



Environment Report

Appendices

Inland Rail - Beveridge to Albury

Appendix F

EnSym Report

Scenario test – native vegetation removal

This report provides offset requirements for internal testing of different proposals to remove native vegetation. **This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria.** A report must be obtained from the Department of Environment, Land, Water and Planning (DELWP).

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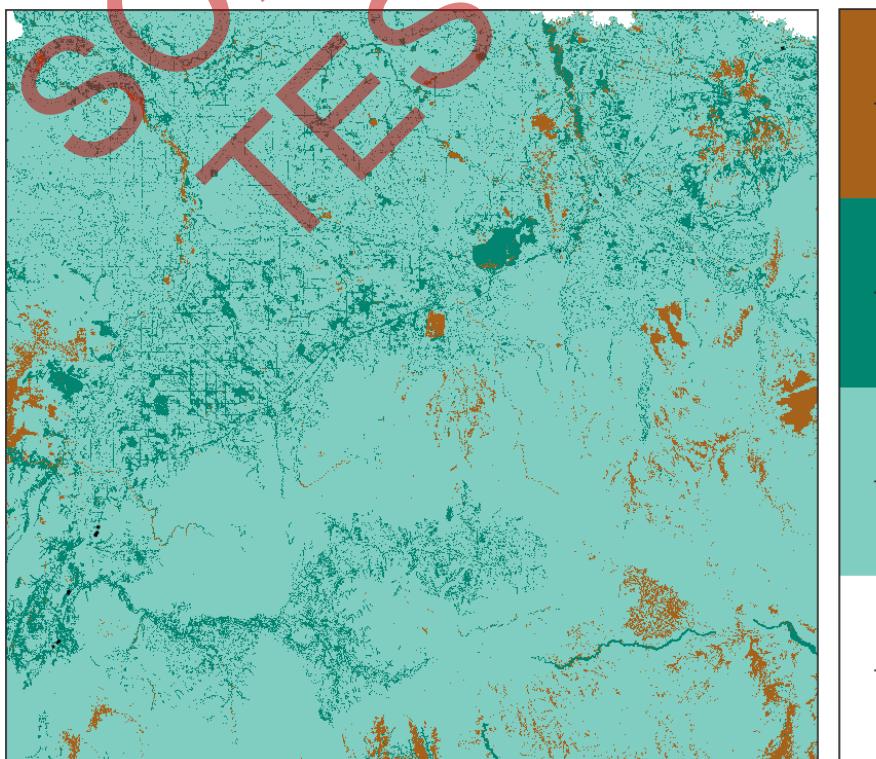
Report ID: Scenario Testing

Project ID	ENSYM_Enhancement_sites_SC6_16June2021
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Assessment pathway

Assessment pathway	Detailed Assessment Pathway
Extent including past and proposed	15.818 ha
Extent of past removal	0.000 ha
Extent of proposed removal	15.818 ha
No. Large trees proposed to be removed	65
Location category of proposed removal	<p>Location 2</p> <p>The native vegetation is in an area mapped as an endangered Ecological Vegetation Class (as per the statewide EVC map). Removal of less than 0.5 hectares of native vegetation in this location will not have a significant impact on any habitat for a rare or threatened species.</p>

1. Location map



Scenario test – native vegetation removal

Offset requirements if a permit is granted

Any approval granted will include a condition to obtain an offset that meets the following requirements:

General offset amount¹	9.083 general habitat units
Vicinity	Goulburn Broken, North East Catchment Management Authority (CMA) or Benalla Rural City, Mitchell Shire, Strathbogie Shire, Wangaratta Rural City, Wodonga City Council
Minimum strategic biodiversity value score ²	0.476
Large trees	65 large trees

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 mapped at the site.

Appendix 3 includes maps showing native vegetation to be removed and extracts of relevant species habitat importance maps

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¹ The general offset amount required is the sum of all general habitat units in Appendix 1.

² Minimum strategic biodiversity score is 80 per cent of the weighted average score across habitat zones where a general offset is required

Scenario test – native vegetation removal

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.

