Threshold: 24 cm /DBH)	5	1
	Native tree species richness	5	5
	Tree species: <i>Eucalyptus crebra</i> , <i>Eucalyptus populnea</i> , <i>Callitris glaucophylla</i> , <i>Allocasuarina luehmannii</i> , <i>Eucalyptus tereticornis subsp. tereticornis</i>		
	Non-native cover	1%	0%
	Native shrub species richness	6	5
Shrub species: <i>Acacia leiocalyx subsp. leiocalyx</i> , <i>Allocasuarina luehmannii</i> , <i>Pimelea neoanglica</i> , <i>Solanum nemophilum</i> , <i>Callitris glaucophylla</i> , <i>Eucalyptus populnea</i>			
Native grass species richness	14	8	
Grass species: <i>Eragrostis sororia</i> , <i>Panicum effusum</i> , <i>Eragrostis leptostachya</i> , <i>Paspalidium sp.</i> , <i>Melinis repens*</i> , <i>Aristida calycina</i> , <i>Sporobolus creber</i> , <i>Cenchrus ciliaris*</i> , <i>Paspalidium distans</i> , <i>Bothriochloa decipiens var. decipiens</i> , <i>Eulalia aurea</i> , <i>Aristida jerichoensis</i> , <i>Cymbopogon refractus</i> , <i>Chloris ventricosa</i> , <i>Enteropogon acicularis</i> , <i>Eragrostis brownii</i> , <i>Chloris gayana*</i>			
Native forb and other species richness	24	10	
Forb species: <i>Murdannia graminea</i> , <i>Cheilanthes sieberi</i> , <i>Brunoniella australis</i> , <i>Cyperus bifax</i> , <i>Calandrinia pickeringii</i> , <i>Solanum ellipticum</i> , <i>Nyssanthes diffusa</i> , <i>Cyperus gracilis</i> , <i>Einadia hastata</i> , <i>Gomphrena celosioides*</i> , <i>Cyperus fulvus</i> , <i>Cyanthillium cinereum</i> , <i>Phyllanthus virgatus</i> , <i>Dianella caerulea</i> , <i>Dianella brevipedunculata</i> , <i>Calotis cuneifolia</i> , <i>Lomandra multiflora</i> , <i>Alternanthera denticulata</i> , <i>Fimbristylis depauperata</i> , <i>Sigesbeckia orientalis</i> , <i>Commelina lanceolata</i> , <i>Crassula sp.</i> , <i>Sonchus oleraceus*</i> , <i>Cyperus pygmaeus</i> , <i>Synostemon sp.</i> , <i>Oxalis sp.</i>			
Emergent cover	-	-	
Canopy cover	22.4%	25%	
Sub-canopy cover	10%	20%	
Shrub cover	17.7%	6%	
Average perennial grass cover	72%	23%	
Average organic litter cover	17%	45%	
Total coarse woody debris (m/ ha):	54.00 (x10) = 540	135	
50 X 10 m area			
Plot attributes (actual)			

[^] Benchmark[^] (if available) /hectare

North photo



East photo



South photo



West photo





Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	15	10
	(b) Tree canopy height	5	5
	Emergent height: -		
	Canopy height: 5		
	Subcanopy height: 5		
	(c) Recruitment	5	5
	(d) Tree canopy cover (%)	5	5
	Emergent cover: -		
	Canopy cover: 5		
	Subcanopy cover: 5		
	(e) Shrub layer cover	5	3
	(f) Coarse woody debris	5	5
	(g) Native plant species richness	20	20
	Tree species richness: 5		
Shrub species richness: 5			
Grass species richness: 5			
Forb species richness: 5			
(h) Non-native plant cover	10	10	
(i) Native perennial grass cover	5	5	
(j) Litter cover	5	3	
2. Landscape attributes	(k) Patch size = $\geq 100 - 200$ ha remnant OR > 200 ha remnant and regrowth OR > 200 ha regrowth	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (71) + (20) / 80 + 20 \\
 &= .91
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC3 (11.5.1 advanced regrowth) is 9.1

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-26, 09:02 | Assessor: BM | Site No: BC4

Coordinates: 0 m: -27.2468, 150.8268; 50 m: -27.2464, 150.8271

Mapped RE: 11.5.1 (VM status: LC (HVR), BD status: NC (HVR))

Verified RE: 11.5.1 advanced regrowth (VM status: LC (HVR), BD status: NC (HVR))

