Appendix C1

Application to Remove Native Vegetation

Prepared for
Lightsource Development Services Pty Ltd
ABN: 26 623 301 799

AECOM

West Mokoan Solar Project

Application to Remove Native Vegetation

16-Jun-2025
West Mokoan Solar Project

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West Mokoan Solar Project

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1.0 Introduction

1.1 Project Background

The Kennedys Creek Solar Farm (PA1900684-1) and West Mokoan Solar Farm (PA2000978) are being developed as a single project, known as the West Mokoan Solar Project (the Project), by Lightsource Development Services Australia Pty Ltd (Lightsource bp).

AECOM Australia Pty ltd (AECOM) was engaged to update the flora and fauna assessment to support a new planning permit application being made under the *Planning and Environment Act 1987* (P&E Act) for the now single West Mokoan Solar Project. Based on the outcome of that work, a new Application to Remove Native Vegetation has been prepared for the Project.

This application details the ecological impacts resulting from the development of the Project within the study area, in the context of relevant Victorian and Commonwealth policy and legislation

The application has been prepared to distinguish between native vegetation losses proposed as per the Project Design (Section 0) and Inadvertent Losses that have occurred on the Project land without the required permits in the past five years (Section 3.0). The application requirements as set out in the *Guidelines for the removal, destruction or lopping of native vegetation* (DELWP, 2017) (the Guidelines) are provided in Section 5.0.

This application should be read in conjunction with the West Mokoan Solar Project: Flora and Fauna Assessment Report (AECOM, 2025).

1.2 Project application requirements

The study area contains location categories 1, 2 and 3 and greater than 0.5 hectares of native vegetation. Therefore, the application to remove native vegetation will be assessed under the *detailed* pathway of assessment.

A pre-application meeting was held with the Victorian Government Department of Energy, Environment and Climate Change (DEECA) on 1 May 2024 with follow-up advice received on 16 May 2024. To satisfy the objectives of *Clause 52.17 of the Benalla Planning Scheme* (Clause 52.17) and the incorporated documents the Project was requested to provide::

- An updated Native Vegetation Removal (NVR) Report for all current proposed native vegetation removal.
- An updated Avoid and Minimise statement that clearly focuses on the proposed changes to the design layout since the original permit(s) and resultant native vegetation impacts as well as detailed justification for any new native vegetation impacts and why the proposed redesign is required. Further efforts to minimise the impacts on native vegetation should be outlined.
- A new Offset statement, including revised evidence of a compliant native vegetation offset being available on the Victorian Native Vegetation Credit Register, and including all/total amended requirements.

Further engagement was undertaken with DEECA and the Victorian Department of Transport (DTP) in November 2024 and early 2025 to understand the implications of native vegetation loss (not attributed to the Project) that has occurred on the same property as the current application in the past five years. DEECA advised that these should be treated as past losses and the following steps should be undertaken to present the total loss for the current application and address the ‘no net loss’ objectives of the Guidelines:

- One Native Vegetation Removal (NVR) Report is required for all native vegetation to be considered as part of the application, which should include currently proposed vegetation for removal, and all inadvertent/unauthorised losses/impacts that have occurred. Further to this DEECA advised that it is possible to include a split permit condition and separate NVRs can be generated to provide the separate offset requirements, but in combination they must account for the total NVR and offsets required.

- Unexplained/ additional removal of trees and grassland areas need to be presented in one NVR report but with all removals (past removals and design losses/removals) to be included as part of the ‘extent’ of native vegetation to be removed under the current application.
- The ‘partial’ removal method can be applied for the area of Plains Woodland Habitat Zones that were cleared provided no trees are removed and the whole patch is still mapped in the NVR mapped tool. The canopy trees mapped within this area remain (were not removed) and the native vegetation removal was limited to the native grass understorey (groundcover) being converted to crop therefore ‘partial removal’ will be applied.
- The Project should include robust justification for how native vegetation removal has been avoided and minimised, and overall, how the project achieves the ‘no net loss’ objective of the Guidelines, which could include an onsite rehabilitation strategy (e.g. in the area of native grassland that has been illegally cleared).

2.0 Loss of native vegetation – Concept Design

The Concept Design will result in the removal of up to 2.845 ha of native vegetation comprised of 0.063 ha of native vegetation patches (Table 1) and 46 Trees (Table 2) including 42 Scattered Trees (38 large and four small) equating to an extent of 2.782 ha in the NVR and four Large Trees in Patches included in the extent of native vegetation patches.

Tree losses contribute to most of the Project-related native vegetation impacts. Table 2 has been included below to outline the trees that were previously approved to be removed under West Mokoan Solar Farm (Ref PA2000978) and Kennedys Creek Solar Farm (Ref PA1900684), and those additional trees that are now included in native vegetation losses (new design losses).

Native vegetation proposed to be removed is shown in Appendix A (Figure 4). The NVR report is presented in Appendix B.

Table 1 Native vegetation patches to be removed

EVC No.	EVC Name	Bioregion BCS	Habitat Zone Reference	Extent (ha)
125	Plains Grassy Wetland	Endangered	Habitat Zone 2a, 3a & 3b	0.031
235	Plains Woodland/Herb-rich Gilgai Wetland Mosaic	Endangered	Habitat Zone 34	0.032

Table 2 Trees to be removed within the study area – Design Losses

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal (previous permit application)	Previous EnSym/NVR Tree ID	Loss reason (combined project and new Concept Design)
Kennedys Creek Solar Farm									
ST2	Grey Box	*Eucalyptus microcarpa*	172	Large Scattered Tree	413580.592500000260770	5959942.006099999882281	No		Not identified in AECOM (2020). New Design loss
ST3	Stag		125	Large Scattered Tree	413561.675800000317395	5959908.818300000391901	No		Not identified in AECOM (2020). New Design loss
ST4	Stag		86	Large Scattered Tree	413284.827499999664724	5959425.087100000120699	No		Not identified in AECOM (2020). New Design loss
ST112	Stag		135	Large Scattered Tree	413264.564100000075996	5959944.627399999648333	Yes		
ST130	Grey Box	*Eucalyptus microcarpa*	116	Large Scattered Tree	413287.242899999953806	5959568.947499999776483	Yes		
ST138	Grey Box	*Eucalyptus microcarpa*	175	Large Scattered Tree	413369.629399999976158	5959448.838200000114739	Yes		

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal (previous permit application)	Previous EnSym/NVR Tree ID	Loss reason (combined project and new Concept Design)
ST221	Stag		100	Large Scattered Tree	412960.349399999715388	5958662.378899999894202	Yes		
ST222	Grey Box	*Eucalyptus microcarpa*	105	Large Scattered Tree	414058.433199999853969	5959122.737999999895692	Yes		
ST224	Stag		120	Large Scattered Tree	413250.767599999904633	5959820.792700000107288	Yes		
ST241	Grey Box	*Eucalyptus microcarpa*	203	Large Scattered Tree	414008.906899999827147	5958988.784300000406802	Yes		
ST244	Grey Box	*Eucalyptus microcarpa*	122	Large Scattered Tree	413561.293200000189245	5958811.068500000052154	Yes		
ST250	Stag		114	Large Scattered Tree	413329.837100000120699	5959521.365199999883771	Yes		
ST300	Grey Box	*Eucalyptus microcarpa*	123	Large Scattered Tree	414015.314500000327826	5959417.586000000126660	Yes		
ST308	White Box	*Eucalyptus albens*	88	Large Scattered Tree	414436.691899999976158	5959493.833599999547005	Yes		

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal (previous permit application)	Previous EnSym/NVR Tree ID	Loss reason (combined project and new Concept Design)
ST311	Grey Box	*Eucalyptus microcarpa*	131	Large Scattered Tree	413747.356900000013411	5960084.936400000005960	Yes		
ST314	Stag		99	Large Scattered Tree	413611.901399999856949	5960087.847099999897182	Yes		
ST327	White Box	*Eucalyptus albens*	108	Large Scattered Tree	414316.842199999839067	5959618.517799999564886	Yes		
ST328	Grey Box	*Eucalyptus microcarpa*	122	Large Scattered Tree	413536.513299999758601	5960115.392900000326335	Yes		
ST336	Grey Box	*Eucalyptus microcarpa*	130	Large Scattered Tree	414090.016300000250340	5959628.461199999786913	No		New Design Loss (Concept Design change)
West Mokoan Solar Farm									
ST33	Grey Box	*Eucalyptus microcarpa*	25	Small Scattered Tree	411140.467100000008941	5963306.545900000259280	Yes	9	
ST52	Stag	Stag	139	Large Scattered Tree	411943.876500000245869	5962255.396800000220537	Yes	11	

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal (previous permit application)	Previous EnSym/NVR Tree ID	Loss reason (combined project and new Concept Design)
ST54	Grey Box	*Eucalyptus microcarpa*	141	Large Scattered Tree	411763.542100000195205	5962137.818500000052154	No		New design loss (Concept Design change)
ST78	Red Box	*Eucalyptus polyanthemos*	110	Large Scattered Tree	412108.163599999621511	5962764.545699999667704	No		New design loss (Concept Design change)
ST86	River Red-gum	*Eucalyptus camaldulensis*	30	Small Scattered Tree	412132.106499999761581	5962211.536500000394881	No		New design loss (transmission line)
ST88	River Red-gum	*Eucalyptus camaldulensis*	108	Large Scattered Tree	411908.027499999850988	5962563.907300000078976	No		New design loss (transmission line)
ST89	River Red-gum	*Eucalyptus camaldulensis*	76	Large Tree in Patch	411908.031200000084937	5962550.444600000046194	No		New design loss (transmission line)
ST90	River Red-gum	*Eucalyptus camaldulensis*	152	Large Tree in Patch	411901.400999999605119	5962552.233300000429153	No		New design loss (transmission line)

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal (previous permit application)	Previous EnSym/NVR Tree ID	Loss reason (combined project and new Concept Design)
ST91	River Red-gum	*Eucalyptus camaldulensis*	82	Large Tree in Patch	411899.404900000430644	5962556.005199999548495	No		New design loss (transmission line)
ST92	River Red-gum	*Eucalyptus camaldulensis*	105	Large Tree in Patch	411889.884999999776483	5962556.209400000050664	No		New design loss (transmission line)
ST115	River Red-gum	*Eucalyptus camaldulensis*	159	Large Scattered Tree	411507.147699999623001	5963278.450199999846518	Yes	19	
ST116	River Red-gum	*Eucalyptus camaldulensis*	109	Large Scattered Tree	411620.618400000408292	5963297.614400000311434	Yes	20	
ST119	River Red-gum	*Eucalyptus camaldulensis*	96	Large Scattered Tree	411779.443400000222027	5963535.164800000376999	Yes	21	
ST120	River Red-gum	*Eucalyptus camaldulensis*	141	Large Scattered Tree	411701.122999999672174	5963545.699799999594688	Yes	1	
ST121	River Red-gum	*Eucalyptus camaldulensis*	87	Large Scattered Tree	411730.673399999737740	5963469.144600000232458	Yes	22	

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal (previous permit application)	Previous EnSym/NVR Tree ID	Loss reason (combined project and new Concept Design)
ST122	River Red-gum	*Eucalyptus camaldulensis*	72	Large Scattered Tree	411653.825899999588728	5963441.094200000166893	Yes	23	
ST127	Grey Box	*Eucalyptus microcarpa*	215	Large Scattered Tree	412003.245099999941885	5963907.207999999634922	Yes	25	
ST143	River Red-gum	*Eucalyptus camaldulensis*	189	Large Scattered Tree	412023.168100000359118	5963770.064399999566376	Yes	26	
ST171	River Red-gum	*Eucalyptus camaldulensis*	143	Large Scattered Tree	411943.033599999733269	5963624.518400000408292	Yes	29	
ST176	Grey Box	*Eucalyptus microcarpa*	207	Large Scattered Tree	411577.577999999746680	5963642.854600000195205	No		New design loss (Concept Design change)
ST184	Grey Box	*Eucalyptus microcarpa*	160	Large Scattered Tree	410448.262299999594688	5964422.680999999865890	Yes	30	
ST204	Stag	Stag	80	Large Scattered Tree	411342.187800000421703	5964357.389000000432134	Yes	34	

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal (previous permit application)	Previous EnSym/NVR Tree ID	Loss reason (combined project and new Concept Design)
ST220	Grey Box	*Eucalyptus microcarpa*	110	Large Scattered Tree	411561.305300000123680	5964260.955500000156462	Yes	37	
ST231	Stag	Stag	99	Large Scattered Tree	411417.601700000464916	5964539.159099999815226	Yes	33	
ST270	Grey Box	*Eucalyptus microcarpa*	130	Large Scattered Tree	412048.813799999654293	5964555.085699999704957	Yes	41	
ST294	River Red-gum	*Eucalyptus camaldulensis*	10	Small Scattered Tree	410947.556499999947846	5964000.309500000439584	No		New design loss (Concept Design change)
ST351	Grey Box	*Eucalyptus microcarpa*	55	Small Scattered Tree	410071.864699999801815	5964725.073800000362098	Yes	43	

3.0 Loss of native vegetation – Inadvertent Losses

Native vegetation losses have occurred on the same property as the project application that are not attributed to the Project. These losses are referred to as Inadvertent Losses and include the removal of native vegetation patches (partial removal) and scattered trees. In alignment with the Guidelines (DELWP, 2017) these losses are considered as native vegetation 'removed without the required approvals' on the same property within the last five years and are documented under Application Requirement 4 (See Section 5.0).

A total of 13.173 ha of Plains Woodland EVC and 29 trees have been inadvertently lost since the original Vegetation Quality Assessment was completed in 2019.

The Plains Woodland loss occurred due to the understorey of native grasses being converted into a crop. The tree component of the Plains Woodland patch was retained and therefore this loss is regarded as 'partial loss' for the purpose of calculating offsets.

The tree losses comprise four trees from Kennedys Creek Solar Farm site (all Scattered Trees) and 25 trees from the West Mokoan Solar Farm site (24 Scattered Trees and a single Large Tree in Patch).

Inadvertent Losses have resulted in the removal of 14.917 ha of native vegetation comprised of 13.173 ha of patches and 28 Scattered Trees that equate to an extent of 1.744 ha in the NVR (Appendix B).

The losses are presented below in Table 3 (Habitat Zones) and Table 4 (Trees). The NVR report for Inadvertent Losses is presented in Appendix B.

Table 3 Habitat zones removed within the study area – Inadvertent Loss

EVC No.	EVC Name	Bioregion BCS	Habitat Zone Reference	Extent (ha)
803	Plains Woodland	Endangered	Habitat Zones 36, 49 and 53	13.173

Table 4 Trees removed from the study area – Inadvertent Loss

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal	Previous Tree ID (from planning permit)	Loss reason (combined application and new Concept Design)
Kennedys Creek Solar Farm									
ST282	Stag		101	Large Scattered Tree	413816.855700000189245	5959540.569400000385940	No		Inadvertent loss
ST332	Stag		110	Large Scattered Tree	414184.001699999906123	5959844.243599999696016	No		Inadvertent loss
ST354	Stag		113	Large Scattered Tree	414058.589700000366608	5959774.803700000047684	No		Inadvertent loss
ST408	Stag		78	Large Scattered Tree	414720.211799999698997	5959203.667899999767542	No		Inadvertent loss
West Mokoan Solar Farm									
ST41	Grey Box	*Eucalyptus microcarpa*	10	Small Scattered Tree	411408.595599999651313	5962670.630400000140071	No		Inadvertent loss
ST50	Grey Box	*Eucalyptus microcarpa*	15	Small Scattered Tree	411744.807900000363588	5962517.393299999646842	No		Inadvertent loss
*ST51	Grey Box	*Eucalyptus microcarpa*	124	Large Scattered Tree	411755.923600000329316	5962445.106800000183284	Yes	10	Inadvertent loss

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal	Previous Tree ID (from planning permit)	Loss reason (combined application and new Concept Design)
ST53	River Red-gum	*Eucalyptus camaldulensis*	186	Large Scattered Tree	411982.7833	5962107.7526	No		Inadvertent loss
*ST68	Grey Box	*Eucalyptus microcarpa*	123	Large Scattered Tree	412138.609500000253320	5963119.108599999919534	Yes	14	Inadvertent loss
ST77	Grey Box	*Eucalyptus microcarpa*	118	Large Scattered Tree	412208.0668000000146031	5962769.312199999578297	No		Inadvertent loss
ST85	Stag	Stag	131	Large Scattered Tree	412003.183299999684095	5962467.607400000095367	No		Inadvertent loss
ST93	Red Box	*Eucalyptus polyanthemos*	130	Large Scattered Tree	411914.104100000113249	5962612.348100000061095	No		Inadvertent loss
ST97	Red Box	*Eucalyptus polyanthemos*	107	Large Scattered Tree	412010.433100000023842	5963012.153599999845028	No		Inadvertent loss
ST98	Red Box	*Eucalyptus polyanthemos*	71	Large Scattered Tree	412002.822499999776483	5963020.323900000192225	No		Inadvertent loss
ST104	Grey Box	*Eucalyptus microcarpa*	76	Large Scattered Tree	411797.604799999855459	5962541.179600000381470	No		Inadvertent loss

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal	Previous Tree ID (from planning permit)	Loss reason (combined application and new Concept Design)
ST105	Grey Box	*Eucalyptus microcarpa*	106	Large Scattered Tree	411807.183400000445545	5962557.890700000338256	No		Inadvertent loss
ST132	River Red-gum	*Eucalyptus camaldulensis*	205	Large Scattered Tree	411648.647300000302494	5963820.099700000137091	No		Inadvertent loss
ST133	Grey Box	*Eucalyptus microcarpa*	144	Large Scattered Tree	411569.837799999862909	5963777.653500000014901	No		Inadvertent loss
ST134	Grey Box	*Eucalyptus microcarpa*	90	Large Scattered Tree	411552.504900000058115	5963751.914200000464916	No		Inadvertent loss
ST135	Grey Box	*Eucalyptus microcarpa*	85	Large Tree in Patch	411552.062800000421703	5963727.224499999545515	No		Inadvertent loss
ST147	River Red-gum	*Eucalyptus camaldulensis*	195	Large Scattered Tree	411963.2167	5963306.6352	No		Inadvertent loss
ST149	Stag	Stag	44	Small Scattered Tree	412054.173299999907613	5963332.954300000332296	No		Inadvertent loss
ST154	Grey Box	*Eucalyptus microcarpa*	88	Large Scattered Tree	411245.4742	5963019.2169	No		Inadvertent loss

Tree ID	Common Name	Scientific Name	DBH	Tree Category	X-MGA 55	Y- MGA 55	Approved for removal	Previous Tree ID (from planning permit)	Loss reason (combined application and new Concept Design)
ST158	Grey Box	*Eucalyptus microcarpa*	122	Large Scattered Tree	411287.5871	5962673.4599	No		Inadvertent loss
ST163	Grey Box	*Eucalyptus microcarpa*	172	Large Scattered Tree	411011.251000000163913	5962937.075600000098348	No		Inadvertent loss
ST165	Red Box	*Eucalyptus polyanthemos*	25	Small Scattered Tree	411468.473100000061095	5962449.261699999682605	No		Inadvertent loss
ST166	Red Box	*Eucalyptus polyanthemos*	30	Small Scattered Tree	411476.333999999798834	5962452.846099999733269	No		Inadvertent loss
*ST178	Grey Box	*Eucalyptus microcarpa*	109	Large Scattered Tree	411742.582399999722838	5963696.543700000271201	Yes	2	Inadvertent loss
ST355	Grey Box	*Eucalyptus microcarpa*	90	Large Scattered Tree	411434.623100000433624	5964816.850399999879301	No		Inadvertent loss

*Trees that were included in the current removal application but have been removed without approval are treated as inadvertent losses.

4.0 Offset requirements

Offsets for native vegetation loss are required for the Project. The offset requirements presented below consider the Project Design Losses associated with the current Concept Design (West Mokoan Solar Farm_LP3-BDL_14 (KC_BDL_04)) outlined in Section 0 and the Inadvertent Loss outlined in Section 3.0. As requested by DEECA, the losses presented in Table 5 summarise the total combined loss of native vegetation required to be offset.

Offset requirements are identified through generation of Native Vegetation Removal (NVR) reports for the Combined Loss (total) as well as Design Loss and Inadvertent Loss. The three NVR reports are provided in Appendix B.

Table 5 Offset requirements – Design Loss, Inadvertent Loss and total Combined Loss requirements

Native vegetation removal type	Unit type	Amount	Minimum strategic biodiversity value score	Large trees	Credit location
Design Loss	**General offset amount**	0.5640	0.2531	42	Goulburn Broken CMA region or Benalla Rural City Council
Inadvertent Loss		2.6850	0.3367	25	
Total Combined Loss		3.2490	0.3233	67	

5.0 Application to remove native vegetation

The tables below provide the necessary information to inform the application under the 'Detailed' pathway. The application focuses on Project-related design.

Number	Application requirement
1	Native Vegetation Removal Report
Response	See Appendix B Three NVR reports are provided in accordance with advice received from DEECA due to the nature of losses (project Design and Inadvertent Loss) and the quantification of offsets for each loss type: • One for the Combined (total) Loss (i.e. Design and Inadvertent Loss) • One for the Design Loss only (losses attributed to the Project Design) • One for Inadvertent Loss only (losses that are not attributed to the Project but occurred on the property in the past 5 years).

Number	Application requirement
2	Topographic and land information relating to the native vegetation to be removed, showing ridges, crests and hilltops, wetlands and waterways, slopes of more than 20 percent, drainage lines, low lying areas, saline discharge areas, and areas of existing erosion, as appropriate. This may be represented in a map or plan.
Response	See Appendix B It is noted the assessment area is generally of very low relief which is characteristic of land located within the Victoria Riverina bioregion. Low-lying areas, DEECA mapped wetlands and drainage lines are also represented. The assessment area does not contain steep slopes, existing erosion and saline discharge areas.

Number	Application requirement
3	Recent, dated photographs of the native vegetation to be removed
Response	See below for a representative sample of the vegetation to be removed. Photos of scattered trees within the Kennedys Creek Solar Farm and West Mokoan Solar Farm were taken during the field assessments (Feb-March 2019), and photos of native vegetation to be removed for construction of the transmission line were taken during the field assessments of the site in 2022 and 2023. Additional photos are provided in the following reports that support the overarching West Mokoan Solar Project Flora and Fauna Assessment Report: • West Mokoan Solar Farm: Flora and Fauna Assessment Report (AECOM, 2021) • Kennedys Creek Solar Farm: Flora and Fauna Assessment (AECOM, 2023) • Kennedys Creek Solar Farm: Transmission Line Ecological Assessment Report (AECOM, 2024a) • Kennedys Creek Solar Farm: Project Amendment Addendum (AECOM, 2024b) • West Mokoan Solar Farm: Project Amendment Addendum (AECOM, 2024c)

Example of Plains Grassy Wetland EVC within swale drain, Boundary Road (HZ3). Date: Feb-March 2019

Representative photo of large scattered tree within study area

Representative photos of large scattered trees to be removed

Representative photo of large scattered trees and stags (background)

Representative photos of large scattered trees inadvertently lost

Representative photos of large scattered trees inadvertently lost

Representative photos of Plains Woodland (EVC 803) native vegetation loss (previously HZ53).

Representative photos of Plains Woodland (EVC 802) native vegetation loss (previously HZ53). Photo shows partial loss of the habitat zone with native trees retained.