This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria.

If you wish to remove the mapped native vegetation you must submit the related shapefiles to the Department of Environment, Land, Water and Planning (DELWP) for processing, by email to ensymvrtool.support@delwp.vic.gov.au. DELWP will provide a *Native vegetation removal report* that is required to meet the permit application requirements in accordance with *Guidelines for the removal, destruction or lopping of native vegetation* (Guidelines).

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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 is above the species offset threshold a species offset is required. This test is done for all species mapped 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 is calculated by the following equation in accordance with the Guidelines:

$$\text{Species habitat units} = \text{extent} \times \text{condition} \times \text{species landscape factor} \times 2, \text{ where the species landscape factor} = 0.5 + (\text{habitat importance score}/2)$$

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 is calculated by the following equation in accordance with the Guidelines:

$$\text{General habitat units} = \text{extent} \times \text{condition} \times \text{general landscape factor} \times 1.5, \text{ where the general landscape factor} = 0.5 + (\text{strategic biodiversity value score}/2)$$

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 in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
119-HZ 119	Patch	cvu_0061	Vulnerable	0	no	0.400	0.006	0.006	0.580		0.003	General
187-HZ 175	Patch	vrv0068	Endangered	1	no	0.420	0.053	0.053	0.270		0.021	General
189-HZ 177	Patch	nis_0803	Endangered	0	no	0.330	0.031	0.031	0.434		0.011	General
190-HZ 177	Patch	nis_0803	Endangered	0	no	0.330	0.024	0.024	0.430		0.009	General
193-HZ 179	Patch	nis_0803	Endangered	0	no	0.280	0.376	0.376	0.240		0.098	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
242-HZ 236	Patch	vrv0055_61	Endangered	2	no	0.390	0.607	0.607	0.339		0.238	General
243-HZ 242	Patch	vrv0068	Endangered	1	no	0.560	0.041	0.041	0.270		0.022	General
244-HZ 242	Patch	vrv0068	Endangered	2	no	0.560	0.158	0.158	0.270		0.084	General
246-HZ 244	Patch	nis_0803	Endangered	0	no	0.130	0.019	0.019	0.770		0.003	General
247-HZ 255	Patch	cvu_0175_61	Endangered	0	no	0.320	0.038	0.038	0.100		0.010	General
248-HZ 256	Patch	cvu_0055	Endangered	0	no	0.180	0.013	0.013	0.100		0.002	General
249-HZ 257	Patch	cvu_0055	Endangered	0	no	0.240	0.000	0.000	0.100		0.000	General
250-HZ 257	Patch	cvu_0055	Endangered	0	no	0.240	0.000	0.000	0.100		0.000	General
251-HZ 258	Patch	cvu_0055	Endangered	0	no	0.180	0.008	0.008	0.100		0.001	General
252-HZ 259	Patch	cvu_0055	Endangered	0	no	0.110	0.007	0.007	0.100		0.001	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
253-HZ 259	Patch	cvu_0055	Endangered	0	no	0.110	0.002	0.002	0.100		0.000	General
255-HZ 260	Patch	vriv0055_61	Endangered	0	no	0.470	0.003	0.003	0.100		0.001	General
256-HZ 264	Patch	vriv0055_61	Endangered	0	no	0.210	0.026	0.026	0.510		0.006	General
257-HZ 265	Patch	vriv0175_61	Endangered	0	no	0.300	0.001	0.001	0.570		0.000	General
258-HZ 266	Patch	vriv0055_61	Endangered	0	no	0.230	0.036	0.036	0.570		0.010	General
260-HZ 270	Patch	cvu_0061	Vulnerable	2	no	0.620	0.456	0.456	0.648		0.349	General
261-HZ 271	Patch	cvu_0055	Endangered	0	no	0.450	0.507	0.507	0.572		0.269	General
262-HZ 272	Patch	cvu_0061	Vulnerable	1	no	0.670	0.064	0.064	0.610		0.052	General
263-HZ 272	Patch	cvu_0061	Vulnerable	1	no	0.670	0.402	0.402	0.566		0.316	General
264-HZ 273	Patch	cvu_0061	Vulnerable	2	no	0.460	0.172	0.172	0.610		0.096	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
265-HZ 274	Patch	cvu_0061	Vulnerable	13	no	0.590	2.460	2.460	0.708		1.859	General
266-HZ 275	Patch	cvu_0061	Vulnerable	0	no	0.590	0.343	0.343	0.620		0.246	General
267-HZ 276	Patch	cvu_0061	Vulnerable	0	no	0.620	0.137	0.137	0.760		0.112	General
268-HZ 281	Patch	cvu_0061	Vulnerable	0	no	0.270	0.004	0.004	0.600		0.001	General
269-HZ 282	Patch	cvu_0061	Vulnerable	0	no	0.580	0.001	0.001	0.520		0.000	General
270-HZ 282	Patch	cvu_0061	Vulnerable	0	no	0.580	0.000	0.000	0.520		0.000	General
271-HZ 282	Patch	cvu_0061	Vulnerable	0	no	0.580	0.068	0.068	0.541		0.045	General
272-HZ 283	Patch	cvu_0061	Vulnerable	0	no	0.270	0.043	0.043	0.580		0.014	General
273-HZ 284	Patch	cvu_0061	Vulnerable	1	no	0.350	0.067	0.067	0.600		0.028	General
274-HZ 285	Patch	cvu_0061	Vulnerable	1	no	0.580	0.314	0.314	0.604		0.219	General