Benchmark available? yes

	Measured	Benchmark [^]	
100 x 50 m area (0.5 ha)	Recruitment:	100%	100%
	Emergent height	-	-
	Canopy height	18 m	20 m
	Sub-canopy height	10 m	9 m
	Number of large eucalypt trees (Threshold: 44 cm/dbh)	3	7
	Number of large non-eucalypt trees (Threshold: 24 cm /DBH)	5	1
	Native tree species richness	4	5
	Tree species: <i>Eucalyptus populnea</i> , <i>Callitris glaucophylla</i> , <i>Allocasuarina luehmannii</i> , <i>Eucalyptus crebra</i>		
	Non-native cover	1%	0%
	Native shrub species richness	5	5
	Shrub species: <i>Allocasuarina luehmannii</i> , <i>Acacia leiocalyx subsp. leiocalyx</i> , <i>Eucalyptus populnea</i> , <i>Geijera parviflora</i> , <i>Opuntia tomentosa</i> *, <i>Eucalyptus tereticornis subsp. tereticornis</i>		
	Native grass species richness	15	8
	50 X 10 m area	Grass species: <i>Sporobolus creber</i> , <i>Eragrostis sororia</i> , <i>Panicum effusum</i> , <i>Eragrostis leptostachya</i> , <i>Aristida queenslandica var. queenslandica</i> , <i>Enteropogon acicularis</i> , <i>Chloris ventricosa</i> , <i>Paspalidium distans</i> , <i>Eragrostis spartinooides</i> , <i>Aristida jerichoensis</i> , <i>Eragrostis brownii</i> , <i>Eulalia aurea</i> , <i>Aristida calycina</i> , <i>Bothriochloa decipiens var. decipiens</i> , <i>Melinis repens</i> *, <i>Dinebra decipiens</i>	
Native forb and other species richness		28	10
Forb species: <i>Solanum ellipticum</i> , <i>Cheilanthes sieberi</i> , <i>Evolvulus alsinoides</i> , <i>Cyperus fulvus</i> , <i>Portulaca filifolia</i> , <i>Calandrinia pickeringii</i> , <i>Glycine tomentella</i> , <i>Dianella brevipedunculata</i> , <i>Cyperus gracilis</i> , <i>Fimbristylis depauperata</i> , <i>Sphaeromorphaea australis</i> , <i>Lomandra multiflora</i> , <i>Calotis cuneifolia</i> , <i>Cheilanthes distans</i> , <i>Rostellularia adscendens</i> , <i>Nyssanthes diffusa</i> , <i>Glycine clandestina</i> , <i>Einadia polygonoides</i> , <i>Centella asiatica</i> , <i>Cymbidium canaliculatum</i> , <i>Gomphrena celosioides</i> *, <i>Brunoniella australis</i> , <i>Alternanthera denticulata</i> , <i>Calotis dentex</i> , <i>Chrysocephalum apiculatum</i> , <i>Synostemon sp.</i> , <i>Phyllanthus virgatus</i> , <i>Einadia nutans</i> , <i>Commelina lanceolata</i>			
Emergent cover		-	-
Canopy cover		17%	25%
Sub-canopy cover		19%	20%
Shrub cover		25%	6%
Average perennial grass cover		61%	23%
Average organic litter cover		26%	45%
Total coarse woody debris (m/ ha):		50.00 (x10) = 500	135
Plot attributes (actual)			

[^] Benchmark[^] (if available) /hectare

North photo



East photo



South photo



West photo





Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	15	15
	(b) Tree canopy height	5	5
	Emergent height: -		
	Canopy height: 5		
	Subcanopy height: 5		
	(c) Recruitment	5	5
	(d) Tree canopy cover (%)	5	5
	Emergent cover: -		
	Canopy cover: 5		
	Subcanopy cover: 5		
	(e) Shrub layer cover	5	3
	(f) Coarse woody debris	5	5
	(g) Native plant species richness	20	18
	Tree species richness: 3		
Shrub species richness: 5			
Grass species richness: 5			
Forb species richness: 5			
(h) Non-native plant cover	10	10	
(i) Native perennial grass cover	5	5	
(j) Litter cover	5	5	
2. Landscape attributes	(k) Patch size =	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (76) + (20) / 80 + 20 \\
 &= .96
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC4 (11.5.1 advanced regrowth) is 9.6