Number	Application requirement
4	Details of any other native vegetation approved to be removed, or that was removed without the required approvals, on the same property or on contiguous land in the same ownership as the applicant in the five-year period before the application for a permit was lodged.
Response	A total of 13.173 ha of Plains Woodland EVC (partial loss) and 29 trees have been removed from the study area without the required approvals in the past five years. Lightsource bp has not commenced works on the site, therefore these removals are not a result of the Project. The 29 trees removed comprised the following tree types: • 24 Large Scattered Trees • 1 Large Trees in Patches • 4 Small Scattered Trees The trees are not exempt from requiring a permit for removal as per the *Exemptions from requiring a planning permit to remove, lop or destroy native vegetation* (DELWP, 2017) The inadvertent native vegetation losses are shown in Figure 1 (Appendix A) and are included in loss calculations and the NVR report for combined (total) loss (Appendix B).

Number	Application requirement
5	An avoid and minimise statement. The statement describes any efforts to avoid the removal of and minimise the impacts on the biodiversity and other values of native vegetation, and how these efforts focused on areas of native vegetation that have the most value. The statement should include a description of the following: • Strategic level planning – any regional or landscape scale strategic planning process that the site has been subject to that avoided and minimised impacts on native vegetation across a region or landscape. • Site level planning – how the proposed use or development has been sited or designed to avoid and minimise impacts on native vegetation. • That no feasible opportunities exist to further avoid and minimise impacts on native vegetation without undermining the key objectives of the proposal.
Response	**Strategic level planning:** The previous proponent (South Energy) engaged with the Benalla Rural City Council during the associated solar farm site selection process. Through this process the study

area was identified as a suitable location for a solar farm and associated infrastructure (inclusive of the transmission line) due to the land being zoned as Industrial and access to existing transmission powerline to tie-in the solar farm.

Adjoining land parcels were considered in the site selection process. Adjoining landowners were not interested in joining the project due to existing land uses.

Strategic level planning was also undertaken in accordance with the requirements of regional policy, namely the *Goulburn Broken Regional Catchment Strategy (2013-2019).* The RCS highlights the importance of biodiversity within the region, including the important habitat that native vegetation provides for many species. The RCS also identifies the dominant land use within the Catchment as being privately owned land used for dryland agriculture. Waterways, floodplains and wetlands are an integral part of the Catchment due to their environmental, social and economic values. The vision of the RCS aims to achieve healthy, resilient and increasingly productive landscapes supporting vibrant communities.

The RCS provides the strategic framework for aligning sub-strategy implementation by listing the sub-strategies' 20 to 30-year objectives for biodiversity, land, water and people. The Biodiversity Strategy outlines a series of management measures to meet biodiversity objectives and prioritises geographic areas for two main actions: 1) protecting ecosystem services and 2) enhancing existing remnant vegetation through corridors and linkages.

The RCS identifies Benalla as located within 'Productive Plains'. It is highlighted that conservation reserves are too few and small to sustain wildlife, however, the area can be considered fragmented with potential for revegetation and connection of remnant patches. The focus for the area of 'Productive Plains' includes to increase native vegetation areas and connections to Soulburn and Broken Rivers, Holland and Hughes Creek and Winton Wetland.

Consideration of the RCS is demonstrated through the following engagement with local authorities and stakeholders as well as project design refinements outlined in the site level planning section below.

- Consultation was undertaken with the Winton Wetlands Committee of Management (refer to Appendix S – Landowner's Consent of the Planning Report (AECOM, 2024)) and support was provided for the Project
- The GBCMA and GMW were supportive of the Project and written advice was received confirming that they would not object to the proposed solar farm, subject to conditions (refer to Appendix I – Surface Water Assessments, and Appendix S – Landowner's Consent of the Planning Report (AECOM, 2024))
- The layout of the solar farm was designed to ensure that minimum setbacks of 15 metres from waterways were achieved in accordance with advice received from the GBCMA (refer to Appendix I – Surface Water Assessments of the Planning Report (AECOM, 2024))
- Solar panels are proposed to be elevated in flood prone areas, as shown on the Concept Plan, in accordance with advice received from the GBCMA (refer to Appendix I – Surface Water Assessments of the Planning Report (AECOM, 2024))
- There has been ongoing consultation with the Country Fire Authority (CFA) to discuss the design response and approach to addressing the CFA Guidelines (see Section 1.4.3 and Appendix E – Preliminary Hazard Analysis and Fire Safety Study of the Planning Report (AECOM, 2024)

Site level planning:

The proponent for this development has invested significant effort in ensuring that the ultimate Concept Plan for the Project has avoided and minimised impacts to those areas of the site that have been identified as containing higher biodiversity value. The Project has consolidated the three components – West Mokoan Solar Farm, Kennedys Creek Solar Farm and the transmission line – into a single project and permit application. The avoid and minimise efforts attributed to each component are outlined

below with a summary of any additional recent changes that have been prioritised to further demonstrate a commitment to avoiding or minimising impacts to areas of higher ecological value.

Kennedys Creek Solar Farm:

Initially, a desktop assessment was undertaken to review DEECA's Strategic Biodiversity Value mapping, past records of significant flora, vegetation communities and fauna species that have been recorded from within the site, or within close proximity to the property boundaries.

This assessment informed the due diligence of the suitability of the site for a solar farm, informed the early design of the proposed facility, and informed the scope of the detailed site assessments that followed.

Detailed assessments and analysis to establish the ecological values of Kennedys Creek Solar Farm are outlined in AECOM (2020). The assessments included a broad ecological constraints assessment conducted from the 13-14 February 2019 followed by detailed ecology surveys including:

- VQA survey undertaken from the 20-21 March and 25 July 2019.
- A tree habitat value assessment for the solar farm undertaken on 6-8 April 2022
- Updated VQA survey and habitat assessment for Striped Legless Lizard undertaken on 21-25 October 2024.

A GIS based habitat connectivity assessment (tree proximity analysis) was also undertaken early in the Project to determine those trees on the site that should be a higher priority for retention based on their regional habitat connectivity (see AECOM 2020 – Appendix G). This was completed early in the inception of the Project to prioritise areas for retention for development of the Concept Design.

An iterative design process was undertaken by the Project to avoid impact to the ecological values identified by those investigations which included prioritising retention of:

- Patches of native vegetation (AECOM 2024c – Figure 3)
- Areas with a Strategic Biodiversity Value of >0.4 in NatureKit (AECOM 2025 - Figure 7)
- Trees assigned higher proximity ratings via a habitat connectivity / tree proximity analysis (AECOM 2025 - Figure 8)
- Trees with a high or medium habitat value (based on those trees identified for removal) (AECOM 2025 - Figure 5)

Through the iterative design process, AECOM and Lightsource bp have achieved a concept design which:

- Avoids all patches of native vegetation within the Kennedys Creek Solar Farm.
- Retains all native vegetation in areas of DEECA modelled SBV >0.4.
- Minimises tree losses to 19 Large Scattered Trees. Tree removals are limited to Category 2 trees only.

West Mokoan Solar Farm:

Detailed assessments and analysis to establish the ecological values of the study area are outlined in AECOM (2021). The assessments included a broad ecological constraints assessment conducted from the 13-14 February 2019 followed by detailed ecology surveys including:

- VQA assessments undertaken from 20-21 March and 25 July 2019
- A tree habitat value assessment and habitat survey for Striped Legless Lizard undertaken on 16 December and 19-20 December 2021
- VQA assessment and Striped Legless Lizard habitat assessment for 81 Lake Mokoan Road undertaken on 12 December 2022
- Updated VQA undertaken on 21-25 October 2024.

As above, a GIS based 'habitat connectivity assessment' (tree proximity analysis) was also undertaken early in the project to determine those trees on the site that should be a higher priority for retention based on their regional habitat connectivity.

An iterative design process was undertaken by the Project to avoid impact to the ecological values identified by those investigations which included:

- Patches of native vegetation (AECOM 2024e -Figure 3)
- Areas with a Strategic Biodiversity Value of >0.4 in NatureKit (AECOM 2025 - Figure 7).
- Trees assigned higher proximity ratings via a habitat connectivity / tree proximity analysis (AECOM 2025 -Figure 8).
- Trees with a high or medium habitat value (based on those trees identified for removal) (AECOM 2025 -Figure 5).
- Habitat for Striped Legless Lizard (AECOM 2025 – Figure 6).

Through the iterative design process, AECOM and Lightsource bp have achieved a design which:

- Avoids larger patches of native vegetation, particularly those in the northern extent of the study area
- Avoids all potential habitat for Striped Legless Lizard identified to date
- Minimises tree losses to 23 Scattered Trees (19 large and four small trees) and four Large Trees in Patches – Trees to be removed include 20 Category 3 trees, and three Category 2 trees.
- Noting that only 23 large trees are proposed to be removed due to the Concept Design which is a lower number of trees compared with that previously permitted for removal (26 permitted under PA2000978).
- Retains 14 trees that were previously approved for removal under planning permit PA2000978.

Transmission line:

Assessments and analysis to establish the ecological values of the transmission line study area are outlined in AECOM (2024a). The transmission line ecological assessment and a tree habitat value assessment for the solar farm was undertaken on 6-8 April 2022 to guide additional refinements to the concept design. Further assessment for Striped Legless Lizard habitat was undertaken for the transmission line on 12-13 December 2022.

An iterative process was undertaken to determine the route for the transmission line. The connection point in West Mokoan Solar Farm was moved to south of Stockyard Creek to avoid the Trust for Nature conservation area to the north and minimise amenity impacts to neighbouring residences.

Once the new connection point was confirmed, several options were considered to determine the preferred transmission line route and construction method (overhead or underground). The assessment identified the preferred transmission line route would be sited between the existing AusNet 220kV transmission lines and Boundary Road/Dam Wall Road. Construction access would be via the Kennedys Creek and West Mokoan Solar Farm sites making use of previously approved access points and avoid the need to access via Snowy Lane which supports patches of Riverina Plains Grassy Woodland along the roadsides.

The Project further revised the study area following completion of the existing conditions flora and fauna assessment to avoid several patches of native vegetation within 368 Benalla-Yarrawonga Road, Benalla. The refinements to construction and working areas means that the majority of native vegetation recorded along Boundary Road/Dam Wall Road will be retained including all Riverina Plains Grassy Woodland EVCs and the single Large Scattered Tree (stag) supporting tree hollows. The location of the nine poles to be constructed along each solar farm boundary have been sited to avoid native vegetation, with only two poles impacting native vegetation (small areas of

HZ2a, HZ3a and HZ3b) totalling 0.194 ha. Native vegetation in areas of DEECA modelled SBV >0.4 have been retained.

Comparison between previous permit approvals and the current permit application

The project has maintained a similar Concept Design to those presented as part of previous permit applications in order to retain the highest number of trees possible. The Project amendment addendum reports prepared for the West Mokoan Solar Farm Project (AECOM 2024d) and the Kennedys Creek Solar Farm project (AECOM 2024c) reviewed the revised project Concept Plans and identified any additional native vegetation removals required as part of the design updates. The outcomes of the design changes and proposed additional native vegetation removals are summarised as follows:

- Kennedys Creek Solar Farm: a total of four Large Scattered Trees were included in the revised Concept Plan as additional native vegetation removals. These removals accounted for three trees not previously recorded during Vegetation Quality Assessments in 2019 and a single tree that was required to be removed due to the Concept Design update (AECOM, 2024c).
- West Mokoan Solar Farm: a total of three Scattered Trees (two large and one small) and a single patch of vegetation (comprising four Large Trees in Patches) were included in the revised Concept Plan as additional native vegetation removals. These removals were required due to changes to the panel array and the inclusion of the new transmission line (AECOM 2024d).

However, a number of inadvertent losses have changed the quantum of native vegetation removal on the property between 2019 and the current combined permit application. A total of 13.173 ha of Plains Woodland EVC and 29 trees have been inadvertently lost since the original Vegetation Quality Assessment was completed in 2019. The Plains Woodland loss occurred due to the understorey of native grasses being converted into a crop.

A comparison of the previously permitted native vegetation removals (for the two solar farms as separate entities) and the current application (West Mokoan Solar Project) is provided in the Table 6below. A comparison of the native vegetation permitted to be removed, and the current application is presented in Appendix A Figure 3.

Table 6 comparison of native vegetation permitted for removal under previous permits and the current application.

Permit number	Extent of proposed vegetation removal (ha)	Number of Large Trees in Patches and large Scattered Trees (LST) proposed to be removed	Number of small Scattered SST) proposed to be removed
West Mokoan Solar Farm (PA2000978)	1.891	26	2
Kennedys Creek Solar Farm (PA1900684-1)	1.963	20	-
Current permit application	2.845 (Design) 14.917 (Past) **Total: 17.762**	42 (Design) 25 (Past) **Total: 67**	4 (Design) 4 (Past) **Total: 8**

The role of native vegetation to be removed:

The removal of native vegetation will ultimately result in the loss of habitat for fauna including:

- Woodland birds listed under the EPBC Act and FFG Act including Southern Whiteface, Regent Honeyeater, Gang-gang Cockatoo, Brown Treecreeper, Painted Honeyeater, Swift Parrot, Hooded Robin, Superb Parrot, Diamond Firetail, Bush Stone-curlew, Diamond Dove, Turquoise Parrot, Grey-crowned Babbler and Speckled Warbler which may utilise trees within the study area as stepping stones between larger areas of woodland habitat or as part of foraging habitat.
- Migratory birds including Fork-tailed Swift, White-throated Needletail (aerial foragers) and Common Greenshank (wetland bird)
- Grey-headed Flying-fox which may utilise trees within the study area on occasion during movements from their camp at Cussen Park in Tatura.
- Lace Monitor which may use trees as stepping stones between larger areas of woodland habitat.
- Reptiles such as Bearded Dragon which may use woodland and derived grasslands. There is also potential habitat for Striped Legless Lizard.
- The small areas of Plains Grassy Wetland EVC to be removed within the swale drain running parallel with Boundary Road will periodically fill with water and provide habitat for wetland birds such as Eastern Great Egret and Plumed Egret which will likely use the swale drain on occasion for hunting.
- Squirrel Glider and Brush-tailed Phascogale which may utilise large trees within the study area, particularly those trees with high habitat values and a variety of hollow types.

The removal of scattered trees and small patches will also result in a reduction of the FFG Act listed Victorian Temperate Woodland Bird Community and contribute to an FFG Act threatening process *- loss of hollow-bearing trees from Victorian native forests and woodlands.*

The need to manage native vegetation to preserve identified landscape values:

The design of this Project has taken the existing landscape values (particularly large remnant trees) into account and minimised the extent of native vegetation losses.

Whether any part of the native vegetation to be removed, destroyed or lopped is protected under the Aboriginal Heritage Act 2006:

Vegetation to be removed is not identified in the draft complex Cultural Heritage Management Plan No. 18734 (AECOM 2022) as areas of Aboriginal cultural heritage sensitivity or an Aboriginal place recorded on the Victorian Aboriginal Heritage Register (VAHR).

Consider the impacts on habitat for rare or threatened species:

The Project has been designed to avoid impacting on habitat for rare and threatened species by avoiding removal of native vegetation where possible. The results of ecology technical studies have informed the iterative design process to avoid and minimise impacts to habitat for rare and threatened species. As a result, no species offsets are required.

No feasible opportunities exist to further avoid and minimise impacts on native vegetation:

Due to the engineering requirements of the project no further opportunities exist to reduce the extent of vegetation loss for this project. The project has undertaken extensive refinement of the concept to maximise avoidance of native vegetation patches and trees while achieving a functional and feasible design.

The key design and engineering constraint relevant to tree retention is the specific layout of trackers and solar array panels which come in set lengths specified by the

	manufacturer. The trackers are orientated in a north-south direction to track the sun throughout the day; thus, given the length and orientation of tracker rows, avoiding all trees is not possible. The project also acquired the development with an approved layout/development footprint and associated constraints.

Number	Application requirement
6	A copy of any Property Vegetation Plan contained within an agreement made pursuant to section 69 of the *Conservation, Forests and Lands Act 1987* that applies to the native vegetation to be removed.
Response	No Property Vegetation Plan applies to the site

Number	Application requirement
7	Where the removal of native vegetation is to create defendable space, a written statement explaining why the removal of native vegetation is necessary. This statement must have regard to other available bushfire risk mitigation measures. This statement is not required when the creation of defendable space is in conjunction with an application under the Bushfire Management Overlay.
Response	Not applicable

Number	Application requirement
8	If the application is under Clause 52.16, a statement that explains how the proposal responds to the Native Vegetation Precinct Plan considerations at decision guideline 8.
Response	Not applicable

Number	Application requirement
9	An offset statement providing evidence that an offset that meets the offset requirements for the native vegetation to be removed has been identified and can be secured in accordance with the Guidelines. A suitable statement includes evidence that the required offset: is available to purchase from a third party, or will be established as a new offset and has the agreement of the proposed offset provider, or can be met by a first party offset.
Response	An offset statement has been provided in Appendix C.

Number	Application requirement
10	A site assessment report of the native vegetation to be removed, including: A habitat hectare assessment of any patches of native vegetation, including the condition, extent (in hectares), Ecological Vegetation Class and Bioregional Conservation Status; The location, number, circumference (in cm measured at 1.3 metres above ground level) and species of large trees within patches; The location, number, circumference (in cm measured at 1.3 metres above ground level) and species of scattered trees and whether each tree is small or large.
Response	This Application to Remove Native Vegetation is supported by the following Flora and Fauna Assessment reports:

	• West Mokoan Solar Project (AECOM, 2025) which consolidates the native vegetation information contained in the following previous assessment reports: - Flora and Fauna Assessment Report: West Mokoan Solar Farm (AECOM, 2021) - Kennedys Creek Flora and Fauna Assessment (AECOM, 2023) - Kennedys Creek - Transmission Line Report (AECOM, 2024a) - Kennedys Creek Amendment Addendum Report (AECOM, 2024b) - West Mokoan Amendment Addendum Report (AECOM, 2024c) Figures that show the location and extent of ecological values are provided in AECOM 2025 (Appendix A). The proposed impacts to native vegetation including the location, number, circumference, and species of trees to be removed, as well as the patches (habitat zones) to be removed are detailed above in Section 2 – Project Concept Design (Table 1) and Section 3.0 – Inadvertent Losses (Table 2). Figures are shown in Appendix A – Figure 1 and Figure 2.

Number	Application requirement
11	Information about impacts on rare or threatened species habitat, including: The relevant section of the *habitat importance map* for each rare or threatened species requiring a species offset For each rare or threatened species that the native vegetation to be removed is habitat for, according to the Habitat importance maps: The species' conservation status The proportional impact of the removal of native vegetation on the total habitat for that species Whether their habitat are highly localized habitats, dispersed habitats, or important areas of habitat within a dispersed species habitat.
Response	Offsets necessary for the removals are general offsets only (See Appendix B - Native Vegetation Removal Report). During the site selection and vegetation avoid and minimisation process, effort has been taken to design the Project to avoid modelled habitats for rare or threatened species.

Appendix A

Figures

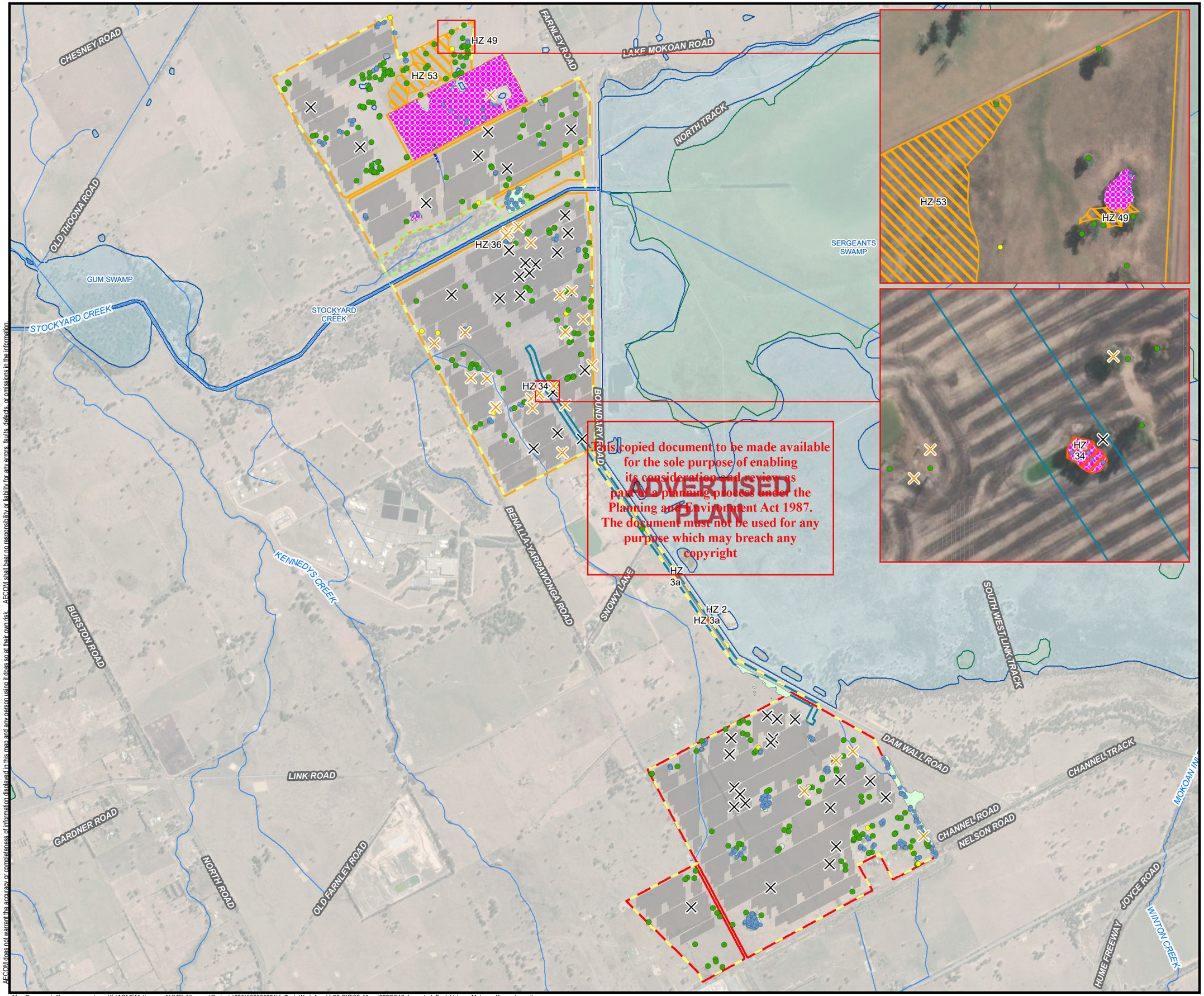
D R A F T

Appendix A Figures

Figure 1 **Impacted Ecological Values**

Figure 2 **Concept Plan**

Figure 3 **Comparison of native vegetation previously permitted for removal under PA2000978 (West Mokoan) and PA1900684-1 (Kennedys Creek) and the current application**



PROJECT ID 60585631
CREATED BY JB
LAST MODIFIED mcmahonj5 07 MAY 2025

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Coordinate System: GDA 1994 MGA Zone 55
0 100 200 400 600 800
metres
1:26,000 (when printed at A3)

LEGEND

- Kennedys Creek
- Proposed transmission line
- West Mokoan Study Area
- Conservation Zone
- Large Scattered Tree
- Large Tree in Patch
- Small Scattered Tree
- Project Area

Habitat Zone / Ecological Vegetation Class

- 125 Plains Grassy Wetland
- 175_61 Low Rises Grassy Woodland
- 235 Plains Woodland/Herb-rich Gilgai Wetland Mosaic
- 55_62 Riverina Plains Grassy Woodland
- 803 Plains Woodland

Vegetation loss

- Design loss
- Inadvertent loss
- Tree to be removed (TBRVDS): Design loss
- Tree to be removed (TBRVIL): Inadvertent loss
- Solar Farm Development Plan
- Watercourses
- Roadways
- Waterbodies
- Wetland