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
275-HZ 289	Patch	cvu_0061	Vulnerable	3	no	0.630	0.352	0.352	0.555		0.258	General
276-HZ 290	Patch	cvu_0175_61	Endangered	0	no	0.640	0.129	0.129	0.549		0.096	General
277-HZ 291	Patch	cvu_0175_61	Endangered	0	no	0.640	0.000	0.000	0.530		0.000	General
278-HZ 291	Patch	cvu_0175_61	Endangered	1	no	0.640	0.466	0.466	0.549		0.346	General
279-HZ 292	Patch	cvu_0175_61	Endangered	0	no	0.170	0.049	0.049	0.519		0.010	General
280-HZ 293	Patch	cvu_0055	Endangered	1	no	0.600	0.222	0.222	0.577		0.157	General
281-HZ 294	Patch	cvu_0175_61	Endangered	2	no	0.720	0.383	0.383	0.557		0.322	General
282-HZ 296	Patch	cvu_0175_61	Endangered	0	no	0.380	0.061	0.061	0.490		0.026	General
283-HZ 297	Patch	cvu_0175_61	Endangered	0	no	0.170	0.048	0.048	0.530		0.009	General
284-HZ 298	Patch	cvu_0175_61	Endangered	0	no	0.490	0.373	0.373	0.523		0.209	General