Dalby Solar Farm BioCondition Assessment

Date: 2021-05-27, 07:10 | **Assessor:** BM | **Site No:** BC10
Coordinates: 0 m: -27.2389, 150.8224; 50 m: -27.2393, 150.8225
Mapped RE: 11.5.1 (VM status: LC (HVR), BD status: NC (HVR))
Verified RE: 11.7.4 regrowth (VM status: LC (HVR), BD status: NC (HVR))
Benchmark available? yes

	Measured	Benchmark [^]	
100 x 50 m area (0.5 ha)	Recruitment:	75%	100%
	Emergent height	-	-
	Canopy height	15 m	18 m
	Sub-canopy height	9 m	9 m
	Number of large eucalypt trees (Threshold: 46 cm/dbh)	1	14
	Number of large non-eucalypt trees (Threshold: 26 cm /DBH)	0	7
	Native tree species richness	4	4
	Tree species: <i>Eucalyptus crebra</i> , <i>Callitris glaucophylla</i> , <i>Brachychiton populneus</i> subsp. <i>populneus</i> , <i>Allocasuarina luehmannii</i>		
	Non-native cover	1%	0%
	Native shrub species richness	6	6
Shrub species: <i>Allocasuarina luehmannii</i> , <i>Callitris glaucophylla</i> , <i>Acacia leiocalyx</i> subsp. <i>leiocalyx</i> , <i>Psyrax oleifolia</i> , <i>Eucalyptus crebra</i> , <i>Sida hackettiana</i> , <i>Opuntia tomentosa</i> *			
Native grass species richness	20	7	
Grass species: <i>Panicum effusum</i> , <i>Dichanthium sericeum</i> , <i>Eragrostis leptostachya</i> , <i>Aristida caput-medusae</i> , <i>Aristida queenslandica</i> var. <i>queenslandica</i> , <i>Aristida jerichoensis</i> , <i>Eragrostis sororia</i> , <i>Enteropogon acicularis</i> , <i>Cymbopogon refractus</i> , <i>Paspalidium</i> sp., <i>Eragrostis brownii</i> , <i>Aristida calycina</i> var. <i>calycina</i> , <i>Eulalia aurea</i> , <i>Eriochloa pseudoacrotricha</i> , <i>Chloris ventricosa</i> , <i>Eragrostis</i> sp., <i>Bothriochloa decipiens</i> var. <i>decipiens</i> , <i>Panicum</i> sp., <i>Eragrostis trichophora</i> *, <i>Digitaria divaricatissima</i> , <i>Eragrostis elongata</i>			
Native forb and other species richness	24	9	
Forb species: <i>Calotis lappulacea</i> , <i>Sphaeromorphaea australis</i> , <i>Glandularia aristigera</i> *, <i>Portulaca filifolia</i> , <i>Evolvulus alsinoides</i> , <i>Fimbristylis depauperata</i> , <i>Vittadinia sulcata</i> , <i>Solanum ellipticum</i> , <i>Goodenia glabra</i> , <i>Cheilanthes sieberi</i> , <i>Chrysocephalum apiculatum</i> , <i>Oldenlandia</i> sp., <i>Hibiscus sturtii</i> , <i>Brunoniella australis</i> , <i>Zornia dyctiocarpa</i> , <i>Calandrinia pickeringii</i> , <i>Malvastrum americanum</i> var. <i>americanum</i> *, <i>Glossocardia bidens</i> , <i>Cyanthillium cinereum</i> , <i>Eremophila debilis</i> , <i>Cyperus fulvus</i> , <i>Einadia hastata</i> , <i>Glycine clandestina</i> , <i>Sonchus oleraceus</i> *, <i>Gomphrena celosioides</i> *, <i>Alternanthera nana</i> , <i>Centella asiatica</i> , <i>Calotis dentex</i>			
Emergent cover	-	-	
Canopy cover	18.6%	29%	
Sub-canopy cover	9%	8%	
Shrub cover	5.8%	7%	
Average perennial grass cover	69%	12%	
Average organic litter cover	7%	50%	
Total coarse woody debris (m/ ha):	64.00 (x10) = 640	320	
50 X 10 m area			
Plot attributes (actual)			