Impacted Ecological Values

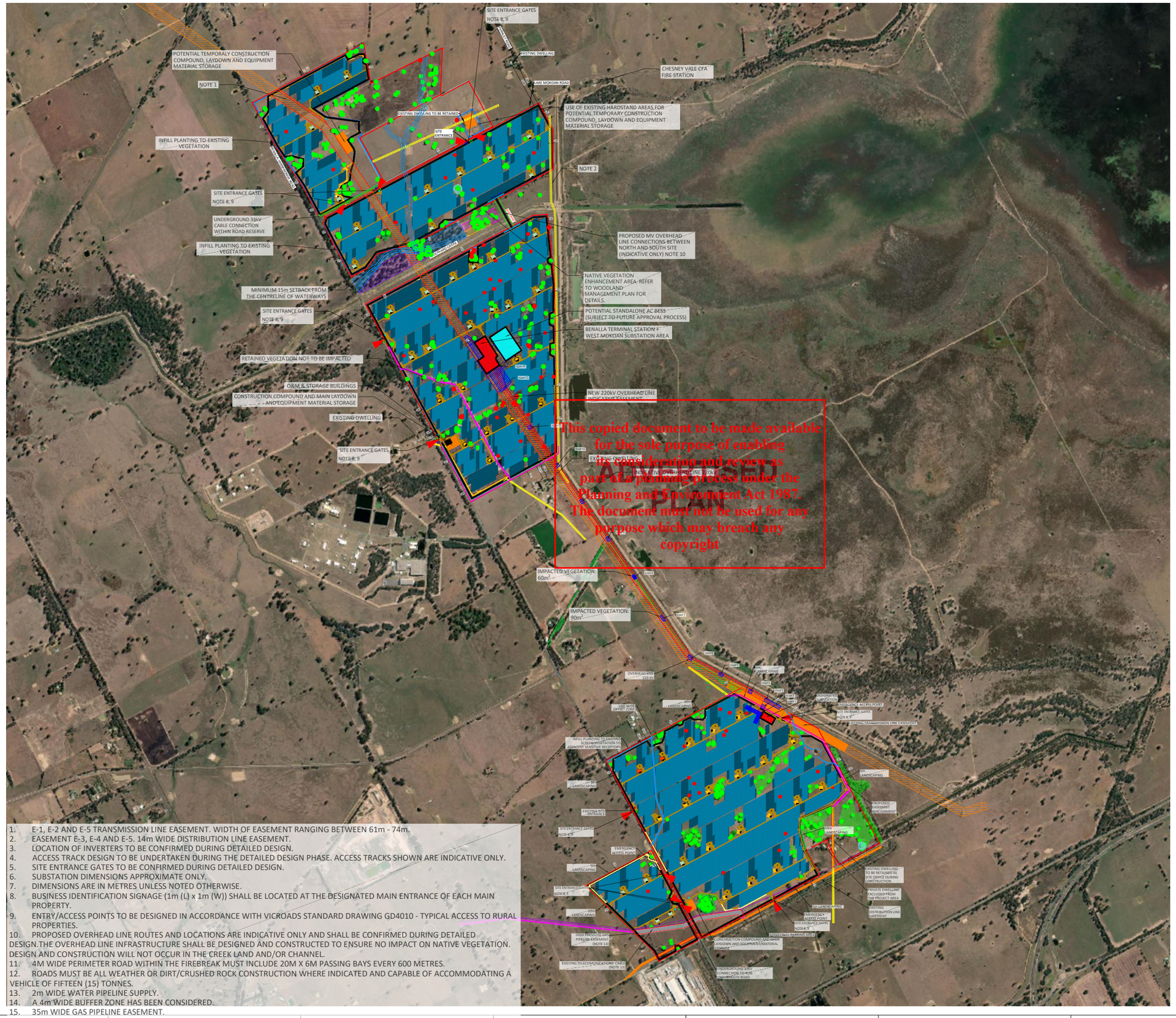
Lightsource BP

Kennedy Creek
West Mokoan
Solar Farm Planning Application

Benalla-Yarrawonga Rd, Goorambat VIC

Figure 1

West Mokoan Solar Farm_LP3-BDL_14 (KC_BDL_04) Planning



1. E-1, E-2 AND E-5 TRANSMISSION LINE EASEMENT. WIDTH OF EASEMENT RANGING BETWEEN 61m - 74m.
2. EASEMENT E-3, E-4 AND E-5. 14m WIDE DISTRIBUTION LINE EASEMENT.
3. LOCATION OF INVERTERS TO BE CONFIRMED DURING DETAILED DESIGN.
4. ACCESS TRACK DESIGN TO BE UNDERTAKEN DURING THE DETAILED DESIGN PHASE. ACCESS TRACKS SHOWN ARE INDICATIVE ONLY.
5. SITE ENTRANCE GATES TO BE CONFIRMED DURING DETAILED DESIGN.
6. SUBSTATION DIMENSIONS APPROXIMATE ONLY.
7. DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
8. BUSINESS IDENTIFICATION SIGNAGE (1m (L) x 1m (W)) SHALL BE LOCATED AT THE DESIGNATED MAIN ENTRANCE OF EACH MAIN PROPERTY.
9. ENTRY/ACCESS POINTS TO BE DESIGNED IN ACCORDANCE WITH VICROADS STANDARD DRAWING GD4010 - TYPICAL ACCESS TO RURAL PROPERTIES.
10. PROPOSED OVERHEAD LINE ROUTES AND LOCATIONS ARE INDICATIVE ONLY AND SHALL BE CONFIRMED DURING DETAILED DESIGN.THE OVERHEAD LINE INFRASTRUCTURE SHALL BE DESIGNED AND CONSTRUCTED TO ENSURE NO IMPACT ON NATIVE VEGETATION. DESIGN AND CONSTRUCTION WILL NOT OCCUR IN THE CREEK LAND AND/OR CHANNEL.
11. 4M WIDE PERIMETER ROAD WITHIN THE FIREBREAK MUST INCLUDE 20M X 6M PASSING BAYS EVERY 600 METRES.
12. ROADS MUST BE ALL WEATHER OR DIRT/CRUSHED ROCK CONSTRUCTION WHERE INDICATED AND CAPABLE OF ACCOMMODATING A VEHICLE OF FIFTEEN (15) TONNES.
13. 2m WIDE WATER PIPELINE SUPPLY.
14. A 4m WIDE BUFFER ZONE HAS BEEN CONSIDERED.
15. 35m WIDE GAS PIPELINE EASEMENT.

Site Boundary
Site Access
Security Fence
Single Axis Tracker 80s 1
Single Axis Tracker 56 x 1
substation area
Potential Stand-alone AC BESS (Subject to Future Approval Process)
PCS - 2 inverters & DC coupled BESS
PCS - 2 inverters & DC coupled BESS & Noise Barrier option if required
PCS - 2 inverters & no DC coupled BESS
Construction easement
Construction laydown
O&M and storage buildings
Access Road (All Weathered)
Access Road (Dirt roads / crushed rock)
Existing vegetation and environmental values to be retained
Existing 66kV Overhead line indicative location
Existing 220kV Overhead Line Easement
Distribution Line Easement to be retained
Propose powerline Easement realignment
High pressure gas pipeline easement
60m Fire Break
Designated Waterway
Infill planting zone
10m wide screen planting zone
5m wide screen planting zone
50m Buffer scarred trees
Vegetation management area - project area
Vegetation management area - crown land
Native vegetation enhancement area - crown land
Native vegetation enhancement area - project area
'Site entrance' and 'danger' signage
Business identification signage
45,000 Water tanks
Fire Hydrant
Trees to be retained
Trees to be removed

PV SYSTEM SPECIFICATIONS	
Capacity - DC	375.90 MW_p
Export Capacity - AC	300 MW_{AC}
DC/AC Ratio	1.253
Modules	(616230) 610 W Bifacial
Mods. per string	30
Pitch	5.20 m
GCR	47.40 %
Mounting structure	(7663) NxT Mono-Line SAT
• Full (3 Strings)	5215
• Partial (2 Strings)	2448
• Half	
Inverters	(112) Central Inverter 3575 KVA
• Nominal Power	3575 KVA
Access roads	49545 m
Fenced area	(6273210 m^2) 1550 Ha
• Perimeter	23935 m

Revisions:

Rev	Date	Comments	Dwn	Chkd
09	12.11.24	Layout update (29mod. per string & 620W)	DC	
08	15.07.24	Easement and legend update	EPG	
14	16.05.25	Updated Layout	DC	
13	16.05.25	Update Layout	DC	
12	03.04.24	Substation details added	AG	
11	24.03.25	Updated Layout with 28 Strings	DC	
10	27.11.24	Updated layout	JI	
00	27.11.23	Layout Updated	DC	

DRAWN	CHECKED	APPROVED	DATE
DC			27.11.2023

PROJECT NAME & ADDRESS:
Location: Benalla, Victoria
Australia

NOTES:
- 610 Wp Bifacial modules
-
-
-

Paper Size:	Scale:	Sheet:
A3	1:30	1

CAPACITY:
616230 Modules 375.90 MWp

DRAWING TITLE:
AUS_West Mokoan Solar Farm_LP3-BDL_14 (KC_BDL_04) Planning
Hybrid Project Layout

DRAWING NUMBER:	STATUS:
LP3-BDL	Preliminary

lightsource bp

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ISO full bleed A3 (420.00 x 297.00 MM)-V.1.0

PROJECT ID	60585631
CREATED BY	JB
LAST MODIFIED	mcmahonj5 07 MAY 2025

AECOM
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Coordinate System: GDA 1994 MGA Zone 55

0 100 200 400 600 800

metres

1:26,000 (when printed at A3)

LEGEND

- Kennedys Creek
- Proposed transmission line
- West Mokoan Study Area
- Conservation Zone
- Project Area

Vegetation loss

- Design loss
- Inadvertent loss
- Tree to be removed (TBRVDS): Design loss
- Tree to be removed (TBRVIL): Inadvertent loss
- Previous approved vegetation loss
- Solar Farm Development Plan
- Watercourses
- Roadways
- Waterbodies
- Wetland

Comparison of Permitted Vegetation Removal

Lightsource BP

Kennedy Creek
West Mokoan
Solar Farm Planning Application

Benalla-Yarrawonga Rd, Goorambat VIC

Figure
3

Map Document: (\\na.aecomnet.com\lfs\APAC\Melbourne-AUMEL1\Legacy\Projects\605X\605856314. Tech Work Area\4.99 GIS\02_Maps\2025\F12_Impact_Comparison_Mokoan_Kennedy.mxd)

Appendix B

Native Vegetation Removal Report

Appendix B Native Vegetation Removal Report

Native Vegetation Removal Report

NVRR ID: 381_20250214_TA4

This report provides information to support an application to remove, destroy or lop native vegetation in accordance with the *Guidelines for the removal, destruction or lopping of native vegetation* (the Guidelines). This report is **not an assessment by DEECA** of the proposed native vegetation removal. Native vegetation information and offset requirements have been determined using spatial data provided by the applicant or their consultant.

Report details

Date created: 14/02/2025

Local Government Area: BENALLA RURAL CITY

Shapefile name:
KennedyCrk_Mokoan_CombinedLoss_NVR_VG20_Trees_20250214.shp
KennedyCrk_Mokoan_CombinedLoss_NVR_VG20_20250214.shp

Site assessor name:
JP
Karina Salmon

Registered Aboriginal Party: Yorta Yorta

Coordinates: 146.00578, -36.45652

Address:
BENALLA-YARRAWONGA ROAD GOORAMBAT 3725
LAKE MOKOAN ROAD WINTON NORTH 3673
81 LAKE MOKOAN ROAD GOORAMBAT 3725
51 NELSON ROAD BENALLA 3672
BENALLA-YARRAWONGA ROAD BENALLA 3672
616 BENALLA-YARRAWONGA ROAD BENALLA 3672
572 BENALLA-YARRAWONGA ROAD BENALLA 3672
892 BENALLA-YARRAWONGA ROAD GOORAMBAT 3725
127 NELSON ROAD BENALLA 3672
284 BENALLA-YARRAWONGA ROAD BENALLA 3672
(2 additional addresses not listed)

Regulator Notes

Removal polygons are located:
- On Crown Land

This report includes partial removal

Summary of native vegetation to be removed

Assessment pathway	**Detailed Assessment Pathway**		
Location category	Location 2 The native vegetation extent map indicates that this area is typically characterised as supporting native vegetation. Additionally, it is modelled as encompassing an endangered Ecological Vegetation Class, sensitive wetland or sensitive coastal area. The removal of less than 0.5 hectares of native vegetation in this area will not require a Species Offset.		
Total extent including past and proposed removal (ha) *Includes endangered EVCs (ha): 17.762*	**17.762**	*Extent of past removal (ha)*	*0*
		Extent of proposed removal - Patches (ha)	*13.236*
		Extent of proposed removal - Scattered Trees (ha)	*4.526*
No. Large Trees proposed to be removed	**67**	*No. Large Patch Trees*	*5*
		No. Large Scattered Trees	*62*
No. Small Scattered Trees	8		

Offset requirements if approval is granted

Any approval granted will include a condition to obtain an offset, before the removal of native vegetation, that meets the following requirements:

General Offset amount [1]	**3.2400 General Habitat Units**
Vicinity	Goulburn Broken CMA or BENALLA RURAL CITY LGA
Minimum strategic biodiversity value score [2]	0.3233
Large Trees*	67
***The total number of Large Trees that the offset must protect**	**67** Large Trees to be protected in either the General, Species or combination across all habitat units protected

NB: values within tables in this document may not add to the totals shown above due to rounding
Appendix 1 includes information about the native vegetation to be removed
Appendix 2 includes information about the rare or threatened species with mapped habitat at the site
Appendix 3 includes the following figures

- Location map
- Strategic Biodiversity Value map
- Condition map
- Endangered EVCs map
- Aerial photograph showing mapped native vegetation
- Property in context
- Habitat Importance maps

1. The General Offset amount required is the sum of all General Habitat Units in Appendix 1.
2. Minimum strategic biodiversity value score is 80 per cent of the weighted average score across habitat zones where a General Offset is required.
3. The Species Offset amount(s) required is the sum of all Species Habitat Units in Appendix 1.

Next steps

Any proposal to remove native vegetation must meet the application requirements of the Detailed Assessment Pathway and it will be assessed under the Detailed Assessment Pathway.

If you wish to remove the mapped native vegetation you are required to apply for approval from the responsible authority. The responsible authority will refer your application to DEECA for assessment, as required. **This report is not a referral assessment by DEECA.**

This *Native vegetation removal report* must be submitted with your application for approval to remove, destroy or lop native vegetation.

Refer to the Guidelines for a full list of application requirements This report provides information that meets the following application requirements:

- The assessment pathway and reason for the assessment pathway.
- A description of the native vegetation to be removed (partly met).
- Maps showing the native vegetation and property (partly met).
- Information about the impacts on rare or threatened species.
- The offset requirements determined in accordance with Section 5 of the Guidelines that apply if approval is granted to remove native vegetation.

Additional application requirements must be met including:

- Topographical and land information
- Recent dated photographs.
- Details of past native vegetation removal.
- An avoid and minimise statement.
- A copy of any Property Vegetation Plan as applicable.
- A defendable space statement as applicable.
- A statement about the Native Vegetation Precinct Plan (NVPP) as applicable.
- A site assessment report including a habitat hectare assessment of any patches of native vegetation and details of trees.
- An offset statement that explains that an offset has been identified and how it will be secured.

Appendix 1: Description of native vegetation to be removed

The Species-General Offset Test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats above the Species Offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact meets or exceeds the Species Offset threshold, a Species Offset is required. This test is completed for all species with mapped habitat at the site. Multiple Species Offsets will be required if the Species Offset threshold is exceeded for multiple species.

Where a zone requires Species Offset(s), the Species Habitat Units for each species in that zone are calculated by the following equation in accordance with the Guidelines: ***Species Habitat Units = extent without overlap x condition score x species landscape factor x 2, where the species landscape factor = 0.5 + (habitat importance score/2)***

The Species Offset amount(s) required is the sum of all Species Habitat Units per zone.

Where a zone does not require a Species Offset, the General Habitat Units in that zone are calculated by the following equation in accordance with the Guidelines: ***General Habitat Units = extent without overlap x condition score x general landscape factor x 1.5, where the general landscape factor = 0.5 + (strategic biodiversity value score/2)***

The General Offset amount required is the sum of all General Habitat Units per zone.

Native vegetation to be removed

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
2a-C	Patch	-	VRiv0125	Endangered	no	0.130	-	0.007	0.007	0.100	-	0.001	General
34-B	Patch	-	VRiv0235	Endangered	no	0.190	4	0.032	0.032	0.223	-	0.006	General
36-B	Patch	-	VRiv0235	Endangered	no	0.220	1	0.018	0.018	0.460	-	0.004	General
3a-C	Patch	-	VRiv0125	Endangered	no	0.349	-	0.018	0.018	0.100	-	0.005	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
3b-C	Patch	-	VRiv0125	Endangered	no	0.349	-	0.007	0.007	0.250	-	0.002	General
49-B	Patch	-	VRiv0803	Endangered	no	0.220	-	0.049	0.049	0.652	-	0.013	General
53-B	Patch	-	VRiv0803	Endangered	yes	0.330	-	13.106	13.106	0.433	-	2.325	General
ST104-ST	Scattered Tree	76	VRiv0803	Endangered	no	0.200	1	0.070	0.062	0.237	-	0.011	General
ST105-ST	Scattered Tree	106	VRiv0803	Endangered	no	0.200	1	0.070	0.062	0.221	-	0.011	General
ST112-Stag	Scattered Tree	135	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.340	-	0.014	General
ST115-ST	Scattered Tree	159	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.440	-	0.015	General
ST116-ST	Scattered Tree	109	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST119-ST	Scattered Tree	96	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.440	-	0.015	General
ST120-ST	Scattered Tree	141	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST121-ST	Scattered Tree	87	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST122-ST	Scattered Tree	72	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST127-ST	Scattered Tree	215	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.551	-	0.016	General
ST130-ST	Scattered Tree	116	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.370	-	0.014	General
ST132-ST	Scattered Tree	205	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST133-ST	Scattered Tree	144	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST134-ST	Scattered Tree	90	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST138-ST	Scattered Tree	175	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.370	-	0.014	General
ST143-ST	Scattered Tree	182	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.840	-	0.019	General
ST147-ST	Scattered Tree	195	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.418	-	0.015	General
ST149-Stag	Scattered Tree	70	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.260	-	0.013	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST154-ST	Scattered Tree	88	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST158-ST	Scattered Tree	122	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST163-ST	Scattered Tree	172	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.440	-	0.015	General
ST165-ST	Scattered Tree	25	VRiv0803	Endangered	no	0.200	1	0.031	0.024	0.250	-	0.004	General
ST166-ST	Scattered Tree	30	VRiv0803	Endangered	no	0.200	1	0.031	0.024	0.250	-	0.004	General
ST171-ST	Scattered Tree	143	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.440	-	0.015	General
ST176-ST	Scattered Tree	207	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST178-ST	Scattered Tree	109	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST184-ST	Scattered Tree	160	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.410	-	0.015	General
ST2-ST	Scattered Tree	172	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST204-Stag	Scattered Tree	115	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.350	-	0.014	General
ST220-ST	Scattered Tree	115	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.340	-	0.014	General
ST221-Stag	Scattered Tree	100	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.360	-	0.014	General
ST222-ST	Scattered Tree	105	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.130	-	0.012	General
ST224-Stag	Scattered Tree	120	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.300	-	0.014	General
ST231-Stag	Scattered Tree	99	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.350	-	0.014	General
ST241-ST	Scattered Tree	203	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.288	-	0.014	General
ST244-ST	Scattered Tree	122	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.330	-	0.014	General
ST250-Stag	Scattered Tree	114	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.370	-	0.014	General
ST270-ST	Scattered Tree	189	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.360	-	0.014	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST282-Stag	Scattered Tree	101	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST294-ST	Scattered Tree	39	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.420	-	0.007	General
ST3-Stag	Scattered Tree	125	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST300-ST	Scattered Tree	123	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST308-ST	Scattered Tree	88	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.190	-	0.013	General
ST311-ST	Scattered Tree	131	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST314-Stag	Scattered Tree	99	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST327-ST	Scattered Tree	108	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.190	-	0.013	General
ST328-ST	Scattered Tree	122	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST33-ST	Scattered Tree	25	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.390	-	0.007	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST332-Stag	Scattered Tree	110	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST336-ST	Scattered Tree	130	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.130	-	0.012	General
ST351-ST	Scattered Tree	55	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.450	-	0.007	General
ST354-Stag	Scattered Tree	113	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST355-ST	Scattered Tree	90	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.380	-	0.015	General
ST4-Stag	Scattered Tree	86	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.345	-	0.014	General
ST408-Stag	Scattered Tree	78	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.920	-	0.020	General
ST41-ST	Scattered Tree	10	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.250	-	0.006	General
ST50-ST	Scattered Tree	15	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.250	-	0.006	General
ST51-ST	Scattered Tree	124	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.249	-	0.013	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST52-Stag	Scattered Tree	139	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.250	-	0.013	General
ST53-ST	Scattered Tree	186	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.250	-	0.013	General
ST54-ST	Scattered Tree	141	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.250	-	0.013	General
ST68-ST	Scattered Tree	123	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.250	-	0.013	General
ST77-ST	Scattered Tree	118	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.159	-	0.012	General
ST78-ST	Scattered Tree	110	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.210	-	0.013	General
ST85-Stag	Scattered Tree	131	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.240	-	0.013	General
ST86-ST	Scattered Tree	30	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.260	-	0.006	General
ST88-ST	Scattered Tree	108	VRiv0803	Endangered	no	0.200	1	0.070	0.055	0.220	-	0.010	General
ST93-ST	Scattered Tree	130	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.220	-	0.013	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
ST97-ST	Scattered Tree	107	VRiv0803	Endangered	no	0.200	1	0.070	0.051	0.244	-	0.010	General
ST98-ST	Scattered Tree	71	VRiv0803	Endangered	no	0.200	1	0.070	0.051	0.250	-	0.010	General

Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table identifies all rare or threatened species with mapped habitat at the site and the proportional impact associated with the proposed native vegetation removal.