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
285-HZ 299	Patch	cvu_0055	Endangered	5	no	0.370	0.293	0.293	0.640		0.133	General
286-HZ 300	Patch	cvu_0055	Endangered	1	no	0.330	0.206	0.206	0.640		0.083	General
288-HZ 301	Patch	cvu_0175_61	Endangered	0	no	0.260	0.085	0.085	0.771		0.029	General
289-HZ 302	Patch	cvu_0175_61	Endangered	0	no	0.340	0.004	0.004	0.890		0.002	General
290-HZ 302	Patch	cvu_0175_61	Endangered	2	no	0.340	0.221	0.221	0.809		0.102	General
291-HZ 305	Patch	nis_0803	Endangered	2	no	0.430	0.089	0.089	0.370		0.039	General
292-HZ 306	Patch	nis_0803	Endangered	0	no	0.130	0.080	0.080	0.560		0.012	General
293-HZ 307	Patch	nis_0803	Endangered	0	no	0.130	0.185	0.185	0.624		0.029	General
294-HZ 308	Patch	nis_0803	Endangered	0	no	0.090	0.008	0.008	0.770		0.001	General
295-HZ 309	Patch	nis_0803	Endangered	0	no	0.180	0.154	0.154	0.640		0.034	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
296-HZ 310	Patch	nis_0803	Endangered	0	no	0.220	0.133	0.133	0.770		0.039	General
297-HZ 319	Patch	cvu_0175_61	Endangered	1	no	0.340	0.069	0.069	0.680		0.030	General
299-HZ 322	Patch	cvu_0175_61	Endangered	3	no	0.720	0.335	0.335	0.526		0.276	General
300-HZ 325	Patch	cvu_0055	Endangered	2	no	0.710	0.207	0.207	0.709		0.188	General
301-HZ 326	Patch	vrv0055_61	Endangered	0	no	0.250	0.019	0.019	0.196		0.004	General
302-HZ 331	Patch	cvu_0055	Endangered	0	no	0.230	0.130	0.130	0.866		0.042	General
303-HZ 332	Patch	cvu_0055	Endangered	0	no	0.230	0.053	0.053	0.770		0.016	General
304-HZ 333	Patch	vrv0068	Endangered	0	no	0.150	0.004	0.004	0.270		0.001	General
305-HZ 334	Patch	cvu_0055	Endangered	0	no	0.600	0.033	0.033	0.574		0.023	General
306-HZ 335	Patch	cvu_0055	Endangered	1	no	0.670	0.062	0.062	0.567		0.049	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
307-HZ 336	Patch	cvu_0061	Vulnerable	0	no	0.570	0.199	0.199	0.604		0.136	General
308-HZ 337	Patch	cvu_0055	Endangered	0	no	0.430	0.160	0.160	0.610		0.083	General
309-HZ 338	Patch	cvu_0061	Vulnerable	1	no	0.630	0.073	0.073	0.590		0.055	General
310-HZ 339	Patch	cvu_0061	Vulnerable	0	no	0.440	0.928	0.928	0.644		0.503	General
311-HZ 341	Patch	cvu_0055	Endangered	0	no	0.310	0.000	0.000	0.770		0.000	General
312-HZ 341	Patch	cvu_0055	Endangered	0	no	0.310	0.188	0.188	0.726		0.076	General
315-HZ 343	Patch	cvu_0055	Endangered	1	no	0.390	0.445	0.445	0.833		0.238	General
316-HZ 345	Patch	vrv0068	Endangered	0	no	0.320	0.007	0.007	0.270		0.002	General
317-HZ 345	Patch	vrv0068	Endangered	0	no	0.320	0.002	0.002	0.270		0.001	General
318-HZ 346	Patch	cvu_0061	Vulnerable	0	no	0.510	0.944	0.944	0.720		0.621	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
319-HZ 347	Patch	cvu_0055	Endangered	0	no	0.230	0.019	0.019	0.640		0.006	General
320-HZ 348	Patch	cvu_0055	Endangered	0	no	0.220	0.000	0.000	0.640		0.000	General
321-HZ 349	Patch	cvu_0055	Endangered	0	no	0.230	0.004	0.004	0.640		0.001	General
322-HZ 350	Patch	cvu_0055	Endangered	0	no	0.180	0.027	0.027	0.640		0.006	General
324-HZ 362	Patch	vrv0055_61	Endangered	0	no	0.400	0.017	0.017	0.240		0.006	General
329-HZ 390	Patch	cvu_0055	Endangered	0	no	0.090	0.000	0.000	0.100		0.000	General
330-HZ 390	Patch	cvu_0055	Endangered	0	no	0.090	0.000	0.000	0.100		0.000	General
331-HZ 390	Patch	cvu_0055	Endangered	0	no	0.090	0.001	0.001	0.100		0.000	General
332-HZ 403	Patch	cvu_0047	Vulnerable	0	no	0.160	0.037	0.037	0.490		0.007	General
333-HZ 404	Patch	cvu_0047	Vulnerable	0	no	0.160	0.012	0.012	0.490		0.002	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
356-HZ 434	Patch	cvu_0047	Vulnerable	0	no	0.160	0.012	0.012	0.490		0.002	General
357-HZ 435	Patch	cvu_0821	Depleted	0	no	0.230	0.048	0.048	0.490		0.012	General
358-HZ 437	Patch	nis_0175_61	Endangered	0	no	0.350	0.050	0.050	0.170		0.016	General
359-HZ 438	Patch	cvu_0175_61	Endangered	1	no	0.490	0.266	0.266	0.526		0.149	General
360-HZ 441	Patch	nis_0175_61	Endangered	1	no	0.410	0.050	0.050	0.370		0.021	General
361-HZ 443	Patch	cvu_0055	Endangered	2	no	0.380	0.037	0.037	0.100		0.012	General
363-HZ 444	Patch	cvu_0061	Vulnerable	0	no	0.740	0.003	0.003	0.940		0.003	General
364-HZ 445	Patch	cvu_0061	Vulnerable	0	no	0.270	0.028	0.028	0.600		0.009	General
371-HZ 323	Patch	cvu_0061	Vulnerable	0	no	0.580	0.232	0.232	0.632		0.165	General
372-HZ 324	Patch	cvu_0061	Vulnerable	0	no	0.640	0.035	0.035	0.590		0.026	General
848-LST	Scattered Tree	nis_0175_61	Endangered	1	no	0.200	0.070	0.069	0.370		0.014	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
895-LST	Scattered Tree	cvu_0056	Endangered	1	no	0.200	0.070	0.065	0.640		0.016	General
901-LST	Scattered Tree	cvu_0056	Endangered	1	no	0.200	0.070	0.035	0.640		0.009	General
904-LST	Scattered Tree	cvu_0056	Endangered	1	no	0.200	0.070	0.039	0.640		0.010	General
915-LST	Scattered Tree	cvu_0175_61	Endangered	1	no	0.200	0.070	0.023	0.770		0.006	General
986-LST	Scattered Tree	vriv0068	Endangered	1	no	0.200	0.070	0.070	0.270		0.013	General
1207-LST	Scattered Tree	cvu_0056	Endangered	1	no	0.200	0.070	0.039	0.640		0.010	General
1210-LST	Scattered Tree	cvu_0056	Endangered	1	no	0.200	0.070	0.039	0.640		0.010	General
480-SST	Scattered Tree	cvu_0175_61	Endangered	0	no	0.200	0.031	0.027	0.520		0.006	General
481-SST	Scattered Tree	cvu_0175_61	Endangered	0	no	0.200	0.031	0.027	0.520		0.006	General
482-SST	Scattered Tree	cvu_0175_61	Endangered	0	no	0.200	0.031	0.031	0.520		0.007	General
483-SST	Scattered Tree	cvu_0175_61	Endangered	0	no	0.200	0.031	0.031	0.496		0.007	General
533-SST	Scattered Tree	vriv0055_61	Endangered	0	no	0.200	0.031	0.027	0.140		0.005	General
534-SST	Scattered Tree	vriv0055_61	Endangered	0	no	0.200	0.031	0.027	0.140		0.005	General
812-SST	Scattered Tree	nis_0175_61	Endangered	0	no	0.200	0.031	0.031	0.342		0.006	General
844-SST	Scattered Tree	nis_0175_61	Endangered	0	no	0.200	0.031	0.031	0.370		0.006	General