[^] Benchmark[^] (if available) /hectare

North photo



East photo



South photo



West photo





Attribute Scoring		Weighting	Patch score
1. Site-based attributes	(a) Large trees	15	5
	(b) Tree canopy height	5	5
	Emergent height: -		
	Canopy height: 5		
	Subcanopy height: 5		
	(c) Recruitment	5	5
	(d) Tree canopy cover (%)	5	5
	Emergent cover: -		
	Canopy cover: 5		
	Subcanopy cover: 5		
	(e) Shrub layer cover	5	5
	(f) Coarse woody debris	5	5
	(g) Native plant species richness	20	20
Tree species richness: 5			
Shrub species richness: 5			
Grass species richness: 5			
Forb species richness: 5			
(h) Non-native plant cover	10	10	
(i) Native perennial grass cover	5	5	
(j) Litter cover	5	3	
2. Landscape attributes	(k) Patch size =	10	10
	(l) Connectedness =	5	5
	(m) Context =	5	5

$$\begin{aligned}
 \text{BioCondition score} &= (a + b + c + d + e + f + g + h + i + j) + (k + l + m) / y^{\wedge} + z^{\wedge} \\
 &= (68) + (20) / 80 + 20 \\
 &= .88
 \end{aligned}$$

y^{\wedge} = total weighting for site-based attributes, z^{\wedge} = total weighting for landscape attributes.

Total BioCondition score for Site BC10 (11.7.4 regrowth) is 8.8

PV Power Station - Waterway Assessment

Project: K-REP Waterway Assessment

Assessor/Field Staff: Bruce McLennan	Date: 26/5/21
Site: Unnamed gully SO1	Survey: Watercourse
Landform: stream	Coordinates: -27.249548, 150.825705
Weather Condition: Fine and mild	Type of Work being carried out: Waterway assessment
Site Access: Forest Road	Comments: the site is in the original channel with dam embankment approximately 100 m downstream
Waterway Features	
Condition: good	Recent Rainfall: 29 mm in previous two weeks
Waterway type: natural	Flow Condition: not flowing
Likely Flow Permanence: seasonal/ephemeral	Habitat Types in 100 m Reach, centred on site: Eucalyptus tereticornis/Eucalyptus crebra woodland
Artificial or Natural Waterway (e.g. channelization): natural	Well Defined Bed and Banks (Y/N): yes
Bank Soil/Sediment Type: clay, sand	Slope Along Reach: low 11-30°
Bed Sediment Composition (%): - Bedrock: - Boulder (>256 mm): - Cobble (64-256 mm): - Pebble (4-64 mm): - Gravel (2-4 mm): - Sand (0.05-2 mm): - Silt/Clay (<0.05 mm): 100	Bankfull Height: 1m
	Bankfull Width: 10m
Maximum Water Depth Observed: 0.3m	Low-flow Channel Width: 3m
Bank Slope: Low 11-30°	Continuous Bank/Bed Up/Downstream: continuous
Broken/Continuous section of Bank/Bed: Continuous	Suggested Definition: watercourse
Channels Upstream/Downstream: continuous	Bank/Bed Erosion Extent and Type: minimal, gully
Connectivity to other Waterbodies: feeds into Moramby Creek, to Wilkie Creek which feeds Condamine River	Fish Habitat Upstream: Fringing non-woody, fringing woody, shallow (<0.5m) pool, earth bank, sandy bank
Freshwater or tidally Influenced: freshwater	Fish Habitat Downstream: Fringing non-woody, fringing woody, shallow (<0.5m) pool, earth bank, sandy bank, detritus 1-10%, sticks 1-10%, branches 1-10%, logs 1-10%
Potential for Fish Habitat at Site: Ephemeral watercourse with earth dam approx 100 m downstream. Will be dry as dam contracts. No detritus or woody debris.	Mapped Risk of Impact to Fish Passage: Low
Wetland Indicator Plants: Fringing of sedges and rushes.	Fish Species Opportunistically Detected: none detected