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Euroa Guinea-flower	Hibbertia humifusa subsp. erigens	505083	Vulnerable	Dispersed	Habitat importance map	0.0011
Western Silver Wattle	Acacia decora	500027	Vulnerable	Dispersed	Habitat importance map	0.0007
Yarran Wattle	Acacia omalophylla	500069	Endangered	Dispersed	Habitat importance map	0.0007
Mugga	Eucalyptus sideroxylon subsp. sideroxylon	504493	Rare	Dispersed	Habitat importance map	0.0007
Narrow Goodenia	Goodenia macbarronii	501513	Vulnerable	Dispersed	Habitat importance map	0.0004
Bent-leaf Wattle	Acacia flexifolia	500035	Rare	Dispersed	Habitat importance map	0.0003
Cottony Cassinia	Cassinia ozothamnoides	501560	Vulnerable	Dispersed	Habitat importance map	0.0003
Northern Sandalwood	Santalum lanceolatum	503009	Endangered	Dispersed	Habitat importance map	0.0003
Ausfeld's Wattle	Acacia ausfeldii	500013	Vulnerable	Dispersed	Habitat importance map	0.0002
Plump Windmill Grass	Chloris ventricosa	500757	Vulnerable	Dispersed	Habitat importance map	0.0002
Umbrella Grass	Digitaria divaricatissima var. divaricatissima	501045	Vulnerable	Dispersed	Habitat importance map	0.0002
Western Golden-tip	Goodia medicaginea	501518	Rare	Dispersed	Habitat importance map	0.0002
Velvet Daisy-bush	Olearia pannosa subsp. cardiophylla	502317	Vulnerable	Dispersed	Habitat importance map	0.0002
Broom Bitter-pea	Daviesia genistifolia s.s.	503813	Rare	Dispersed	Habitat importance map	0.0002
Pepper Grass	Panicum laevinode	504808	Vulnerable	Dispersed	Habitat importance map	0.0002

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Dwarf Cassinia	Cassinia diminuta	507664	Rare	Dispersed	Habitat importance map	0.0002
Brolga	Grus rubicunda	10177	Vulnerable	Dispersed	Habitat importance map	0.0001
Bearded Dragon	Pogona barbata	12177	Vulnerable	Dispersed	Habitat importance map	0.0001
Mueller Daisy	Brachyscome muelleroides	500465	Endangered	Dispersed	Habitat importance map	0.0001
Silky Umbrella-grass	Digitaria ammophila	501041	Vulnerable	Dispersed	Habitat importance map	0.0001
Golden Cowslips	Diuris behrii	501061	Vulnerable	Dispersed	Habitat importance map	0.0001
Purple Diuris	Diuris punctata	501084	Vulnerable	Dispersed	Habitat importance map	0.0001
Veiled Fringe-sedge	Fimbristylis velata	501369	Rare	Dispersed	Habitat importance map	0.0001
Clover Glycine	Glycine latrobeana	501456	Vulnerable	Dispersed	Habitat importance map	0.0001
Slender Club-sedge	Isolepis congrua	501773	Vulnerable	Dispersed	Habitat importance map	0.0001
Lanky Buttons	Leptorhynchos elongatus	501941	Endangered	Dispersed	Habitat importance map	0.0001
Waterbush	Myoporum montanum	502240	Rare	Dispersed	Habitat importance map	0.0001
Ridged Water-milfoil	Myriophyllum porcatum	502257	Vulnerable	Dispersed	Habitat importance map	0.0001
Small Scurf-pea	Cullen parvum	502773	Endangered	Dispersed	Habitat importance map	0.0001
Hairy Tails	Ptilotus erubescens	502825	Vulnerable	Dispersed	Habitat importance map	0.0001
Stiff Groundsel	Senecio behrianus	503101	Endangered	Dispersed	Habitat importance map	0.0001
Rye Beetle-grass	Tripogon loliiformis	503455	Rare	Dispersed	Habitat importance map	0.0001
Dwarf Brooklime	Gratiola pumilo	503753	Rare	Dispersed	Habitat importance map	0.0001

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Striped Water-milfoil	Myriophyllum striatum	503869	Vulnerable	Dispersed	Habitat importance map	0.0001
Jericho Wire-grass	Aristida jerichoensis var. subspinulifera	504631	Endangered	Dispersed	Habitat importance map	0.0001
Pale Swamp Everlasting	Coronidium gunnianum	504655	Vulnerable	Dispersed	Habitat importance map	0.0001
Spiny Rice-flower	Pimelea spinescens subsp. spinescens	504823	Endangered	Dispersed	Habitat importance map	0.0001
Fuzzy New Holland Daisy	Vittadinia cuneata var. morrisii	505060	Rare	Dispersed	Habitat importance map	0.0001
Late-flower Flax-lily	Dianella tarda	505085	Vulnerable	Dispersed	Habitat importance map	0.0001
Delicate Crane's-bill	Geranium sp. 6	505347	Vulnerable	Dispersed	Habitat importance map	0.0001
Floodplain Fireweed	Senecio campylocarpus	507136	Rare	Dispersed	Habitat importance map	0.0001
Grey Grass-tree	Xanthorrhoea glauca subsp. angustifolia	507229	Endangered	Dispersed	Habitat importance map	0.0001
Australian Painted Snipe	Rostratula australis	10170	Critically endangered	Dispersed	Habitat importance map	0.0000
Bush Stone-curlew	Burhinus grallarius	10174	Endangered	Dispersed	Habitat importance map	0.0000
Australian Little Bittern	Ixobrychus dubius	10195	Endangered	Dispersed	Habitat importance map	0.0000
Australasian Shoveler	Anas rhynchotis	10212	Vulnerable	Dispersed	Habitat importance map	0.0000
Hardhead	Aythya australis	10215	Vulnerable	Dispersed	Habitat importance map	0.0000
Black Falcon	Falco subniger	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
Elegant Parrot	Neophema elegans	10307	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey-crowned Babbler	Pomatostomus temporalis temporalis	10443	Endangered	Dispersed	Habitat importance map	0.0000
Painted Honeyeater	Grantiella picta	10598	Vulnerable	Dispersed	Habitat importance map	0.0000

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Buloke Mistletoe	Amyema linophylla subsp. orientalis	500217	Vulnerable	Dispersed	Habitat importance map	0.0000
Buloke	Allocasuarina luehmannii	500678	Endangered	Dispersed	Habitat importance map	0.0000
Spotted Emu-bush	Eremophila maculata subsp. maculata	501204	Rare	Dispersed	Habitat importance map	0.0000
Long Eryngium	Eryngium paludosum	501238	Vulnerable	Dispersed	Habitat importance map	0.0000
Kamarooka Mallee	Eucalyptus froggattii	501279	Rare	Dispersed	Habitat importance map	0.0000
Smooth Minuria	Minuria integerrima	502201	Rare	Dispersed	Habitat importance map	0.0000
Small-leaf Bush-pea	Pultenaea foliolosa	502848	Rare	Dispersed	Habitat importance map	0.0000
Dwarf Bitter-cress	Rorippa eustylis	502944	Rare	Dispersed	Habitat importance map	0.0000
Branching Groundsel	Senecio cunninghamii var. cunninghamii	503104	Rare	Dispersed	Habitat importance map	0.0000
Twiggy Sida	Sida intricata	503143	Vulnerable	Dispersed	Habitat importance map	0.0000
Red Swainson-pea	Swainsona plagiotropis	503324	Endangered	Dispersed	Habitat importance map	0.0000
Downy Swainson-pea	Swainsona swainsonioides	503328	Endangered	Dispersed	Habitat importance map	0.0000
Small Burr-grass	Tragus australianus	503418	Rare	Dispersed	Habitat importance map	0.0000
Grassland Velleia	Velleia arguta	503487	Rare	Dispersed	Habitat importance map	0.0000
Yellow-tongue Daisy	Brachyscome chrysoglossa	503654	Vulnerable	Dispersed	Habitat importance map	0.0000
Spiny-fruit Saltbush	Atriplex spinibractea	504608	Endangered	Dispersed	Habitat importance map	0.0000
Southern Swainson-pea	Swainsona behriana	504944	Rare	Dispersed	Habitat importance map	0.0000
Silky Swainson-pea	Swainsona sericea	504946	Vulnerable	Dispersed	Habitat importance map	0.0000

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Riverina Bitter-cress	Cardamine moirensis	505032	Rare	Dispersed	Habitat importance map	0.0000
Woolly Wattle	Acacia lanigera var. lanigera	505093	Rare	Dispersed	Habitat importance map	0.0000

Habitat Group

- Highly localised habitat means there is 2,000 hectares or less mapped habitat for the species.
- Dispersed habitat means there is more than 2,000 hectares of mapped habitat for the species.

Habitat Impacted

The Species General Offset test, as described in Section 5.3.1 of the Guidelines, is used to determine if proposed native vegetation removal will result in a proportionally significant impact on the habitat value of rare or threatened species. The test is applied where the native vegetation proposed for removal:

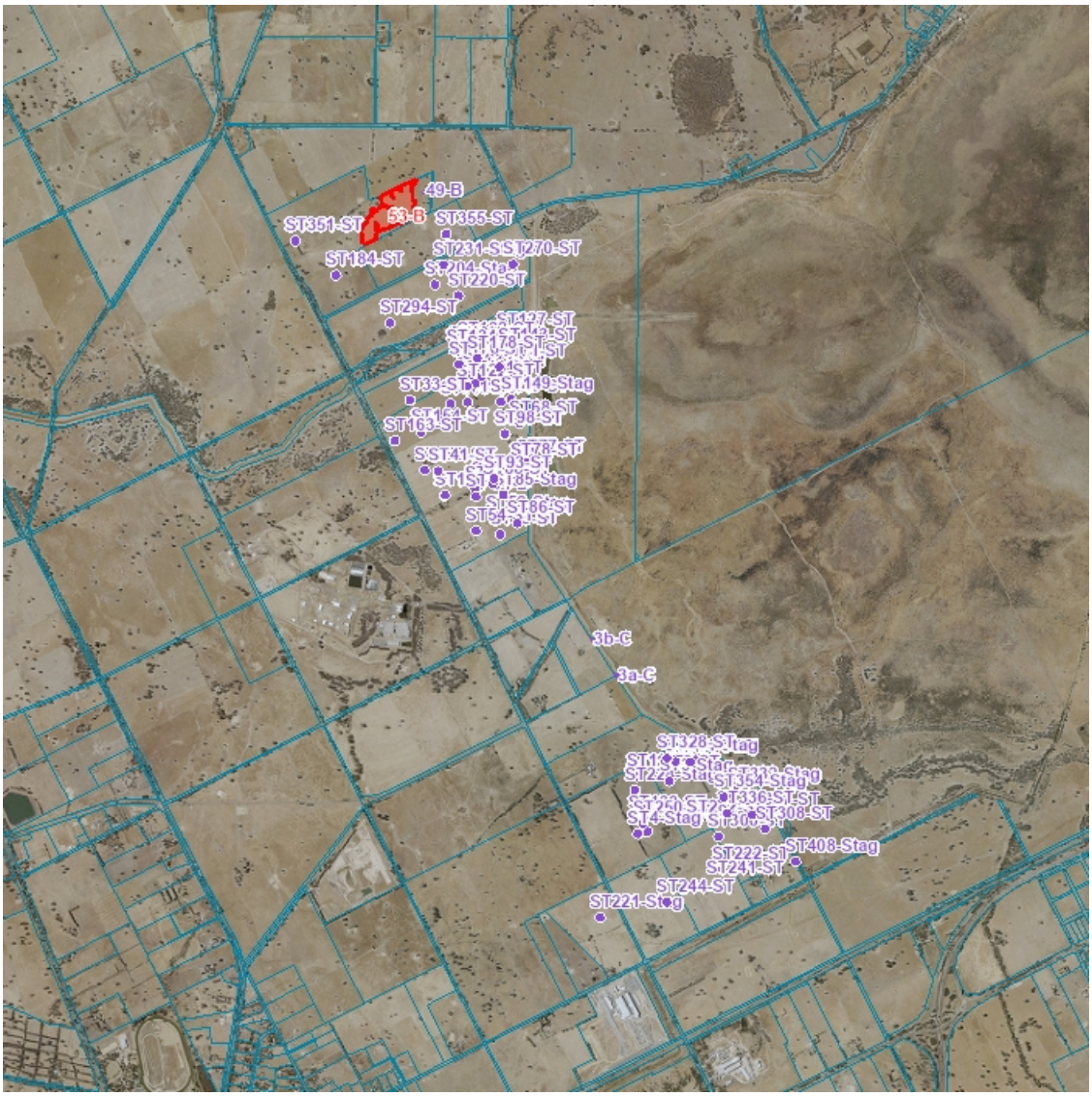
- Intersects the Habitat Importance Map for a rare or threatened species; or
- Intersects the 'top ranking' modelled habitat for a rare or threatened species with dispersed habitat, as identified in its Top Ranking Habitat Importance Map.

Top Ranking Maps consist of the 2,000 hectares of habitat with the highest Habitat Importance Scores for each dispersed species.

The 'Habitat impacted' column identifies whether the Habitat Importance Map or its Top Ranking Map was used to determine the proportional impact for a species with dispersed habitat.