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
845-SST	Scattered Tree	nis_0175_61	Endangered	0	no	0.200	0.031	0.019	0.370		0.004	General
846-SST	Scattered Tree	nis_0175_61	Endangered	0	no	0.200	0.031	0.018	0.370		0.004	General
847-SST	Scattered Tree	nis_0175_61	Endangered	0	no	0.200	0.031	0.030	0.370		0.006	General
849-SST	Scattered Tree	nis_0175_61	Endangered	0	no	0.200	0.031	0.018	0.370		0.004	General
850-SST	Scattered Tree	nis_0175_61	Endangered	0	no	0.200	0.031	0.013	0.370		0.003	General
899-SST	Scattered Tree	cvu_0056	Endangered	0	no	0.200	0.031	0.029	0.640		0.007	General
902-SST	Scattered Tree	cvu_0056	Endangered	0	no	0.200	0.031	0.007	0.640		0.002	General
903-SST	Scattered Tree	cvu_0056	Endangered	0	no	0.200	0.031	0.009	0.640		0.002	General
905-SST	Scattered Tree	cvu_0056	Endangered	0	no	0.200	0.031	0.007	0.640		0.002	General
924-SST	Scattered Tree	cvu_0175_61	Endangered	0	no	0.200	0.031	0.021	0.770		0.006	General
972-SST	Scattered Tree	vrv0068	Endangered	0	no	0.200	0.031	0.018	0.270		0.003	General
973-SST	Scattered Tree	vrv0068	Endangered	0	no	0.200	0.031	0.018	0.270		0.003	General
982-SST	Scattered Tree	vrv0055_61	Endangered	0	no	0.200	0.031	0.031	0.100		0.005	General
984-SST	Scattered Tree	vrv0068	Endangered	0	no	0.200	0.031	0.031	0.270		0.006	General
985-SST	Scattered Tree	vrv0068	Endangered	0	no	0.200	0.031	0.029	0.270		0.006	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1091 -SST	Scattered Tree	vrviv0055_61	Endangered	0	no	0.200	0.031	0.031	0.240		0.006	General
1208 -SST	Scattered Tree	cvu_0056	Endangered	0	no	0.200	0.031	0.010	0.640		0.003	General
1209 -SST	Scattered Tree	cvu_0056	Endangered	0	no	0.200	0.031	0.000	0.640		0.000	General
1212 -SST	Scattered Tree	cvu_0056	Endangered	0	no	0.200	0.031	0.011	0.647		0.003	General
1213 -SST	Scattered Tree	cvu_0056	Endangered	0	no	0.200	0.031	0.017	0.641		0.004	General
1233 -SST	Scattered Tree	cvu_0055	Endangered	0	no	0.200	0.031	0.030	0.490		0.007	General
1234 -SST	Scattered Tree	cvu_0055	Endangered	0	no	0.200	0.031	0.030	0.490		0.007	General
925-SST	Scattered Tree	cvu_0175_61	Endangered	0	no	0.200	0.031	0.014	0.770		0.004	General