Project: K-REP Waterway Assessment

Photos

Upstream

Downstream



Comments:
Suggested Definition: Watercourse

Project: K-REP Waterway Assessment

Assessor/Field Staff: Bruce McLennan	Date: 26/5/21
Site: Unnamed gully SO1	Survey: Watercourse
Landform: stream	Coordinates: -27.2487, 150.8236
Weather Condition: Fine and mild	Type of Work being carried out: Waterway assessment
Site Access: Forest Road	Comments: meandering gully
Waterway Features	
Condition: good	Recent Rainfall: 29 mm in previous two weeks
Waterway type: natural	Flow Condition: not flowing
Likely Flow Permanence: ephemeral	Habitat Types in 100 m Reach, centred on site: Eucalyptus crebra/Allocasuarina luehmannii woodland
Artificial or Natural Waterway (e.g. channelization): natural	Well Defined Bed and Banks (Y/N): no
Bank Soil/Sediment Type: clay/sand	Slope Along Reach: flat 0-10°
Bed Sediment Composition (%): - Bedrock: - Boulder (>256 mm): - Cobble (64-256 mm): - Pebble (4-64 mm): - Gravel (2-4 mm): - Sand (0.05-2 mm): - Silt/Clay (<0.05 mm): 100	Bankfull Height: NA
	Bankfull Width: NA
Maximum Water Depth Observed: 0.3m	Low-flow Channel Width: 3m
Bank Slope: poorly defined bank	Continuous Bank/Bed Up/Downstream: continuous
Broken/Continuous section of Bank/Bed: broken	Suggested Definition: watercourse
Channels Upstream/Downstream: broken	Bank/Bed Erosion Extent and Type: minor, gully
Connectivity to other Waterbodies: feeds into Moramby Creek, to Wilkie Creek which feeds Condamine River	Fish Habitat Upstream: Fringing non-woody, fringing woody, shallow (<0.3m) pool, earth bank, sandy bank
Freshwater or tidally influenced: freshwater	Fish Habitat Downstream: nonexistent, overland flow through woodland till banks reform
Potential for Fish Habitat at Site: Minimal fish habitat at site, waterhole upstream is free draining and very short term.	Mapped Risk of Impact to Fish Passage: Low
Wetland Indicator Plants: Fringing of sedges and rushes.	Fish Species Opportunistically Detected: none detected
Photos	

Project: K-REP Waterway Assessment

Upstream

Downstream



Comments:
Suggested Definition: Natural drainage

Access Corridor - Waterway Assessment

Project: K-REP Waterway Assessment	
Assessor/Field Staff: Ben Nottidge	Date: 24/5/21
Site: Moramby Creek SO2	Survey: Watercourse
Landform: stream	Coordinates: -27.2541, 150.8493
Weather Condition: Fine and mild	Type of Work being carried out: Waterway assessment
Site Access: Forest Road crossing	Comments:
Waterway Features	
Condition: average	Recent Rainfall: 29 mm in previous two weeks
Waterway type: natural	Flow Condition: trickle
Likely Flow Permanence: seasonal	Habitat Types in 100 m Reach, centred on site: open to closed Callitris/Eucalypt forest
Artificial or Natural Waterway (e.g. channelization): natural	Well Defined Bed and Banks (Y/N): yes
Bank Soil/Sediment Type: silt/loam	Slope Along Reach: flat <10°
Bed Sediment Composition (%): - Bedrock: 90% - Gravel (2-4 mm): 5% - Boulder (>256 mm): - Sand (0.05-2 mm): 5% - Cobble (64-256 mm): - Silt/Clay (<0.05 mm): - Pebble (4-64 mm):	Bankfull Height: 0.6m
	Bankfull Width: 12m
Maximum Water Depth Observed: 0.6m	Low-flow Channel Width: 3m
Bank Slope: Low 11-30°	Continuous Bank/Bed Up/Downstream: continuous
Broken/Continuous section of Bank/Bed: Continuous	Suggested Definition: watercourse
Channels Upstream/Downstream: continuous	Bank/Bed Erosion Extent and Type: minimal gully
Connectivity to other Waterbodies: feeds into Wilkie Creek which feeds Condamine River	Fish Habitat Upstream: Fringing non-woody, fringing woody, shallow (<0.5m) pool, undercut bank, rocky banks, earth bank
Freshwater or tidally Influenced: freshwater	Fish Habitat Downstream: Fringing non-woody, fringing woody, shallow (<0.5m) pool, undercut bank, 1-10% detritus, 1-10% sticks, earth banks, rocky banks
Potential for Fish Habitat at Site: occasional waterholes that may contain fish for full season, fringing non-woody, fringing woody, shallow (<0.5m) pool, undercut bank, 1-10% sticks, earth banks, rocky banks	Mapped Risk of Impact to Fish Passage: Moderate (Amber)
Wetland Indicator Plants: limited due to bedrock nature of site. Fringing vegetation is sparse.	Fish Species Opportunistically Detected: none detected

Project: K-REP Waterway Assessment

Photos

Upstream

Downstream



Comments:
Suggested Definition: Watercourse