Appendix 3: Images of mapped native vegetation

1. Property in context

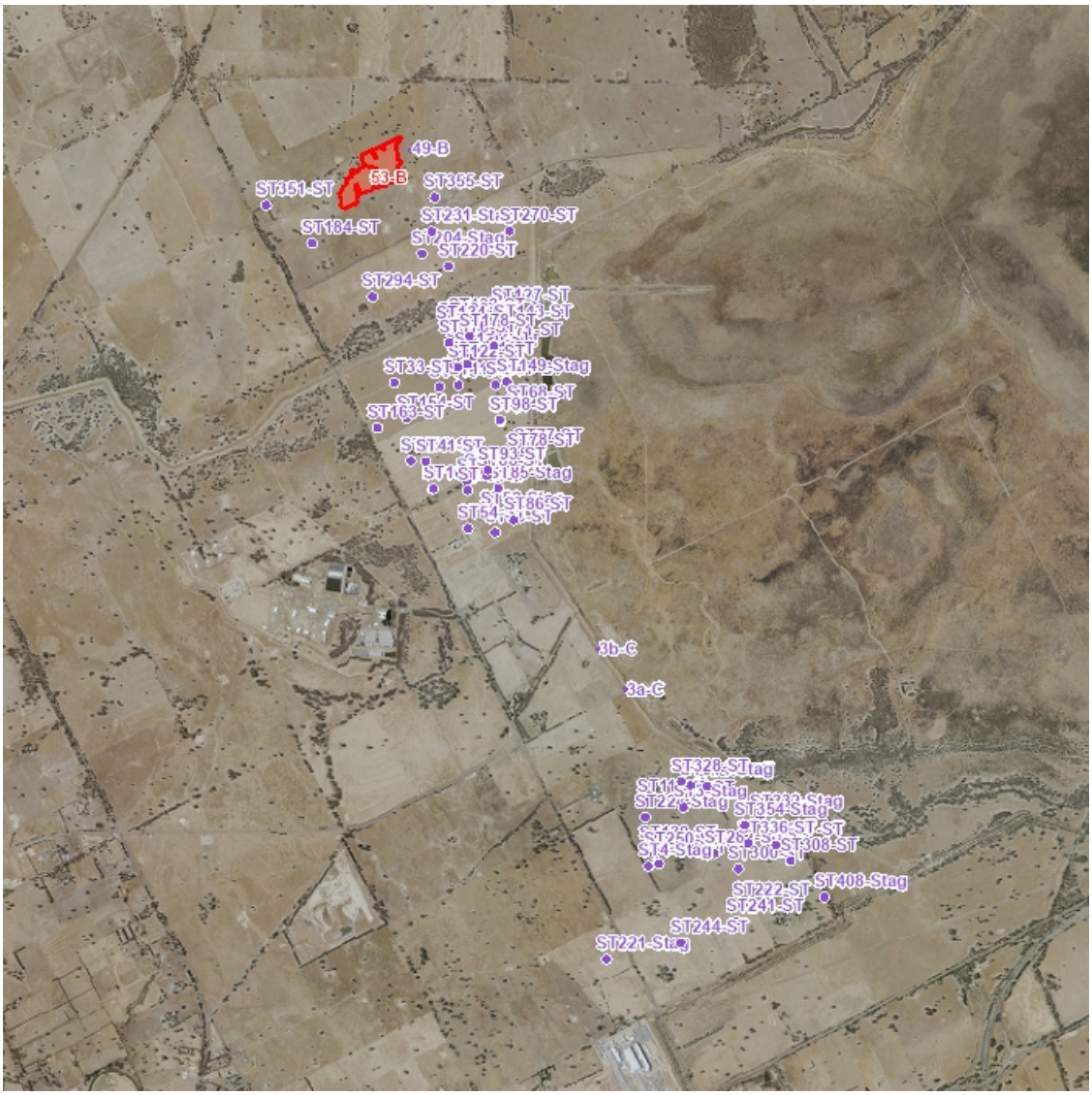


Proposed Removal
Past Removal
Partial Removal
Property Boundaries

N

1000 m

2. Aerial photograph showing mapped native vegetation

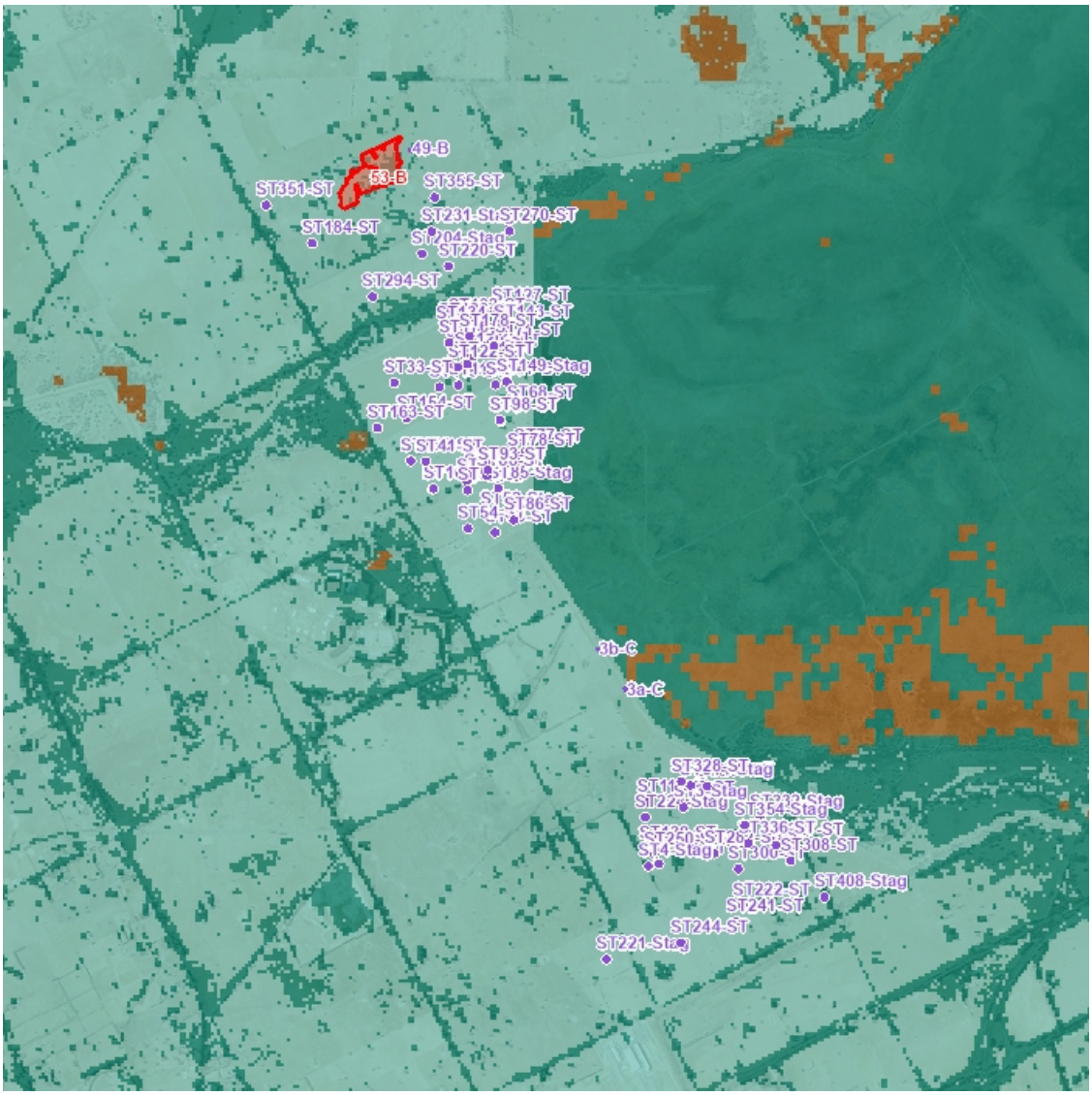


Proposed Removal
Past Removal
Partial Removal

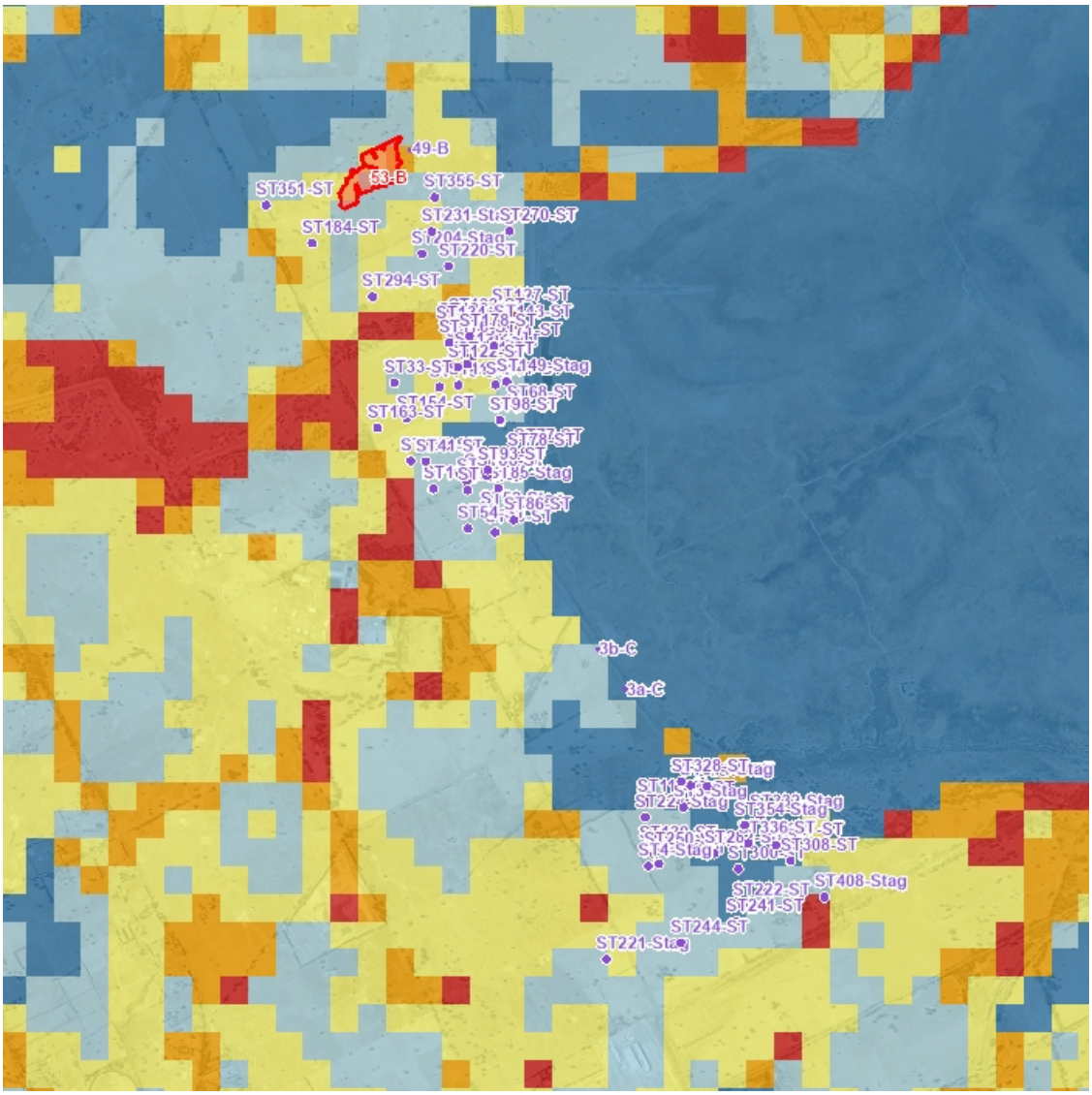
N

1000 m

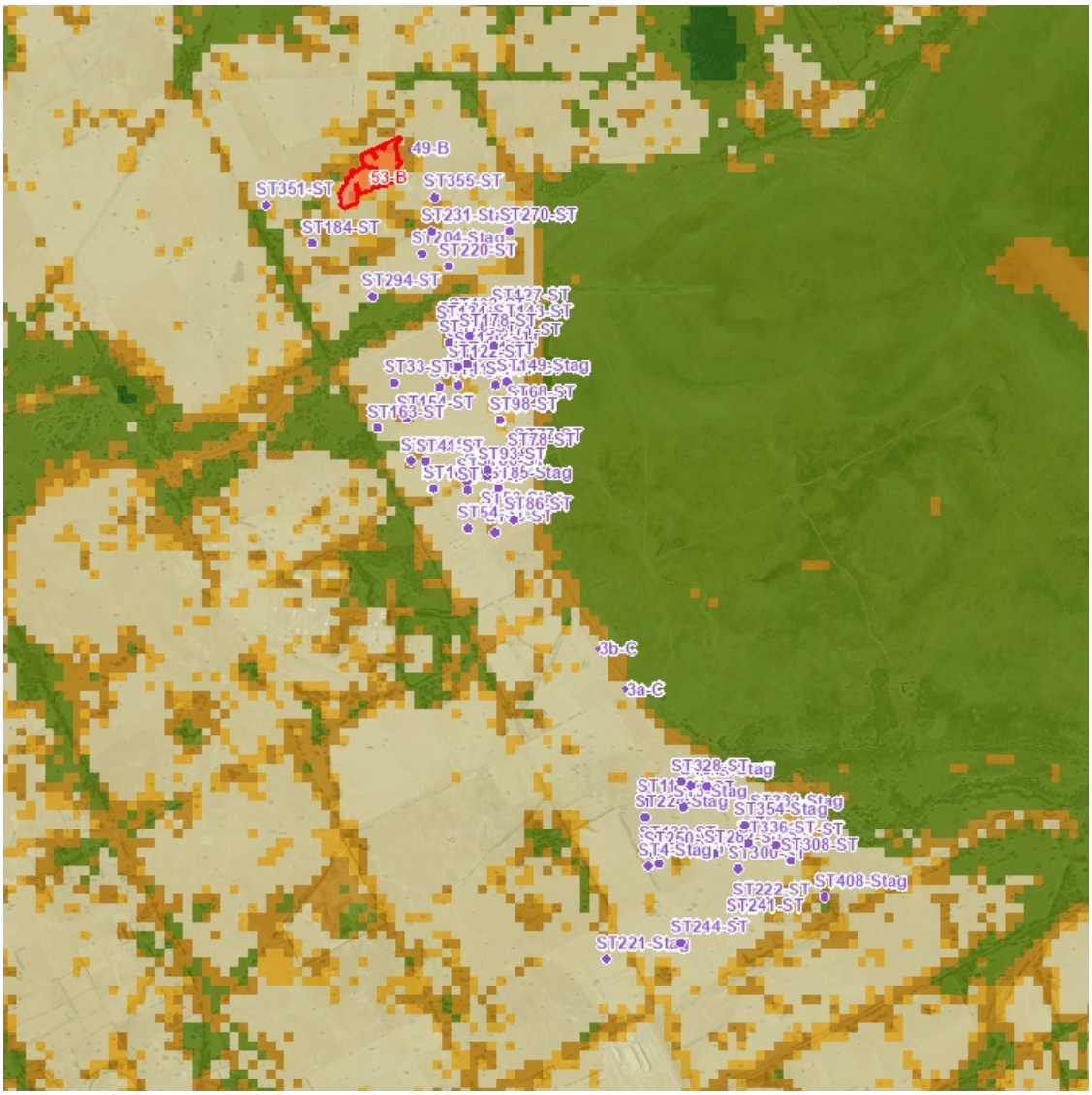
3. Location Risk Map



4. Strategic Biodiversity Value Score Map



5. Modelled Condition Score Map



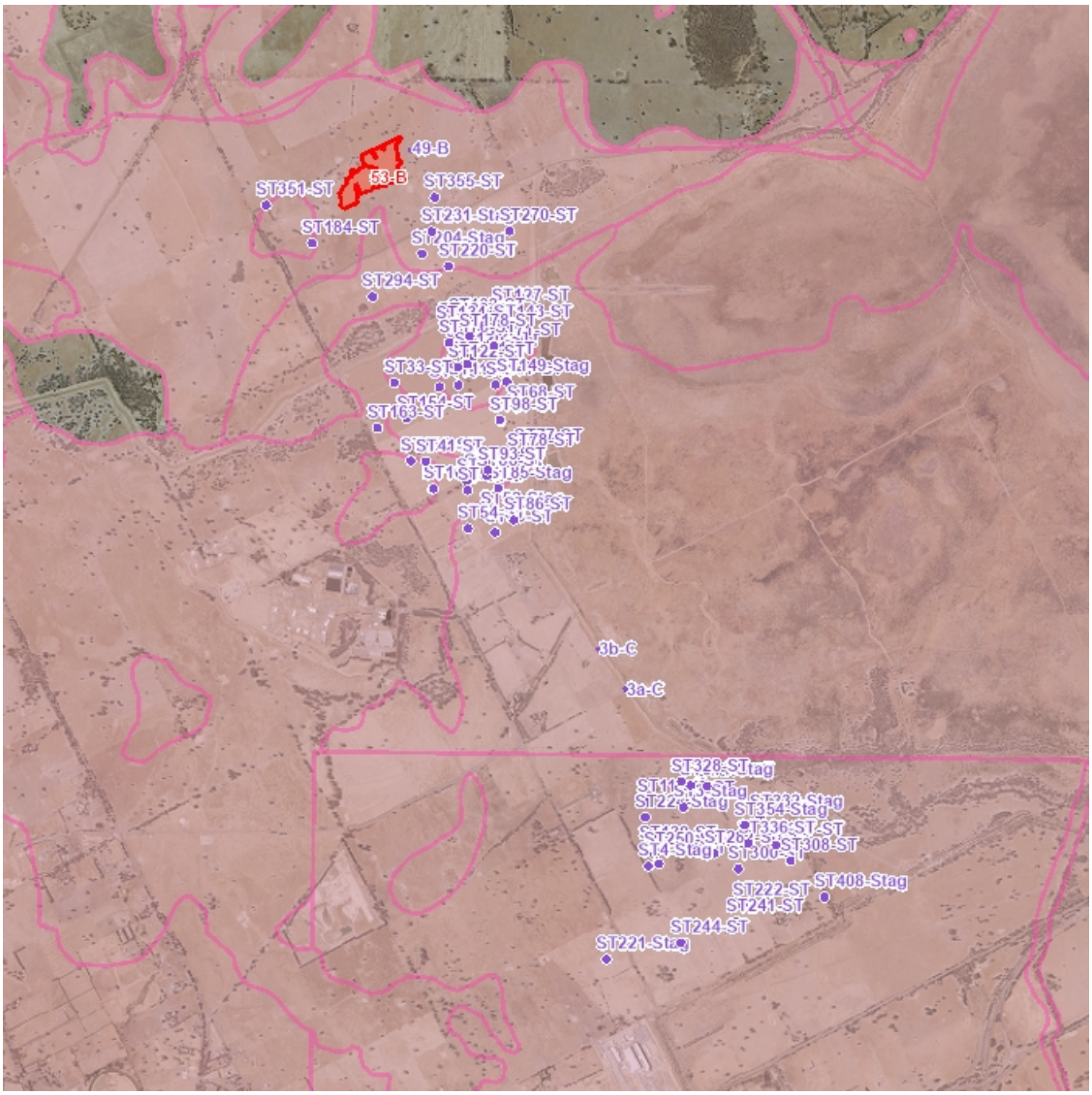
Proposed Removal
Past Removal
Partial Removal

0.81 - 1.00
0.61 - 0.80
0.41 - 0.60
0.21 - 0.40
0.00 - 0.20

N

1000 m

6. Modelled Endangered EVCs



Proposed Removal

Past Removal

Partial Removal

Endangered 1750 Ecological Vegetation Classes

N

1000 m

7. Habitat Importance maps

Not Applicable

Native Vegetation Removal Report

NVRR ID: 381_20250214_1SY

This report provides information to support an application to remove, destroy or lop native vegetation in accordance with the *Guidelines for the removal, destruction or lopping of native vegetation* (the Guidelines). This report is **not an assessment by DEECA** of the proposed native vegetation removal. Native vegetation information and offset requirements have been determined using spatial data provided by the applicant or their consultant.

Report details

Date created: 14/02/2025

Local Government Area: BENALLA RURAL CITY

Shapefile name:
KennedyCrk_Mokoan_DesignLoss_NVR_VG20_Trees_20250214.shp
KennedyCrk_Mokoan_DesignLoss_NVR_VG20_20250214.shp

Site assessor name:
JP
Karina Salmon

Registered Aboriginal Party: Yorta Yorta

Coordinates: 146.00578, -36.45652

Address:
BENALLA-YARRAWONGA ROAD GOORAMBAT 3725
LAKE MOKOAN ROAD WINTON NORTH 3673
81 LAKE MOKOAN ROAD GOORAMBAT 3725
51 NELSON ROAD BENALLA 3672
BENALLA-YARRAWONGA ROAD BENALLA 3672
616 BENALLA-YARRAWONGA ROAD BENALLA 3672
572 BENALLA-YARRAWONGA ROAD BENALLA 3672
892 BENALLA-YARRAWONGA ROAD GOORAMBAT 3725
127 NELSON ROAD BENALLA 3672
284 BENALLA-YARRAWONGA ROAD BENALLA 3672
(2 additional addresses not listed)

Regulator Notes

Removal polygons are located:
- On Crown Land

This report includes partial removal

Summary of native vegetation to be removed

Assessment pathway	**Detailed Assessment Pathway**		
Location category	Location 2 The native vegetation extent map indicates that this area is typically characterised as supporting native vegetation. Additionally, it is modelled as encompassing an endangered Ecological Vegetation Class, sensitive wetland or sensitive coastal area. The removal of less than 0.5 hectares of native vegetation in this area will not require a Species Offset.		
Total extent including past and proposed removal (ha) *Includes endangered EVCs (ha): 2.845*	**17.762**	*Extent of past removal (ha)*	*14.917*
		Extent of proposed removal - Patches (ha)	*0.063*
		Extent of proposed removal - Scattered Trees (ha)	*2.782*
No. Large Trees proposed to be removed	**42**	*No. Large Patch Trees*	*4*
		No. Large Scattered Trees	*38*
No. Small Scattered Trees	4		

Offset requirements if approval is granted

Any approval granted will include a condition to obtain an offset, before the removal of native vegetation, that meets the following requirements:

General Offset amount [1]	**0.5640 General Habitat Units**
Vicinity	Goulburn Broken CMA or BENALLA RURAL CITY LGA
Minimum strategic biodiversity value score [2]	0.2531
Large Trees*	42
***The total number of Large Trees that the offset must protect**	**42** Large Trees to be protected in either the General, Species or combination across all habitat units protected

NB: values within tables in this document may not add to the totals shown above due to rounding
Appendix 1 includes information about the native vegetation to be removed
Appendix 2 includes information about the rare or threatened species with mapped habitat at the site
Appendix 3 includes the following figures

- Location map
- Strategic Biodiversity Value map
- Condition map
- Endangered EVCs map
- Aerial photograph showing mapped native vegetation
- Property in context
- Habitat Importance maps

1. The General Offset amount required is the sum of all General Habitat Units in Appendix 1.
2. Minimum strategic biodiversity value score is 80 per cent of the weighted average score across habitat zones where a General Offset is required.
3. The Species Offset amount(s) required is the sum of all Species Habitat Units in Appendix 1.

Next steps

Any proposal to remove native vegetation must meet the application requirements of the Detailed Assessment Pathway and it will be assessed under the Detailed Assessment Pathway.

If you wish to remove the mapped native vegetation you are required to apply for approval from the responsible authority. The responsible authority will refer your application to DEECA for assessment, as required. **This report is not a referral assessment by DEECA.**

This *Native vegetation removal report* must be submitted with your application for approval to remove, destroy or lop native vegetation.

Refer to the Guidelines for a full list of application requirements This report provides information that meets the following application requirements:

- The assessment pathway and reason for the assessment pathway.
- A description of the native vegetation to be removed (partly met).
- Maps showing the native vegetation and property (partly met).
- Information about the impacts on rare or threatened species.
- The offset requirements determined in accordance with Section 5 of the Guidelines that apply if approval is granted to remove native vegetation.

Additional application requirements must be met including:

- Topographical and land information
- Recent dated photographs.
- Details of past native vegetation removal.
- An avoid and minimise statement.
- A copy of any Property Vegetation Plan as applicable.
- A defendable space statement as applicable.
- A statement about the Native Vegetation Precinct Plan (NVPP) as applicable.
- A site assessment report including a habitat hectare assessment of any patches of native vegetation and details of trees.
- An offset statement that explains that an offset has been identified and how it will be secured.

Appendix 1: Description of native vegetation to be removed

The Species-General Offset Test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats above the Species Offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact meets or exceeds the Species Offset threshold, a Species Offset is required. This test is completed for all species with mapped habitat at the site. Multiple Species Offsets will be required if the Species Offset threshold is exceeded for multiple species.

Where a zone requires Species Offset(s), the Species Habitat Units for each species in that zone are calculated by the following equation in accordance with the Guidelines: ***Species Habitat Units = extent without overlap x condition score x species landscape factor x 2, where the species landscape factor = 0.5 + (habitat importance score/2)***

The Species Offset amount(s) required is the sum of all Species Habitat Units per zone.

Where a zone does not require a Species Offset, the General Habitat Units in that zone are calculated by the following equation in accordance with the Guidelines: ***General Habitat Units = extent without overlap x condition score x general landscape factor x 1.5, where the general landscape factor = 0.5 + (strategic biodiversity value score/2)***

The General Offset amount required is the sum of all General Habitat Units per zone.

Native vegetation to be removed

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
2a-C	Patch	-	VRiv0125	Endangered	no	0.130	-	0.007	0.007	0.100	-	0.001	General
34-B	Patch	-	VRiv0235	Endangered	no	0.190	4	0.032	0.032	0.223	-	0.006	General
36-B	Patch	-	VRiv0235	Endangered	no	0.220	1	0.018	0.018		-		General
3a-C	Patch	-	VRiv0125	Endangered	no	0.349	-	0.018	0.018	0.100	-	0.005	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
3b-C	Patch	-	VRiv0125	Endangered	no	0.349	-	0.007	0.007	0.250	-	0.002	General
49-B	Patch	-	VRiv0803	Endangered	no	0.220	-	0.049	0.049		-		General
53-B	Patch	-	VRiv0803	Endangered	yes	0.330	-	13.106	13.106		-		General
ST104-ST	Scattered Tree	76	VRiv0803	Endangered	no	0.200	1	0.070	0.062		-		General
ST105-ST	Scattered Tree	106	VRiv0803	Endangered	no	0.200	1	0.070	0.062		-		General
ST112-Stag	Scattered Tree	135	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.340	-	0.014	General
ST115-ST	Scattered Tree	159	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.440	-	0.015	General
ST116-ST	Scattered Tree	109	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST119-ST	Scattered Tree	96	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.440	-	0.015	General
ST120-ST	Scattered Tree	141	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST121-ST	Scattered Tree	87	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST122-ST	Scattered Tree	72	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST127-ST	Scattered Tree	215	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.551	-	0.016	General
ST130-ST	Scattered Tree	116	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.370	-	0.014	General
ST132-ST	Scattered Tree	205	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST133-ST	Scattered Tree	144	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST134-ST	Scattered Tree	90	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST138-ST	Scattered Tree	175	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.370	-	0.014	General
ST143-ST	Scattered Tree	182	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.840	-	0.019	General
ST147-ST	Scattered Tree	195	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST149-Stag	Scattered Tree	70	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST154-ST	Scattered Tree	88	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST158-ST	Scattered Tree	122	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST163-ST	Scattered Tree	172	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST165-ST	Scattered Tree	25	VRiv0803	Endangered	no	0.200	1	0.031	0.024		-		General
ST166-ST	Scattered Tree	30	VRiv0803	Endangered	no	0.200	1	0.031	0.024		-		General
ST171-ST	Scattered Tree	143	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.440	-	0.015	General
ST176-ST	Scattered Tree	207	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST178-ST	Scattered Tree	109	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST184-ST	Scattered Tree	160	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.410	-	0.015	General
ST2-ST	Scattered Tree	172	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST204-Stag	Scattered Tree	115	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.350	-	0.014	General
ST220-ST	Scattered Tree	115	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.340	-	0.014	General
ST221-Stag	Scattered Tree	100	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.360	-	0.014	General
ST222-ST	Scattered Tree	105	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.130	-	0.012	General
ST224-Stag	Scattered Tree	120	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.300	-	0.014	General
ST231-Stag	Scattered Tree	99	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.350	-	0.014	General
ST241-ST	Scattered Tree	203	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.288	-	0.014	General
ST244-ST	Scattered Tree	122	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.330	-	0.014	General
ST250-Stag	Scattered Tree	114	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.370	-	0.014	General
ST270-ST	Scattered Tree	189	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.360	-	0.014	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
ST282-Stag	Scattered Tree	101	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST294-ST	Scattered Tree	39	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.420	-	0.007	General
ST3-Stag	Scattered Tree	125	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST300-ST	Scattered Tree	123	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST308-ST	Scattered Tree	88	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.190	-	0.013	General
ST311-ST	Scattered Tree	131	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST314-Stag	Scattered Tree	99	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST327-ST	Scattered Tree	108	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.190	-	0.013	General
ST328-ST	Scattered Tree	122	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST33-ST	Scattered Tree	25	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.390	-	0.007	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
ST332-Stag	Scattered Tree	110	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST336-ST	Scattered Tree	130	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.130	-	0.012	General
ST351-ST	Scattered Tree	55	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.450	-	0.007	General
ST354-Stag	Scattered Tree	113	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST355-ST	Scattered Tree	90	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST4-Stag	Scattered Tree	86	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.345	-	0.014	General
ST408-Stag	Scattered Tree	78	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST41-ST	Scattered Tree	10	VRiv0803	Endangered	no	0.200	-	0.031	0.031		-		General
ST50-ST	Scattered Tree	15	VRiv0803	Endangered	no	0.200	-	0.031	0.031		-		General
ST51-ST	Scattered Tree	124	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST52-Stag	Scattered Tree	139	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.250	-	0.013	General
ST53-ST	Scattered Tree	186	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST54-ST	Scattered Tree	141	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.250	-	0.013	General
ST68-ST	Scattered Tree	123	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST77-ST	Scattered Tree	118	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST78-ST	Scattered Tree	110	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.210	-	0.013	General
ST85-Stag	Scattered Tree	131	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General
ST86-ST	Scattered Tree	30	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.260	-	0.006	General
ST88-ST	Scattered Tree	108	VRiv0803	Endangered	no	0.200	1	0.070	0.055	0.220	-	0.010	General
ST93-ST	Scattered Tree	130	VRiv0803	Endangered	no	0.200	1	0.070	0.070		-		General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
ST97-ST	Scattered Tree	107	VRiv0803	Endangered	no	0.200	1	0.070	0.051		-		General
ST98-ST	Scattered Tree	71	VRiv0803	Endangered	no	0.200	1	0.070	0.051		-		General

Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table identifies all rare or threatened species with mapped habitat at the site and the proportional impact associated with the proposed native vegetation removal.

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Euroa Guinea-flower	Hibbertia humifusa subsp. erigens	505083	Vulnerable	Dispersed	Habitat importance map	0.0011
Western Silver Wattle	Acacia decora	500027	Vulnerable	Dispersed	Habitat importance map	0.0007
Yarran Wattle	Acacia omalophylla	500069	Endangered	Dispersed	Habitat importance map	0.0007
Mugga	Eucalyptus sideroxylon subsp. sideroxylon	504493	Rare	Dispersed	Habitat importance map	0.0007
Narrow Goodenia	Goodenia macbarronii	501513	Vulnerable	Dispersed	Habitat importance map	0.0004
Bent-leaf Wattle	Acacia flexifolia	500035	Rare	Dispersed	Habitat importance map	0.0003
Cottony Cassinia	Cassinia ozothamnoides	501560	Vulnerable	Dispersed	Habitat importance map	0.0003
Northern Sandalwood	Santalum lanceolatum	503009	Endangered	Dispersed	Habitat importance map	0.0003
Ausfeld's Wattle	Acacia ausfeldii	500013	Vulnerable	Dispersed	Habitat importance map	0.0002
Plump Windmill Grass	Chloris ventricosa	500757	Vulnerable	Dispersed	Habitat importance map	0.0002
Umbrella Grass	Digitaria divaricatissima var. divaricatissima	501045	Vulnerable	Dispersed	Habitat importance map	0.0002
Western Golden-tip	Goodia medicaginea	501518	Rare	Dispersed	Habitat importance map	0.0002
Velvet Daisy-bush	Olearia pannosa subsp. cardiophylla	502317	Vulnerable	Dispersed	Habitat importance map	0.0002
Broom Bitter-pea	Daviesia genistifolia s.s.	503813	Rare	Dispersed	Habitat importance map	0.0002
Pepper Grass	Panicum laevinode	504808	Vulnerable	Dispersed	Habitat importance map	0.0002

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Dwarf Cassinia	Cassinia diminuta	507664	Rare	Dispersed	Habitat importance map	0.0002
Brolga	Grus rubicunda	10177	Vulnerable	Dispersed	Habitat importance map	0.0001
Bearded Dragon	Pogona barbata	12177	Vulnerable	Dispersed	Habitat importance map	0.0001
Mueller Daisy	Brachyscome muelleroides	500465	Endangered	Dispersed	Habitat importance map	0.0001
Silky Umbrella-grass	Digitaria ammophila	501041	Vulnerable	Dispersed	Habitat importance map	0.0001
Golden Cowslips	Diuris behrii	501061	Vulnerable	Dispersed	Habitat importance map	0.0001
Purple Diuris	Diuris punctata	501084	Vulnerable	Dispersed	Habitat importance map	0.0001
Veiled Fringe-sedge	Fimbristylis velata	501369	Rare	Dispersed	Habitat importance map	0.0001
Clover Glycine	Glycine latrobeana	501456	Vulnerable	Dispersed	Habitat importance map	0.0001
Slender Club-sedge	Isolepis congrua	501773	Vulnerable	Dispersed	Habitat importance map	0.0001
Lanky Buttons	Leptorhynchos elongatus	501941	Endangered	Dispersed	Habitat importance map	0.0001
Waterbush	Myoporum montanum	502240	Rare	Dispersed	Habitat importance map	0.0001
Ridged Water-milfoil	Myriophyllum porcatum	502257	Vulnerable	Dispersed	Habitat importance map	0.0001
Small Scurf-pea	Cullen parvum	502773	Endangered	Dispersed	Habitat importance map	0.0001
Hairy Tails	Ptilotus erubescens	502825	Vulnerable	Dispersed	Habitat importance map	0.0001
Stiff Groundsel	Senecio behrianus	503101	Endangered	Dispersed	Habitat importance map	0.0001
Rye Beetle-grass	Tripogon loliiformis	503455	Rare	Dispersed	Habitat importance map	0.0001
Dwarf Brooklime	Gratiola pumilo	503753	Rare	Dispersed	Habitat importance map	0.0001

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Striped Water-milfoil	Myriophyllum striatum	503869	Vulnerable	Dispersed	Habitat importance map	0.0001
Jericho Wire-grass	Aristida jerichoensis var. subspinulifera	504631	Endangered	Dispersed	Habitat importance map	0.0001
Pale Swamp Everlasting	Coronidium gunnianum	504655	Vulnerable	Dispersed	Habitat importance map	0.0001
Spiny Rice-flower	Pimelea spinescens subsp. spinescens	504823	Endangered	Dispersed	Habitat importance map	0.0001
Fuzzy New Holland Daisy	Vittadinia cuneata var. morrisii	505060	Rare	Dispersed	Habitat importance map	0.0001
Late-flower Flax-lily	Dianella tarda	505085	Vulnerable	Dispersed	Habitat importance map	0.0001
Delicate Crane's-bill	Geranium sp. 6	505347	Vulnerable	Dispersed	Habitat importance map	0.0001
Floodplain Fireweed	Senecio campylocarpus	507136	Rare	Dispersed	Habitat importance map	0.0001
Grey Grass-tree	Xanthorrhoea glauca subsp. angustifolia	507229	Endangered	Dispersed	Habitat importance map	0.0001
Australian Painted Snipe	Rostratula australis	10170	Critically endangered	Dispersed	Habitat importance map	0.0000
Bush Stone-curlew	Burhinus grallarius	10174	Endangered	Dispersed	Habitat importance map	0.0000
Australian Little Bittern	Ixobrychus dubius	10195	Endangered	Dispersed	Habitat importance map	0.0000
Australasian Shoveler	Anas rhynchotis	10212	Vulnerable	Dispersed	Habitat importance map	0.0000
Hardhead	Aythya australis	10215	Vulnerable	Dispersed	Habitat importance map	0.0000
Black Falcon	Falco subniger	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
Elegant Parrot	Neophema elegans	10307	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey-crowned Babbler	Pomatostomus temporalis temporalis	10443	Endangered	Dispersed	Habitat importance map	0.0000
Painted Honeyeater	Grantiella picta	10598	Vulnerable	Dispersed	Habitat importance map	0.0000