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

This table lists all rare or threatened species' habitats mapped at the site.

Species common name	Species scientific name	Species number	Conservation status	Group	Habitat impacted	% habitat value affected
Crimson Spider-orchid	<i>Caladenia concolor</i>	504347	Endangered	Dispersed	Habitat importance map	0.0024
Squirrel Glider	<i>Petaurus norfolcensis</i>	11137	Endangered	Dispersed	Habitat importance map	0.0021
Brown Toadlet	<i>Pseudophryne bibronii</i>	13117	Endangered	Dispersed	Habitat importance map	0.0011
Painted Honeyeater	<i>Grantiella picta</i>	10598	Vulnerable	Dispersed	Habitat importance map	0.0010
Euroa Guinea-flower	<i>Hibbertia humifusa subsp. <i>erigens</i></i>	505083	Vulnerable	Dispersed	Habitat importance map	0.0010
Barking Owl	<i>Ninox connivens connivens</i>	10246	Endangered	Dispersed	Habitat importance map	0.0009
Speckled Warbler	<i>Chthonicola sagittatus</i>	10504	Vulnerable	Dispersed	Habitat importance map	0.0008
Golden Sun Moth	<i>Synemon plana</i>	15021	Critically endangered	Dispersed	Habitat importance map	0.0005
Clover Glycine	<i>Glycine latrobeana</i>	501456	Vulnerable	Dispersed	Habitat importance map	0.0004
Brush-tailed Phascogale	<i>Phascogale tapoatafa</i>	11017	Vulnerable	Dispersed	Habitat importance map	0.0004
Murray River Turtle	<i>Emydura macquarii</i>	5135	Vulnerable	Dispersed	Habitat importance map	0.0004
Silver Perch	<i>Bidyanus bidyanus</i>	528544	Vulnerable	Dispersed	Habitat importance map	0.0003
Cottony Cassinia	<i>Cassinia ozothamnoides</i>	501560	Vulnerable	Dispersed	Habitat importance map	0.0003
Bush Stone-curlew	<i>Burhinus grallarius</i>	10174	Endangered	Dispersed	Habitat importance map	0.0003
Regent Honeyeater	<i>Anthochaera phrygia</i>	10603	Critically endangered	Dispersed	Habitat importance map	0.0003
Bent-leaf Wattle	<i>Acacia flexifolia</i>	500035	Rare	Dispersed	Habitat importance map	0.0003
Deane's Wattle	<i>Acacia deanei subsp. <i>paucijuga</i></i>	504201	Rare	Dispersed	Habitat importance map	0.0003
Chestnut-rumped Heathwren	<i>Calamanthus pyrrhopygios</i>	10498	Vulnerable	Dispersed	Habitat importance map	0.0002
Murray-Darling Rainbowfish	<i>Melanotaenia fluviatilis</i>	4774	Vulnerable	Dispersed	Habitat importance map	0.0002