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Buloke Mistletoe	Amyema linophylla subsp. orientalis	500217	Vulnerable	Dispersed	Habitat importance map	0.0000
Buloke	Allocasuarina luehmannii	500678	Endangered	Dispersed	Habitat importance map	0.0000
Spotted Emu-bush	Eremophila maculata subsp. maculata	501204	Rare	Dispersed	Habitat importance map	0.0000
Long Eryngium	Eryngium paludosum	501238	Vulnerable	Dispersed	Habitat importance map	0.0000
Kamarooka Mallee	Eucalyptus froggattii	501279	Rare	Dispersed	Habitat importance map	0.0000
Smooth Minuria	Minuria integerrima	502201	Rare	Dispersed	Habitat importance map	0.0000
Small-leaf Bush-pea	Pultenaea foliolosa	502848	Rare	Dispersed	Habitat importance map	0.0000
Dwarf Bitter-cress	Rorippa eustylis	502944	Rare	Dispersed	Habitat importance map	0.0000
Branching Groundsel	Senecio cunninghamii var. cunninghamii	503104	Rare	Dispersed	Habitat importance map	0.0000
Twiggy Sida	Sida intricata	503143	Vulnerable	Dispersed	Habitat importance map	0.0000
Red Swainson-pea	Swainsona plagiotropis	503324	Endangered	Dispersed	Habitat importance map	0.0000
Downy Swainson-pea	Swainsona swainsonioides	503328	Endangered	Dispersed	Habitat importance map	0.0000
Small Burr-grass	Tragus australianus	503418	Rare	Dispersed	Habitat importance map	0.0000
Grassland Velleia	Velleia arguta	503487	Rare	Dispersed	Habitat importance map	0.0000
Yellow-tongue Daisy	Brachyscome chrysoglossa	503654	Vulnerable	Dispersed	Habitat importance map	0.0000
Spiny-fruit Saltbush	Atriplex spinibractea	504608	Endangered	Dispersed	Habitat importance map	0.0000
Southern Swainson-pea	Swainsona behriana	504944	Rare	Dispersed	Habitat importance map	0.0000
Silky Swainson-pea	Swainsona sericea	504946	Vulnerable	Dispersed	Habitat importance map	0.0000

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Riverina Bitter-cress	Cardamine moirensis	505032	Rare	Dispersed	Habitat importance map	0.0000
Woolly Wattle	Acacia lanigera var. lanigera	505093	Rare	Dispersed	Habitat importance map	0.0000

Habitat Group

- Highly localised habitat means there is 2,000 hectares or less mapped habitat for the species.
- Dispersed habitat means there is more than 2,000 hectares of mapped habitat for the species.

Habitat Impacted

The Species General Offset test, as described in Section 5.3.1 of the Guidelines, is used to determine if proposed native vegetation removal will result in a proportionally significant impact on the habitat value of rare or threatened species. The test is applied where the native vegetation proposed for removal:

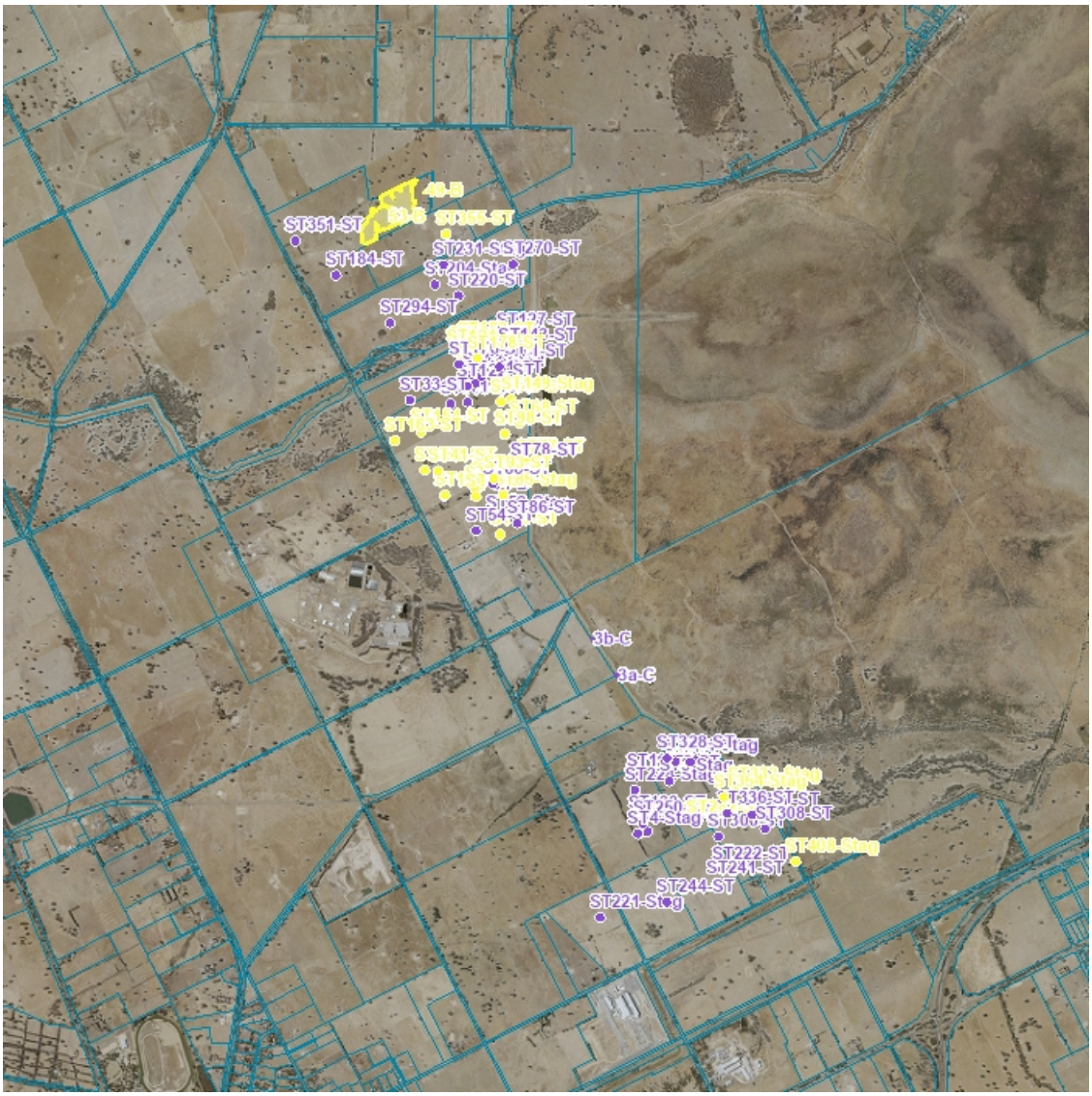
- Intersects the Habitat Importance Map for a rare or threatened species; or
- Intersects the 'top ranking' modelled habitat for a rare or threatened species with dispersed habitat, as identified in its Top Ranking Habitat Importance Map.

Top Ranking Maps consist of the 2,000 hectares of habitat with the highest Habitat Importance Scores for each dispersed species.

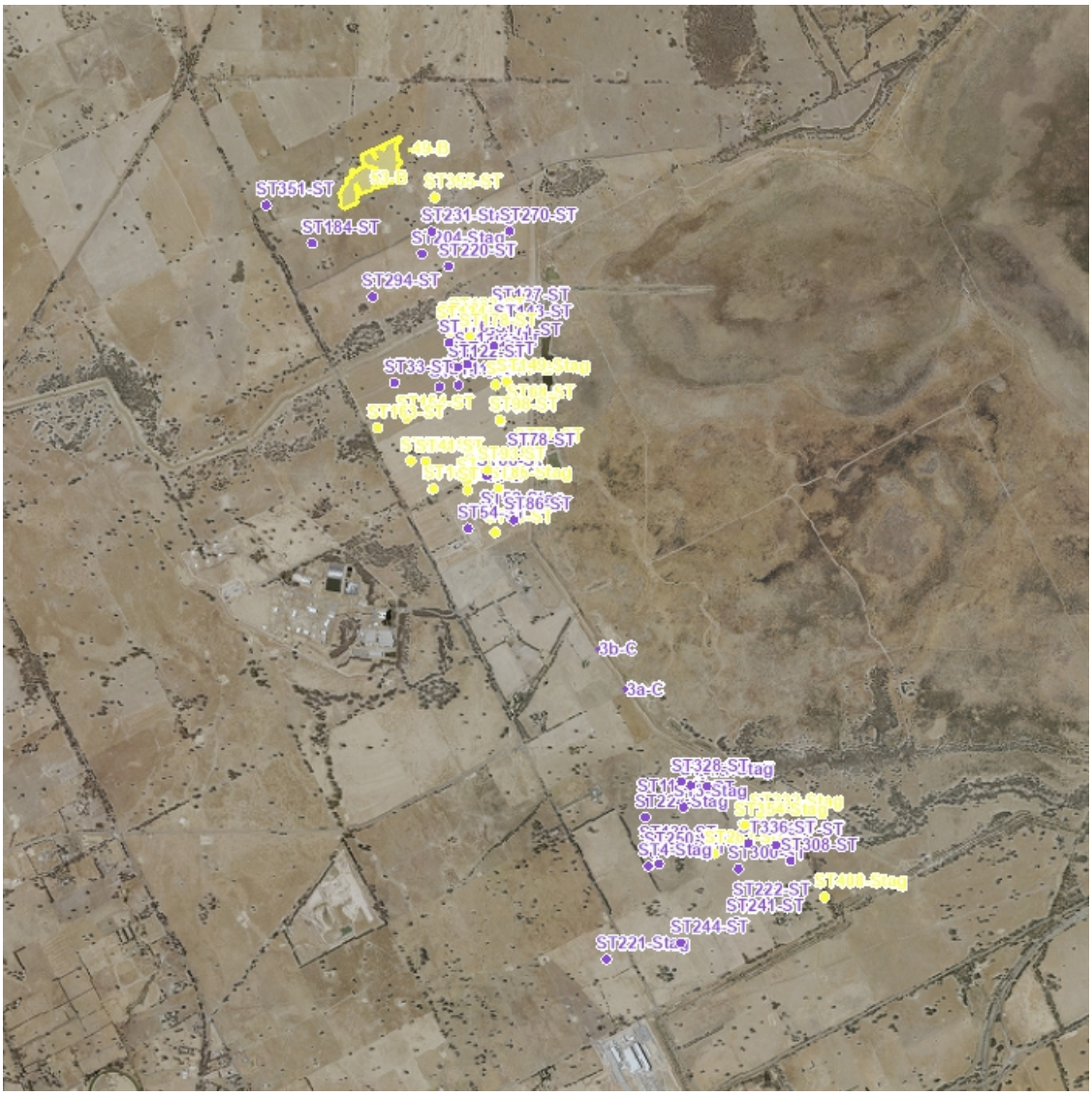
The 'Habitat impacted' column identifies whether the Habitat Importance Map or its Top Ranking Map was used to determine the proportional impact for a species with dispersed habitat.

Appendix 3: Images of mapped native vegetation

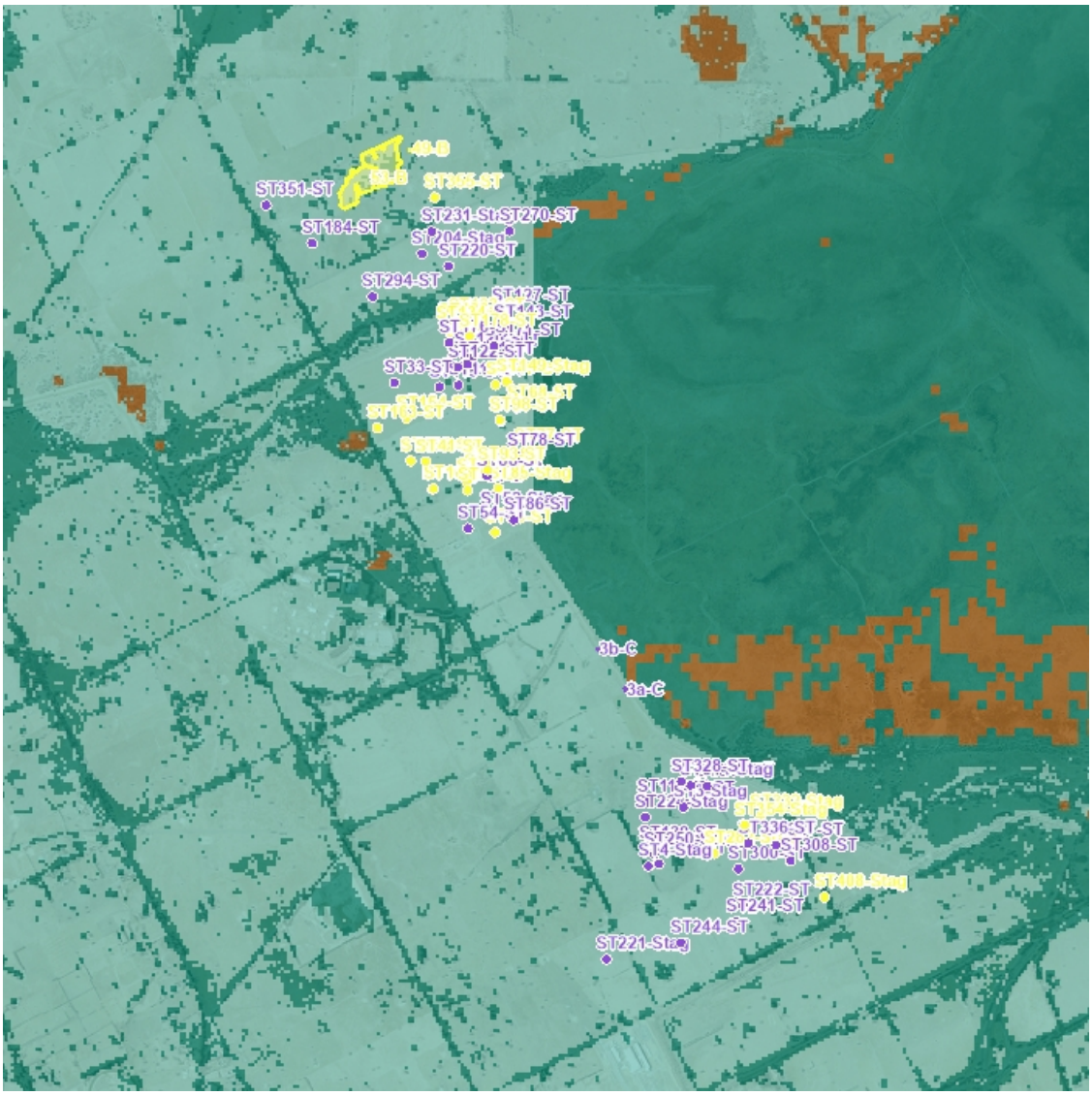
1. Property in context



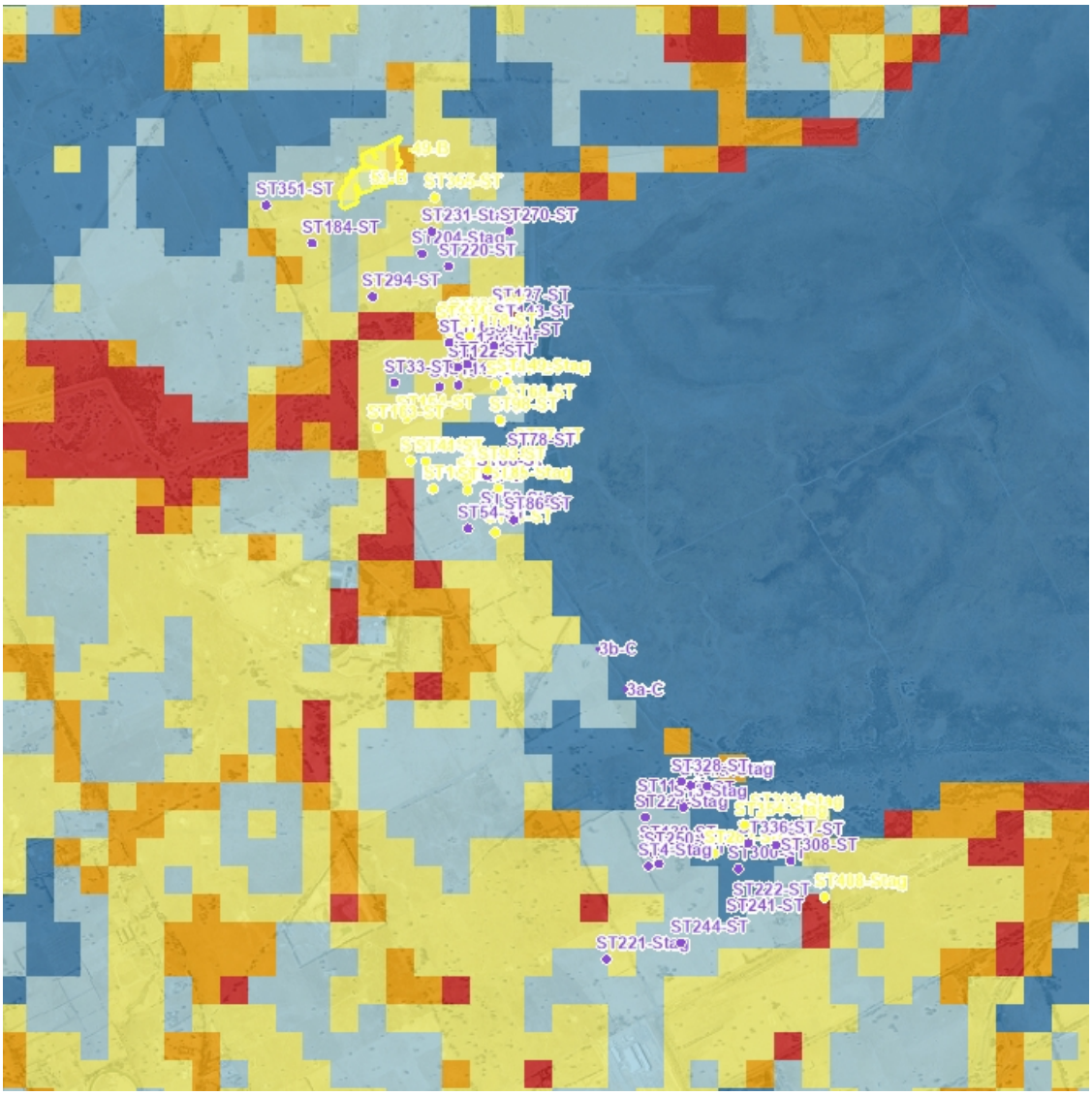
2. Aerial photograph showing mapped native vegetation



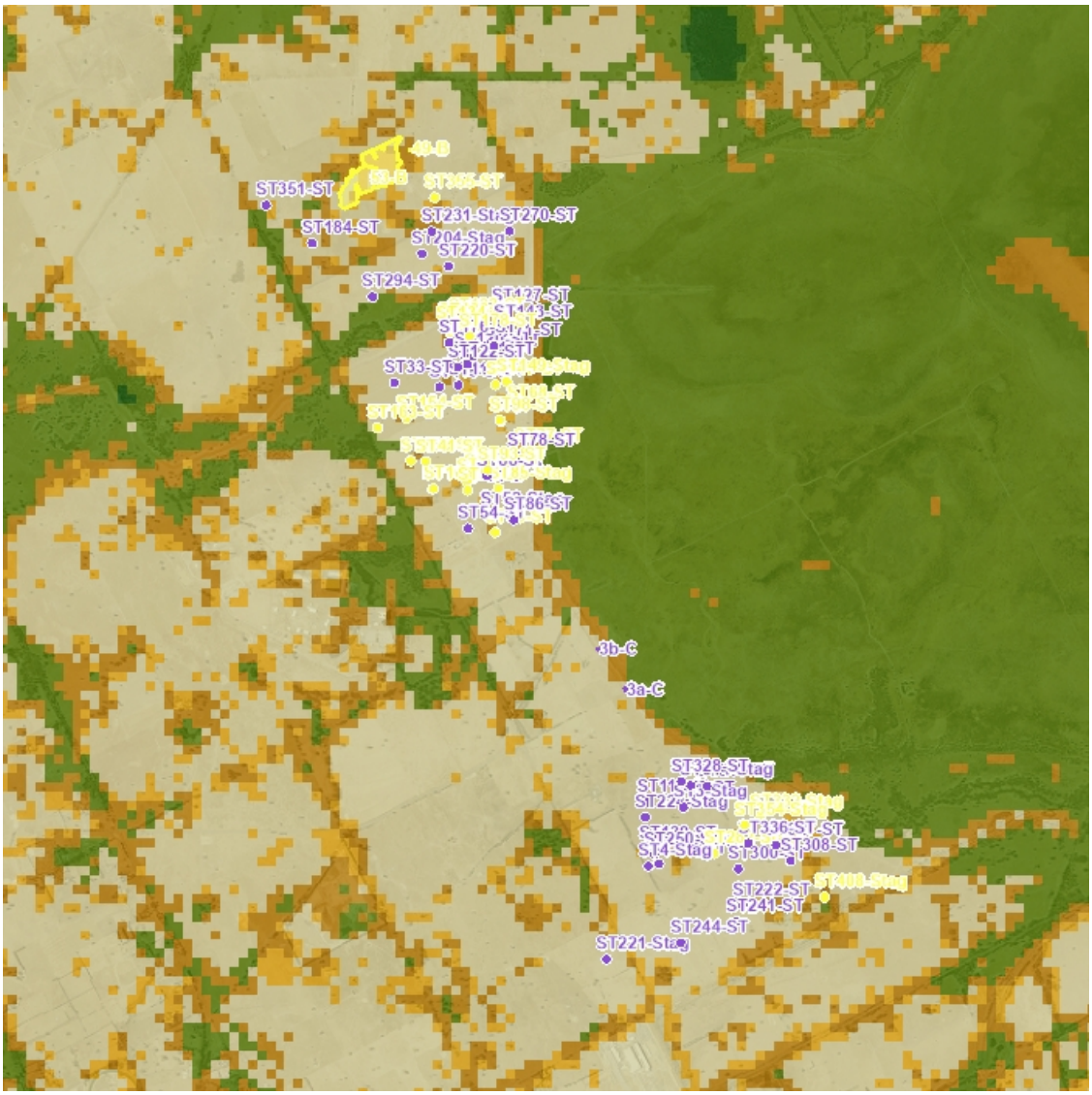
3. Location Risk Map



4. Strategic Biodiversity Value Score Map



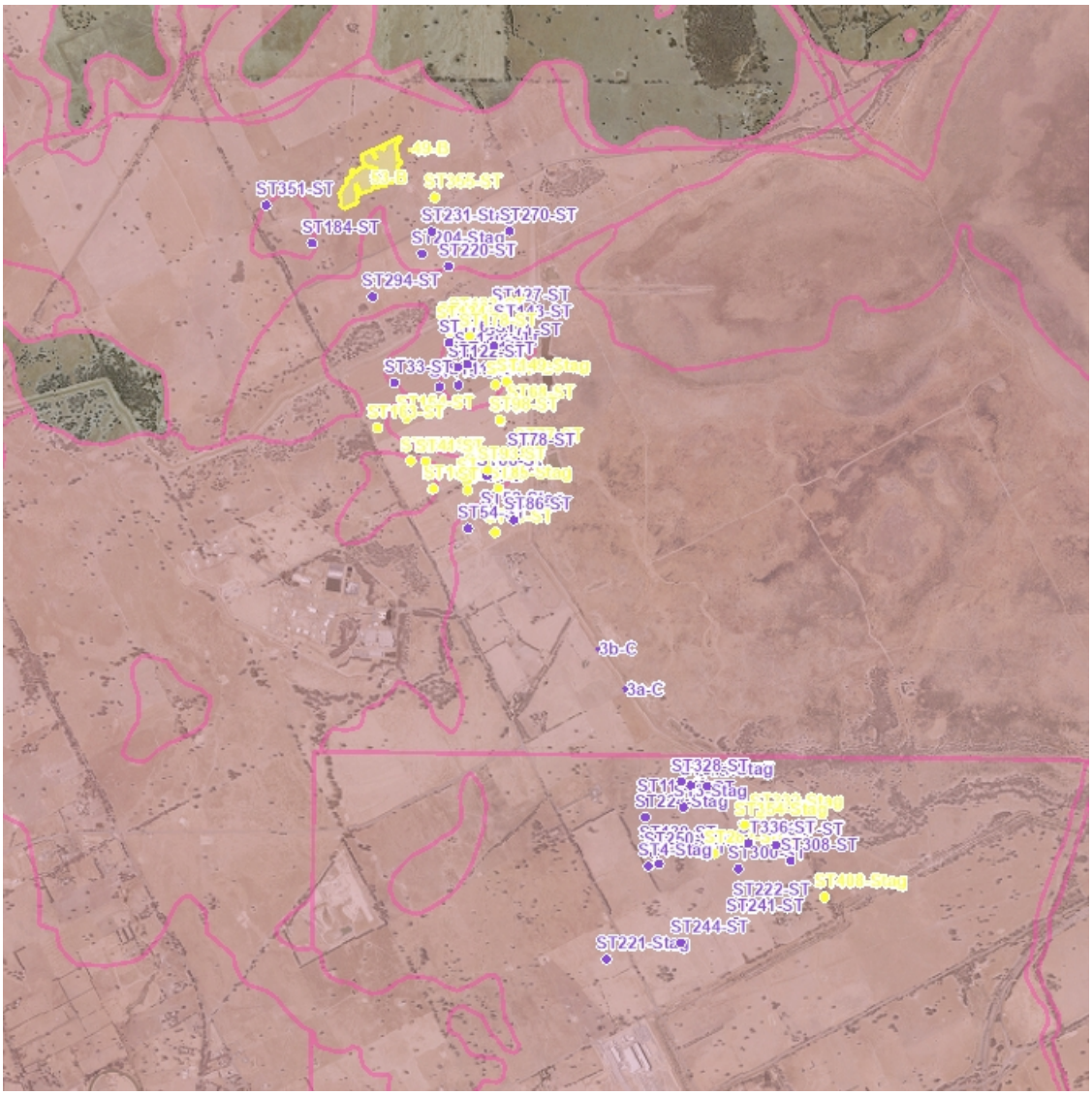
5. Modelled Condition Score Map



- Proposed Removal
- Past Removal
- Partial Removal

- 0.81 - 1.00
- 0.61 - 0.80
- 0.41 - 0.60
- 0.21 - 0.40
- 0.00 - 0.20

6. Modelled Endangered EVCs



7. Habitat Importance maps

Not Applicable

Native Vegetation Removal Report

NVRR ID: 381_20250214_NRQ

This report provides information to support an application to remove, destroy or lop native vegetation in accordance with the *Guidelines for the removal, destruction or lopping of native vegetation* (the Guidelines). This report is **not an assessment by DEECA** of the proposed native vegetation removal. Native vegetation information and offset requirements have been determined using spatial data provided by the applicant or their consultant.

Report details

Date created: 14/02/2025

Local Government Area: BENALLA RURAL CITY

Shapefile name:
KennedyCrk_Mokoan_InadvertentLoss_NVR_VG20_Trees_20250214.shp
KennedyCrk_Mokoan_InadvertentLoss_NVR_VG20_20250214.shp

Site assessor name:
JP
Karina Salmon

Registered Aboriginal Party: Yorta Yorta

Coordinates: 146.00578, -36.45652

Address:
BENALLA-YARRAWONGA ROAD GOORAMBAT 3725
81 LAKE MOKOAN ROAD GOORAMBAT 3725
616 BENALLA-YARRAWONGA ROAD BENALLA 3672
572 BENALLA-YARRAWONGA ROAD BENALLA 3672
892 BENALLA-YARRAWONGA ROAD GOORAMBAT 3725
127 NELSON ROAD BENALLA 3672
BENALLA-YARRAWONGA ROAD BENALLA 3672

Regulator Notes

Removal polygons are located:
This report includes partial removal

Summary of native vegetation to be removed

Assessment pathway	**Detailed Assessment Pathway**		
Location category	Location 2 The native vegetation extent map indicates that this area is typically characterised as supporting native vegetation. Additionally, it is modelled as encompassing an endangered Ecological Vegetation Class, sensitive wetland or sensitive coastal area. The removal of less than 0.5 hectares of native vegetation in this area will not require a Species Offset.		
Total extent including past and proposed removal (ha) *Includes endangered EVCs (ha): 14.917*	**14.917**	*Extent of past removal (ha)*	*0*
		Extent of proposed removal - Patches (ha)	*13.173*
		Extent of proposed removal - Scattered Trees (ha)	*1.744*
No. Large Trees proposed to be removed	**25**	*No. Large Patch Trees*	*1*
		No. Large Scattered Trees	*24*
No. Small Scattered Trees	4		

Offset requirements if approval is granted

Any approval granted will include a condition to obtain an offset, before the removal of native vegetation, that meets the following requirements:

General Offset amount [1]	**2.6850 General Habitat Units**
Vicinity	Goulburn Broken CMA or BENALLA RURAL CITY LGA
Minimum strategic biodiversity value score [2]	0.3367
Large Trees*	25
***The total number of Large Trees that the offset must protect**	**25** Large Trees to be protected in either the General, Species or combination across all habitat units protected

NB: values within tables in this document may not add to the totals shown above due to rounding
Appendix 1 includes information about the native vegetation to be removed
Appendix 2 includes information about the rare or threatened species with mapped habitat at the site
Appendix 3 includes the following figures

- Location map
- Strategic Biodiversity Value map
- Condition map
- Endangered EVCs map
- Aerial photograph showing mapped native vegetation
- Property in context
- Habitat Importance maps

1. The General Offset amount required is the sum of all General Habitat Units in Appendix 1.
2. Minimum strategic biodiversity value score is 80 per cent of the weighted average score across habitat zones where a General Offset is required.
3. The Species Offset amount(s) required is the sum of all Species Habitat Units in Appendix 1.

Next steps

Any proposal to remove native vegetation must meet the application requirements of the Detailed Assessment Pathway and it will be assessed under the Detailed Assessment Pathway.

If you wish to remove the mapped native vegetation you are required to apply for approval from the responsible authority. The responsible authority will refer your application to DEECA for assessment, as required. **This report is not a referral assessment by DEECA.**

This *Native vegetation removal report* must be submitted with your application for approval to remove, destroy or lop native vegetation.

Refer to the Guidelines for a full list of application requirements This report provides information that meets the following application requirements:

- The assessment pathway and reason for the assessment pathway.
- A description of the native vegetation to be removed (partly met).
- Maps showing the native vegetation and property (partly met).
- Information about the impacts on rare or threatened species.
- The offset requirements determined in accordance with Section 5 of the Guidelines that apply if approval is granted to remove native vegetation.

Additional application requirements must be met including:

- Topographical and land information
- Recent dated photographs.
- Details of past native vegetation removal.
- An avoid and minimise statement.
- A copy of any Property Vegetation Plan as applicable.
- A defendable space statement as applicable.
- A statement about the Native Vegetation Precinct Plan (NVPP) as applicable.
- A site assessment report including a habitat hectare assessment of any patches of native vegetation and details of trees.
- An offset statement that explains that an offset has been identified and how it will be secured.

Appendix 1: Description of native vegetation to be removed

The Species-General Offset Test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats above the Species Offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact meets or exceeds the Species Offset threshold, a Species Offset is required. This test is completed for all species with mapped habitat at the site. Multiple Species Offsets will be required if the Species Offset threshold is exceeded for multiple species.

Where a zone requires Species Offset(s), the Species Habitat Units for each species in that zone are calculated by the following equation in accordance with the Guidelines: ***Species Habitat Units = extent without overlap x condition score x species landscape factor x 2, where the species landscape factor = 0.5 + (habitat importance score/2)***

The Species Offset amount(s) required is the sum of all Species Habitat Units per zone.

Where a zone does not require a Species Offset, the General Habitat Units in that zone are calculated by the following equation in accordance with the Guidelines: ***General Habitat Units = extent without overlap x condition score x general landscape factor x 1.5, where the general landscape factor = 0.5 + (strategic biodiversity value score/2)***

The General Offset amount required is the sum of all General Habitat Units per zone.

Native vegetation to be removed

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
36-B	Patch	-	VRiv0235	Endangered	no	0.220	1	0.018	0.018	0.460	-	0.004	General
49-B	Patch	-	VRiv0803	Endangered	no	0.220	-	0.049	0.049	0.652	-	0.013	General
53-B	Patch	-	VRiv0803	Endangered	yes	0.330	-	13.106	13.106	0.433	-	2.325	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
ST104-ST	Scattered Tree	76	VRiv0803	Endangered	no	0.200	1	0.070	0.062	0.237	-	0.011	General
ST105-ST	Scattered Tree	106	VRiv0803	Endangered	no	0.200	1	0.070	0.062	0.221	-	0.011	General
ST132-ST	Scattered Tree	205	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST133-ST	Scattered Tree	144	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST134-ST	Scattered Tree	90	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST147-ST	Scattered Tree	195	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.418	-	0.015	General
ST149-Stag	Scattered Tree	70	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.260	-	0.013	General
ST154-ST	Scattered Tree	88	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General
ST158-ST	Scattered Tree	122	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST163-ST	Scattered Tree	172	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.440	-	0.015	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
ST165-ST	Scattered Tree	25	VRiv0803	Endangered	no	0.200	-	0.031	0.024	0.250	-	0.004	General
ST166-ST	Scattered Tree	30	VRiv0803	Endangered	no	0.200	-	0.031	0.024	0.250	-	0.004	General
ST178-ST	Scattered Tree	109	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.460	-	0.015	General
ST282-Stag	Scattered Tree	101	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST332-Stag	Scattered Tree	110	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST354-Stag	Scattered Tree	113	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.100	-	0.012	General
ST355-ST	Scattered Tree	90	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.380	-	0.015	General
ST408-Stag	Scattered Tree	78	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.920	-	0.020	General
ST41-ST	Scattered Tree	10	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.250	-	0.006	General
ST50-ST	Scattered Tree	15	VRiv0803	Endangered	no	0.200	-	0.031	0.031	0.250	-	0.006	General

Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	**Type**	**DBH (cm)**	**EVC code**	**Bioregional conservation status**	**Partial Removal**	**Condition score**	**Large Tree(s)**	**Polygon extent (ha)**	**Extent without overlap (ha)**	**SBV score**	**HI Score**	**Habitat Units**	**Offset Type**
ST51-ST	Scattered Tree	124	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.249	-	0.013	General
ST53-ST	Scattered Tree	186	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.250	-	0.013	General
ST68-ST	Scattered Tree	123	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.250	-	0.013	General
ST77-ST	Scattered Tree	118	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.159	-	0.012	General
ST85-Stag	Scattered Tree	131	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.240	-	0.013	General
ST93-ST	Scattered Tree	130	VRiv0803	Endangered	no	0.200	1	0.070	0.070	0.220	-	0.013	General
ST97-ST	Scattered Tree	107	VRiv0803	Endangered	no	0.200	1	0.070	0.051	0.244	-	0.010	General
ST98-ST	Scattered Tree	71	VRiv0803	Endangered	no	0.200	1	0.070	0.051	0.250	-	0.010	General

Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table identifies all rare or threatened species with mapped habitat at the site and the proportional impact associated with the proposed native vegetation removal.

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Euroa Guinea-flower	Hibbertia humifusa subsp. erigens	505083	Vulnerable	Dispersed	Habitat importance map	0.0010
Mugga	Eucalyptus sideroxylon subsp. sideroxylon	504493	Rare	Dispersed	Habitat importance map	0.0007
Western Silver Wattle	Acacia decora	500027	Vulnerable	Dispersed	Habitat importance map	0.0006
Yarran Wattle	Acacia omalophylla	500069	Endangered	Dispersed	Habitat importance map	0.0006
Narrow Goodenia	Goodenia macbarronii	501513	Vulnerable	Dispersed	Habitat importance map	0.0003
Northern Sandalwood	Santalum lanceolatum	503005	Endangered	Dispersed	Habitat importance map	0.0003
Ausfeld's Wattle	Acacia ausfeldii	500013	Vulnerable	Dispersed	Habitat importance map	0.0002
Bent-leaf Wattle	Acacia flexifolia	500030	Rare	Dispersed	Habitat importance map	0.0002
Umbrella Grass	Digitaria divaricatissima var. divaricatissima	501045	Vulnerable	Dispersed	Habitat importance map	0.0002
Western Golden-tip	Goodia medicaginea	501518	Rare	Dispersed	Habitat importance map	0.0002
Cottony Cassinia	Cassinia ozothamnoides	501560	Vulnerable	Dispersed	Habitat importance map	0.0002
Velvet Daisy-bush	Olearia pannosa subsp. cardiophylla	502317	Vulnerable	Dispersed	Habitat importance map	0.0002
Dwarf Cassinia	Cassinia diminuta	507664	Rare	Dispersed	Habitat importance map	0.0002
Brolga	Grus rubicunda	10177	Vulnerable	Dispersed	Habitat importance map	0.0001
Bearded Dragon	Pogona barbata	12177	Vulnerable	Dispersed	Habitat importance map	0.0001

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Mueller Daisy	Brachyscome muelleroides	500465	Endangered	Dispersed	Habitat importance map	0.0001
Plump Windmill Grass	Chloris ventricosa	500757	Vulnerable	Dispersed	Habitat importance map	0.0001
Golden Cowslips	Diuris behrii	501061	Vulnerable	Dispersed	Habitat importance map	0.0001
Purple Diuris	Diuris punctata	501084	Vulnerable	Dispersed	Habitat importance map	0.0001
Veiled Fringe-sedge	Fimbristylis velata	501369	Rare	Dispersed	Habitat importance map	0.0001
Slender Club-sedge	Isolepis congrua	501773	Vulnerable	Dispersed	Habitat importance map	0.0001
Lanky Buttons	Leptorhynchos elongatus	501041	Endangered	Dispersed	Habitat importance map	0.0001
Waterbush	Myoporum montanum	502240	Rare	Dispersed	Habitat importance map	0.0001
Small Scurf-pea	Cullen parvum	502773	Endangered	Dispersed	Habitat importance map	0.0001
Rye Beetle-grass	Tripogon loliiformis	503455	Rare	Dispersed	Habitat importance map	0.0001
Dwarf Brooklime	Gratiola pumilo	503753	Rare	Dispersed	Habitat importance map	0.0001
Broom Bitter-pea	Daviesia genistifolia s.s.	503813	Rare	Dispersed	Habitat importance map	0.0001
Jericho Wire-grass	Aristida jerichoensis var. subspinulifera	504631	Endangered	Dispersed	Habitat importance map	0.0001
Pale Swamp Everlasting	Coronidium gunnianum	504655	Vulnerable	Dispersed	Habitat importance map	0.0001
Pepper Grass	Panicum laevinode	504808	Vulnerable	Dispersed	Habitat importance map	0.0001
Fuzzy New Holland Daisy	Vittadinia cuneata var. morrisii	505060	Rare	Dispersed	Habitat importance map	0.0001
Late-flower Flax-lily	Dianella tarda	505085	Vulnerable	Dispersed	Habitat importance map	0.0001
Delicate Crane's-bill	Geranium sp. 6	505347	Vulnerable	Dispersed	Habitat importance map	0.0001

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Floodplain Fireweed	Senecio campylocarpus	507136	Rare	Dispersed	Habitat importance map	0.0001
Grey Grass-tree	Xanthorrhoea glauca subsp. angustifolia	507229	Endangered	Dispersed	Habitat importance map	0.0001
Australian Painted Snipe	Rostratula australis	10170	Critically endangered	Dispersed	Habitat importance map	0.0000
Bush Stone-curlew	Burhinus grallarius	10174	Endangered	Dispersed	Habitat importance map	0.0000
Australian Little Bittern	Ixobrychus dubius	10195	Endangered	Dispersed	Habitat importance map	0.0000
Australasian Shoveler	Anas rhynchotis	10212	Vulnerable	Dispersed	Habitat importance map	0.0000
Hardhead	Aythya australis	10215	Vulnerable	Dispersed	Habitat importance map	0.0000
Black Falcon	Falco subniger	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
Elegant Parrot	Neophema elegans	10307	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey-crowned Babbler	Pomatostomus temporalis temporalis	10443	Endangered	Dispersed	Habitat importance map	0.0000
Painted Honeyeater	Grantiella picta	10598	Vulnerable	Dispersed	Habitat importance map	0.0000
Buloke Mistletoe	Amyema linophylla subsp. orientalis	500217	Vulnerable	Dispersed	Habitat importance map	0.0000
Buloke	Allocasuarina luehmannii	500678	Endangered	Dispersed	Habitat importance map	0.0000
Silky Umbrella-grass	Digitaria ammophila	501041	Vulnerable	Dispersed	Habitat importance map	0.0000
Long Eryngium	Eryngium paludosum	501238	Vulnerable	Dispersed	Habitat importance map	0.0000
Kamarooka Mallee	Eucalyptus froggattii	501279	Rare	Dispersed	Habitat importance map	0.0000
Clover Glycine	Glycine latrobeana	501456	Vulnerable	Dispersed	Habitat importance map	0.0000
Smooth Minuria	Minuria integerrima	502201	Rare	Dispersed	Habitat importance map	0.0000

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Ridged Water-milfoil	Myriophyllum porcatum	502257	Vulnerable	Dispersed	Habitat importance map	0.0000
Hairy Tails	Ptilotus erubescens	502825	Vulnerable	Dispersed	Habitat importance map	0.0000
Small-leaf Bush-pea	Pultenaea foliolosa	502848	Rare	Dispersed	Habitat importance map	0.0000
Dwarf Bitter-cress	Rorippa eustylis	502944	Rare	Dispersed	Habitat importance map	0.0000
Stiff Groundsel	Senecio behrianus	503101	Endangered	Dispersed	Habitat importance map	0.0000
Branching Groundsel	Senecio cunninghamii var. cunninghamii	503104	Rare	Dispersed	Habitat importance map	0.0000
Twiggy Sida	Sida intricata	503143	Vulnerable	Dispersed	Habitat importance map	0.0000
Red Swainson-pea	Swainsona plagiotropis	503324	Endangered	Dispersed	Habitat importance map	0.0000
Downy Swainson-pea	Swainsona swainsonioides	503328	Endangered	Dispersed	Habitat importance map	0.0000
Small Burr-grass	Tragus australianus	503418	Rare	Dispersed	Habitat importance map	0.0000
Grassland Velleia	Velleia arguta	503487	Rare	Dispersed	Habitat importance map	0.0000
Yellow-tongue Daisy	Brachyscome chrysoglossa	503654	Vulnerable	Dispersed	Habitat importance map	0.0000
Striped Water-milfoil	Myriophyllum striatum	503869	Vulnerable	Dispersed	Habitat importance map	0.0000
Spiny Rice-flower	Pimelea spinescens subsp. spinescens	504823	Endangered	Dispersed	Habitat importance map	0.0000
Southern Swainson-pea	Swainsona behriana	504944	Rare	Dispersed	Habitat importance map	0.0000
Silky Swainson-pea	Swainsona sericea	504946	Vulnerable	Dispersed	Habitat importance map	0.0000
Riverina Bitter-cress	Cardamine moirensis	505032	Rare	Dispersed	Habitat importance map	0.0000
Woolly Wattle	Acacia lanigera var. lanigera	505093	Rare	Dispersed	Habitat importance map	0.0000

Habitat Group

- Highly localised habitat means there is 2,000 hectares or less mapped habitat for the species.
- Dispersed habitat means there is more than 2,000 hectares of mapped habitat for the species.

Habitat Impacted

The Species General Offset test, as described in Section 5.3.1 of the Guidelines, is used to determine if proposed native vegetation removal will result in a proportionally significant impact on the habitat value of rare or threatened species. The test is applied where the native vegetation proposed for removal:

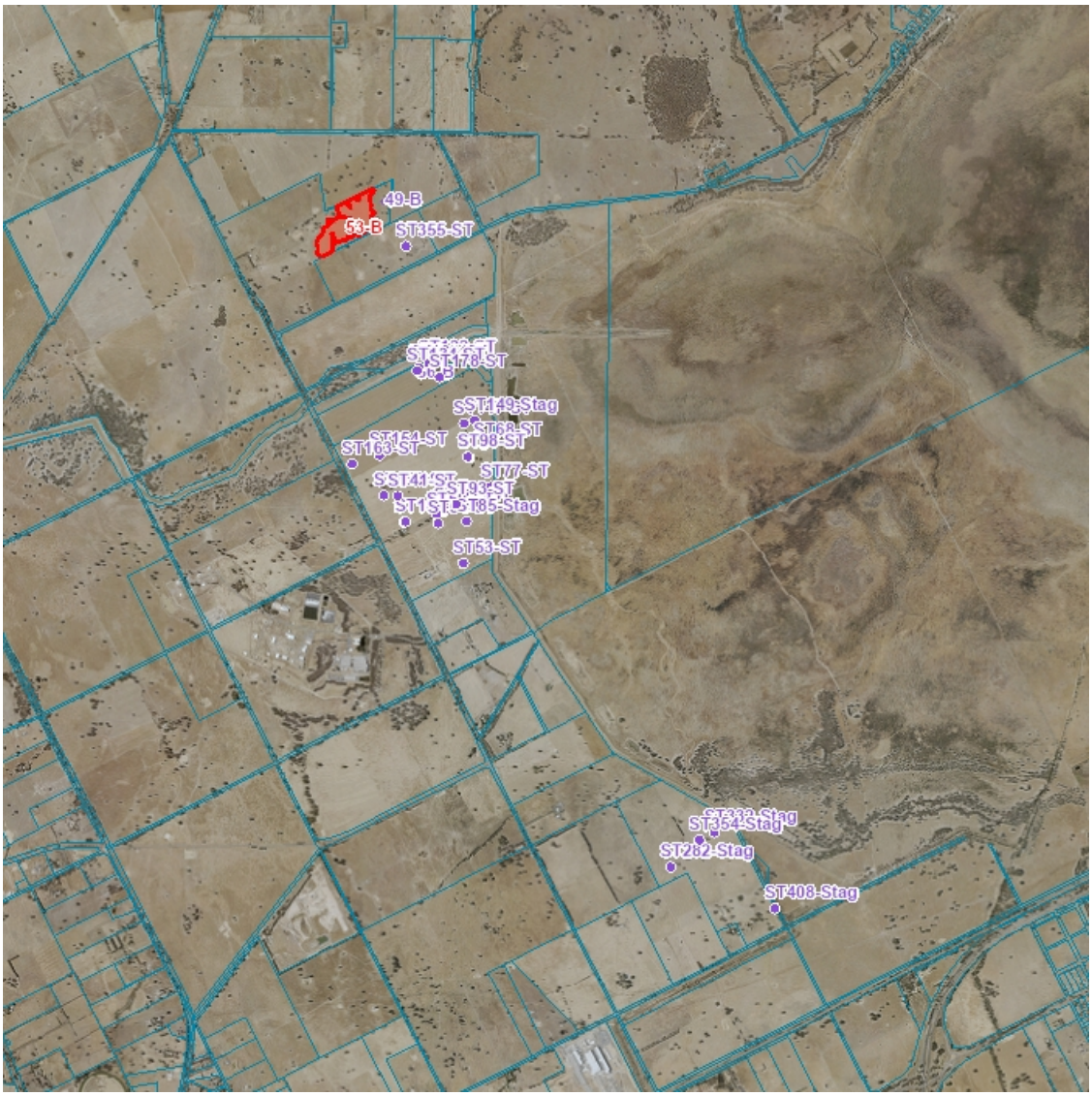
- Intersects the Habitat Importance Map for a rare or threatened species; or
- Intersects the 'top ranking' modelled habitat for a rare or threatened species with dispersed habitat, as identified in its Top Ranking Habitat Importance Map.

Top Ranking Maps consist of the 2,000 hectares of habitat with the highest Habitat Importance Scores for each dispersed species.

The 'Habitat impacted' column identifies whether the Habitat Importance Map or its Top Ranking Map was used to determine the proportional impact for a species with dispersed habitat.

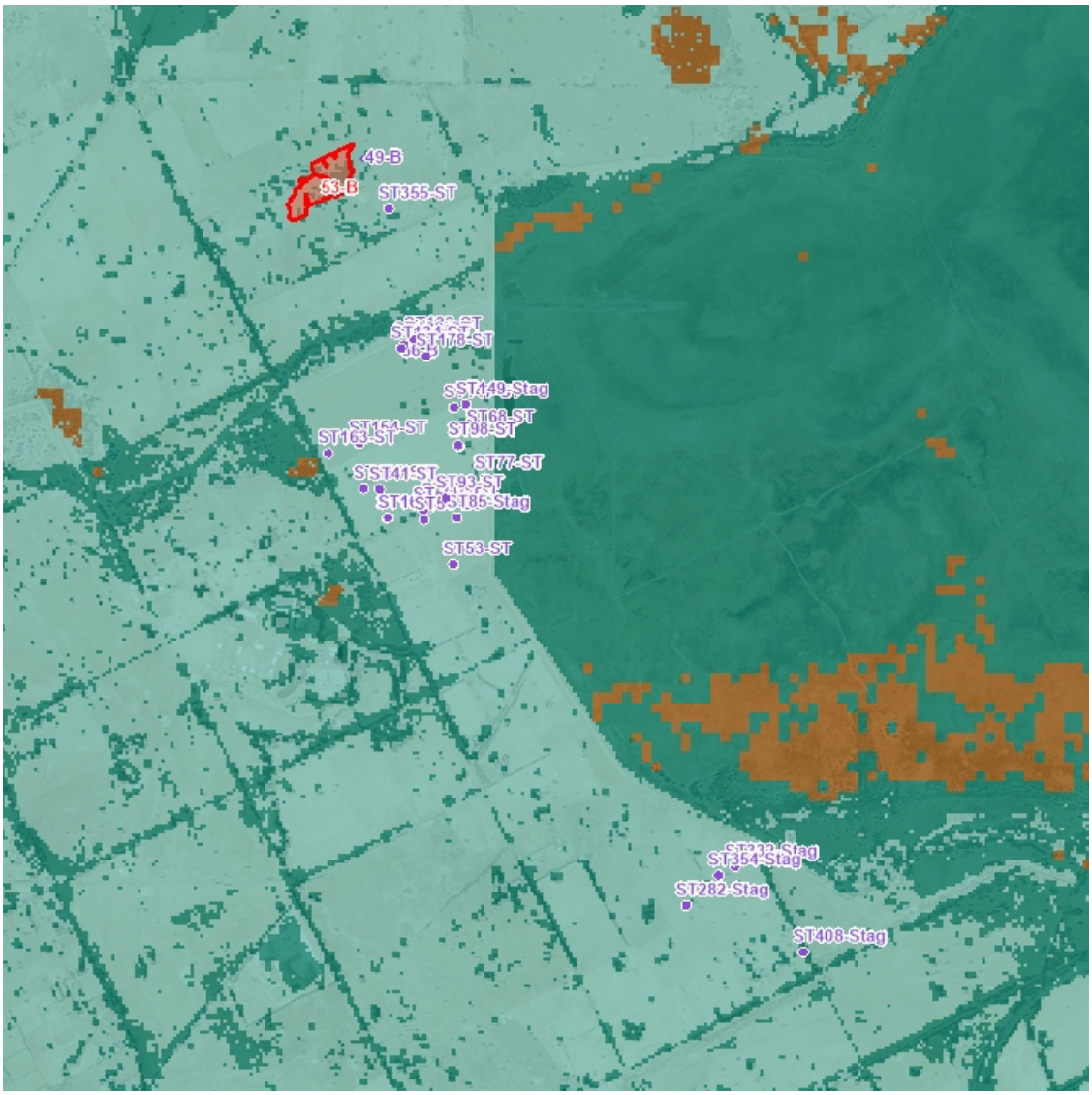
Appendix 3: Images of mapped native vegetation

1. Property in context

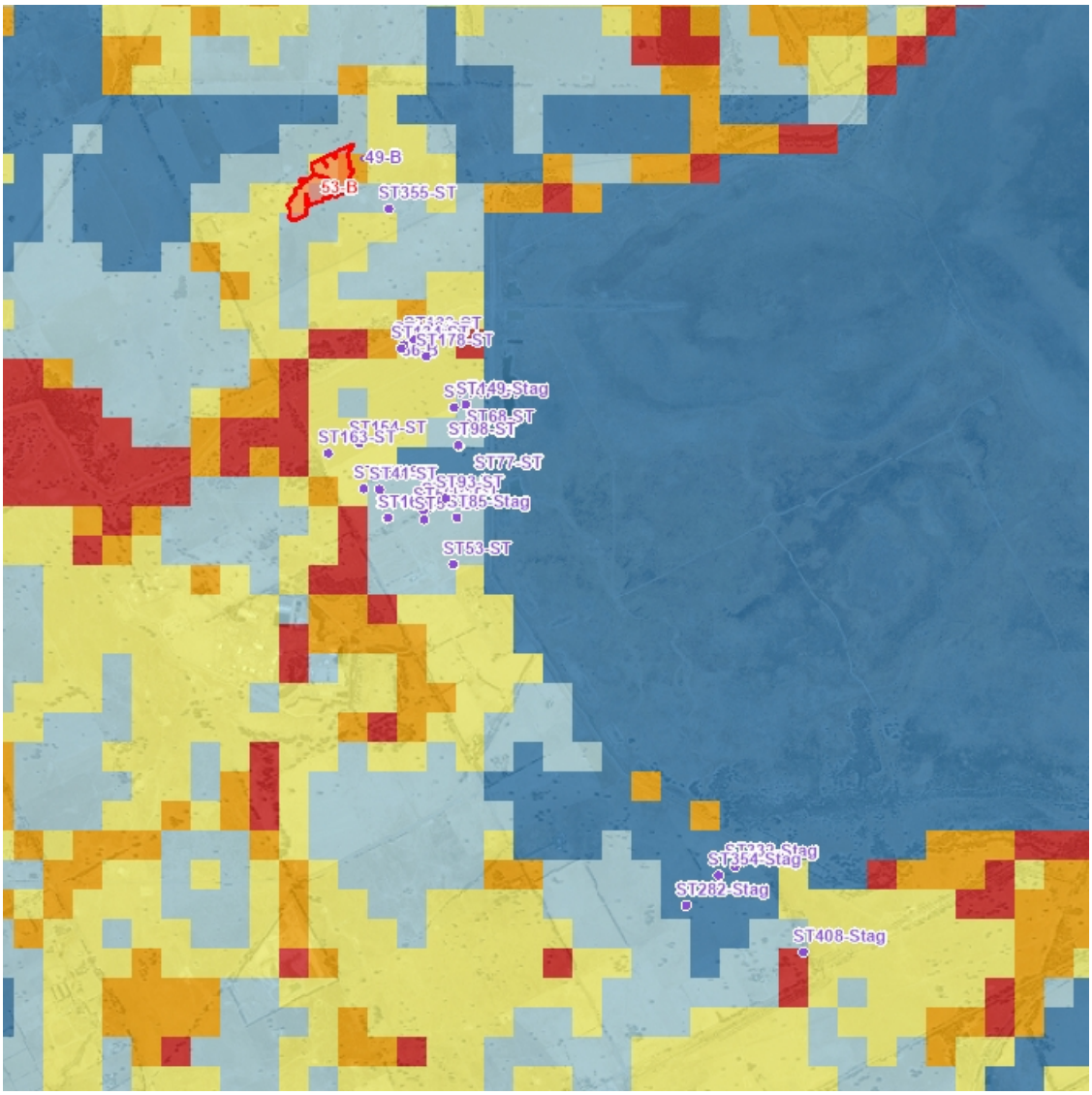


2. Aerial photograph showing mapped native vegetation

3. Location Risk Map

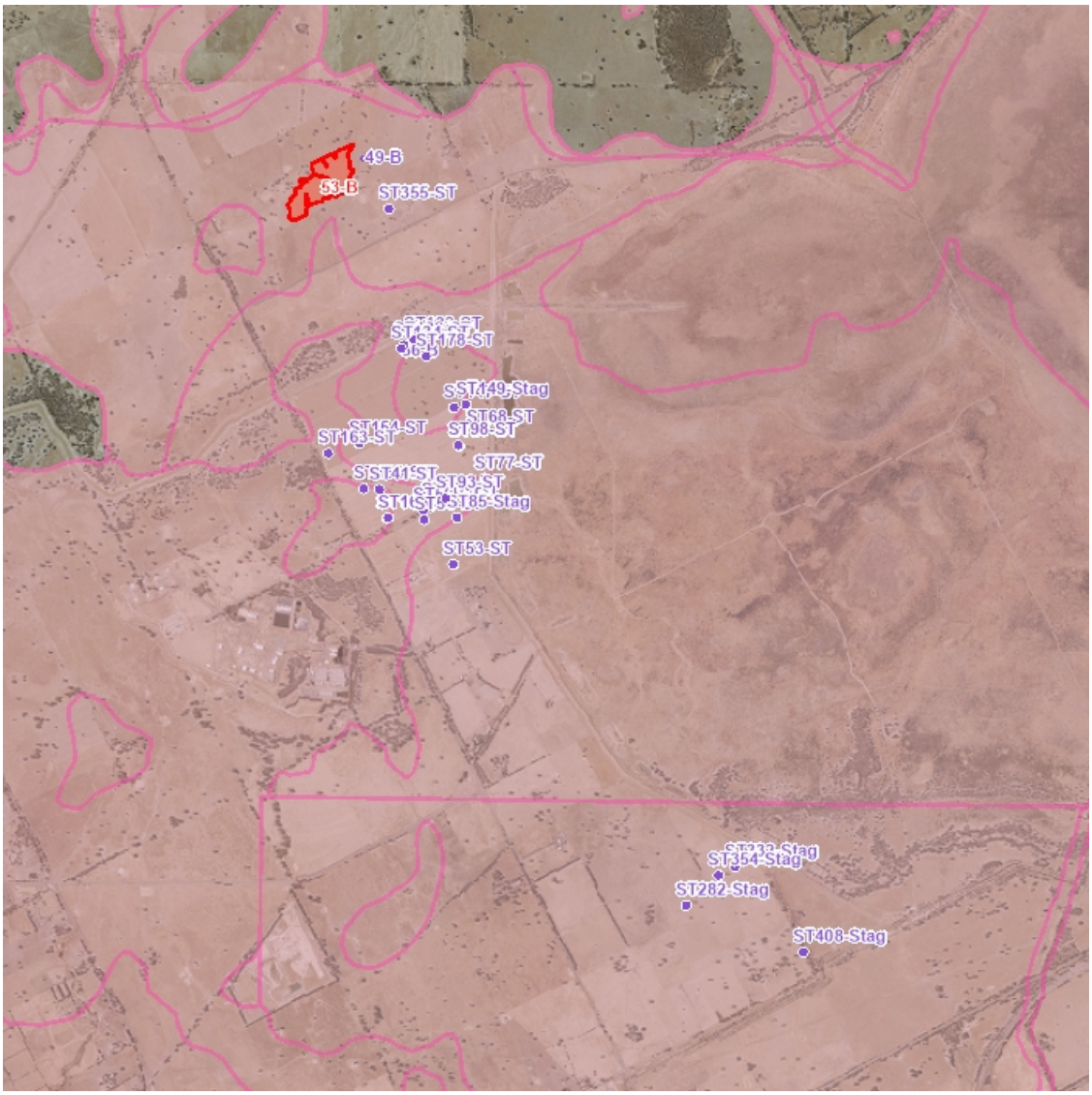


4. Strategic Biodiversity Value Score Map



5. Modelled Condition Score Map

6. Modelled Endangered EVCs



Proposed Removal
Past Removal
Partial Removal
Endangered 1750 Ecological Vegetation Classes

N

900 m

7. Habitat Importance maps

Not Applicable

Appendix C

Offset statement

Appendix C Offset statement

AECOM Australia Pty Ltd
Wurundjeri and Bunurong Country
Tower 2, Level 10
727 Collins Street
Melbourne VIC 3008
Australia
www.aecom.com

+61 1800 868 654 tel

ABN 20 093 846 925

6 June 2025

Kristy Zhang
Environmental Planner
Lightsource bp

Dear Kristy,

I understand the biodiversity offsets required for the West Mokoan Solar Project include those listed below in Table 1. As per the Application to remove native vegetation, the biodiversity offsets for the Project are split to reflect the native vegetation loss type (Design Loss and Inadvertent Loss) as well as the overall 'Combined Loss' offset required to be achieved.

Table 1 Offset requirements

Native vegetation removal type	Unit type	Amount	Minimum strategic biodiversity value score	Large trees	Credit location
Design Loss	**General offset amount**	0.5640	0.2531	42	Goulburn Broken CMA region or Benalla Rural City Council
Inadvertent Loss		2.6850	0.3367	25	
Total Combined Loss		3.2490	0.3233	67	

Attached to this letter are native vegetation offset quotes provided by Vegetation Link (dated 27 May 2025). These quotes demonstrate that the required offsets are currently available for purchase via agreement with a third-party provider. These offset quotes also demonstrate that the project can achieve the overall 'Combined Loss' offsets.

Kind regards

Karina Salmon
Principal Ecologist
Karina.salmon@aecom.com

vegetationlink

27 May 2025

Our Ref: VLQ-11009-E1
Your Ref: West Mokoan 2 - Inadvertent Loss

Kristy Zhang
Lightsource BP
kristy.zhang@lightsourcebp.com

Dear Kristy,

Re: Quotation for the supply of native vegetation credits

Vegetation Link is an accredited offset broker with the Department of Energy, Environment and Climate Action (DEECA). Based on the information provided, I understand you require the following:

GHUs	Min. SBV	Vicinity	Large Trees
2.685	0.337	Goulburn Broken CMA or Benalla Rural City LGA	25

To meet your offset requirements, you can purchase native vegetation credits from a third party as per the trade[i] options quoted below. Credit trading turnaround time is approximately 2-5 weeks from acceptance of a valid quote. This quotation is valid for 14 days, subject to credit availability.

Option 1: Multiple CTA Pathway - offset sites located on Ngurrailum in the Greater Shepparton LGA (approx. 65 kms from the project site)	
Cost of 2.660 GHUs (invoiced by the Credit Owner)	$220,780.00
Cost of 0.025 GHUs + 25 LTs (invoiced by the Credit Owner)	$17,250.00
Cost of broker fee (invoiced by Vegetation Link)	$2,640.00
Subtotal cost ex. GST	$240,670.00
Total cost inc. GST	**$264,737.00**

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Option 2: Multiple CTA Pathway - offset sites located on Ngurraiillam in the Greater Shepparton LGA (approx. 65 kms from the project site)	
Cost of 2.660 GHUs (invoiced by DEECA)	$206,150.00
Cost of 0.025 GHUs + 25 LTs (invoiced by the Credit Owner)	$40,125.00
Cost of broker fee (invoiced by Vegetation Link)	$2,640.00
Subtotal cost ex. GST	$248,915.00
Total cost inc. GST	$273,806.50

Option 3: Multiple CTA Pathway - offset sites located on Ngurraiillam in the Greater Shepparton LGA (approx. 65-75 kms from the project site)	
Cost of 2.660 GHUs (invoiced by DEECA)	$206,150.00
Cost of 0.025 GHUs + 25 LTs (invoiced by the Credit Owner)	$40,125.00
Cost of broker fee (invoiced by Vegetation Link)	$2,640.00
Subtotal cost ex. GST	$248,915.00
Total cost inc. GST	$273,806.50

To proceed with a trade, please complete and return the purchaser details form provided via email. Upon receipt of the form, we will begin the trade process. Further details of the process are in the FAQ below.

Kind regards,

Shannen Hunter
Biodiversity Offset Broker

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FAQs

What is a third party offset?

A third-party offset means securing offsets from a site owned by a landowner who manages and protects native vegetation on their land or from a credit owner with excess credits to sell. Landowners who establish these offset sites are required to:

- Enter into a Landowner Agreement for the specified offset site. A landowner agreement is in perpetuity and is binding upon the current and future landowners of the site. It permanently restricts use of the site for many purposes.
- Implement a detailed 10-year Management Plan endorsed by the DEECA Native Vegetation Offset Register to manage and improve the biodiversity values of the site.

How is the price of native vegetation offset credits (GHUs, GBEUs etc.) determined?

Credit owners set their own price for native vegetation credits. They determine the price based on numerous factors. These include but are not limited to; site establishment costs, the cost to manage the site in perpetuity (e.g., maintain fencing, control pest species), foregone use cost and administrative costs. Depending on how the site is registered, the credit fee may be paid to either DEECA or directly to the credit owner.

Further information about the work some of our landowners are doing can be found on the Vegetation Link website.

What is the process after I accept the quote?

After you accept the quote and return the purchaser table, the following steps will be undertaken:

1. We will ensure the credits are still available and if necessary, submit a credit advice form for a pending trade to DEECA, to sanction the specified credits,
2. We will set up a credit trade agreement (CTA) and issue this for review and signing by the relevant parties involved. If credits are being purchased and allocated to a project simultaneously, we will include this within the documentation issued to you,
3. Once signed by all parties, we will submit the executed documentation to the relevant entity for invoicing. Invoices will be issued for the fees listed in the quotation. We will send you two invoices, one for the broker fee (payable within 14 days from the date of issue), invoiced by Vegetation Link and one for the credit fee (payable within 28 days from the date of issue), to be paid to DEECA or the Credit Owner. We recommend providing remittances for all your payments,
4. Once payments are received, the Native Vegetation Offset Register (NVOR) will issue the allocated credit extract/s, or purchased credit statement/s to Vegetation Link, which will then be sent to the appropriate recipients. A copy of the executed CTA will also be issued, as evidence that you have purchased the offset.

Generally, the process from quote acceptance to having evidence of purchased (and allocated) credits takes between 2-5 weeks from receipt of a completed Purchaser Details form. This is dependent on a range of factors including the type of landholder agreement or credit trade agreement, organisational workflows, and turnaround times for signing and payment of invoices. We work as quickly as possible to get your credits to you within this period.

We note that you **cannot** remove vegetation until you have been given permission by the Responsible Authority (usually the council that has issued a permit).

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What happens if I don't have a permit yet?

When people are buying credits before a permit is issued, the following three options are most common:

- You can purchase offsets before the planning permit is available, and then subsequently request that the offsets be allocated to the permit once it becomes available. This will incur an additional $250 fee for Vegetation Link to facilitate this process. When considering this option, it is important to realise that your estimated offset requirements may be different than the actual permit requirements, which may result in additional costs.
- You can wait for the planning permit to be approved first and then request a quote to meet the requirements of the permit. Should credits be available, you can then start the offset purchase process. We then use the planning permit number for allocating the credits. Allocating credits to the permit is evidence that the offsets have been purchased and that the condition on the permit has been met.
- You can request a quote to confirm availability and to get an idea of the cost of your requirements before you apply for a permit. Once a planning permit has been issued, you can then request an updated quote. It is at this point that you can then go through the offset purchase process.

We cannot guarantee credit availability until a) contracts are executed, or b) credits have been held via a pending trade lodged with DEECA Native Vegetation Offset Register.

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If I sign the CTA, does that mean I MUST pay for the credits?

Yes, you have entered into an agreement to pay for the offset credits therein and are required to pay for those credits. The credits must be paid for within 28 days of the date of the invoice. The broker fee (invoiced by Vegetation Link) must be paid within 14 days from the date of issue.

Can Vegetation Link hold the credits for me, as I want to pay later?

Vegetaion Link are unable to hold credits for later payment. Please also see 'What happens if I don't have a permit yet?' above.

For further information, see our website, the DEECA website or call us any time on 1300 834 546.

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[i] Fees are inclusive of the NVOR transfer and allocation fees when an allocation is done at the time of purchase.

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vegetationlink

27 May 2025

Our Ref: VLQ-11009-E2
Your Ref: West Mokoan 2 - Design Loss

Kristy Zhang
Lightsource BP
kristy.zhang@lightsourcebp.com

Dear Kristy,

Re: Quotation for the supply of native vegetation credits

Vegetation Link is an accredited offset broker with the Department of Energy, Environment and Climate Action (DEECA). Based on the information provided, I understand you require the following:

GHUs	Min. SBV	Vicinity	Large Trees
0.564	0.253	Goulburn Broken CMA or Benalla Rural City LGA	42

To meet your offset requirements, you can purchase native vegetation credits from a third party as per the trade[i] options quoted below. Credit trading turnaround time is approximately 2-5 weeks from acceptance of a valid quote. This quotation is valid for 14 days, subject to credit availability.

Option 1: Multiple CTA Pathway - offset sites located on Ngurrailum in the Greater Shepparton LGA (approx. 65 kms from the project site)	
Cost of 0.522 GHUs (invoiced by the Credit Owner)	$44,370.00
Cost of 0.042 GHUs + 42 LTs (invoiced by the Credit Owner)	$67,410.00
Cost of broker fee (invoiced by Vegetation Link)	$2,640.00
Subtotal cost ex. GST	$114,420.00
Total cost inc. GST	**$125,862.00**

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Option 2: Multiple CTA Pathway - offset sites located on Ngurraiillam in the Greater Shepparton LGA (approx. 65 kms from the project site)	
Cost of 0.522 GHUs (invoiced by DEECA)	$40,977.00
Cost of 0.042 GHUs + 42 LTs (invoiced by the Credit Owner)	$88,410.00
Cost of broker fee (invoiced by Vegetation Link)	$2,640.00
Subtotal cost ex. GST	$132,027.00
Total cost inc. GST	**$145,229.70**

Option 3: Multiple CTA Pathway - offset sites located on Ngurraiillam in the Greater Shepparton LGA (approx. 65-75 kms from the project site)	
Cost of 0.522 GHUs (invoiced by DEECA)	$44,839.80
Cost of 0.042 GHUs + 42 LTs (invoiced by the Credit Owner)	$88,410.00
Cost of broker fee (invoiced by Vegetation Link)	$2,640.00
Subtotal cost ex. GST	$135,889.80
Total cost inc. GST	**$149,478.78**

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Kind regards,

Shannen Hunter
Biodiversity Offset Broker

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