Southern Pygmy Perch (Murray-Darling lineage)	<i>Nannoperca australis</i> (Murray-Darling lineage)	903231	Vulnerable	Dispersed	Habitat importance map	0.0002
Ausfeld's Wattle	<i>Acacia ausfeldii</i>	500013	Vulnerable	Dispersed	Habitat importance map	0.0002
Grey-crowned Babbler	<i>Pomatostomus temporalis</i> <i>temporalis</i>	10443	Endangered	Dispersed	Habitat importance map	0.0002
Yarra Gum	<i>Eucalyptus yarraensis</i>	501326	Rare	Dispersed	Habitat importance map	0.0002
Western Silver Wattle	<i>Acacia decora</i>	500027	Vulnerable	Dispersed	Habitat importance map	0.0002
Black Falcon	<i>Falco subniger</i>	10238	Vulnerable	Dispersed	Habitat importance map	0.0002
Late-flower Flax-lily	<i>Dianella tarda</i>	505085	Vulnerable	Dispersed	Habitat importance map	0.0002
Western Golden-tip	<i>Goodia medicaginea</i>	501518	Rare	Dispersed	Habitat importance map	0.0002
Grooling Grass Frog	<i>Litoria raniformis</i>	13207	Endangered	Dispersed	Habitat importance map	0.0002
Striped Legless Lizard	<i>Delma impar</i>	12159	Endangered	Dispersed	Habitat importance map	0.0002
Swift Parrot	<i>Lathamus discolor</i>	10309	Endangered	Dispersed	Habitat importance map	0.0002
Lewin's Rail	<i>Lewinia pectoralis</i> <i>pectoralis</i>	10045	Vulnerable	Dispersed	Habitat importance map	0.0002
Murray Cod	<i>Maccullochella peelii</i>	4871	Vulnerable	Dispersed	Habitat importance map	0.0002
Square-tailed Kite	<i>Lophoictinia isura</i>	10230	Vulnerable	Dispersed	Habitat importance map	0.0002
Broom Bitter-pea	<i>Daviesia genistifolia</i> s.s.	503813	Rare	Dispersed	Habitat importance map	0.0002
Purple Diuris	<i>Diuris punctata</i>	501084	Vulnerable	Dispersed	Habitat importance map	0.0002
Golden Cowslips	<i>Diuris behrii</i>	501061	Vulnerable	Dispersed	Habitat importance map	0.0002
Yarran Wattle	<i>Acacia omalophylla</i>	500069	Endangered	Dispersed	Habitat importance map	0.0002
Delicate Crane's-bill	<i>Geranium</i> sp. 6	505347	Vulnerable	Dispersed	Habitat importance map	0.0001
Grey Grass-tree	<i>Xanthorrhoea glauca</i> subsp. <i>angustifolia</i>	507229	Endangered	Dispersed	Habitat importance map	0.0001
Matted Flax-lily	<i>Dianella amoena</i>	505084	Endangered	Dispersed	Habitat importance map	0.0001
Rosemary Grevillea	<i>Grevillea rosmarinifolia</i> subsp. <i>rosmarinifolia</i>	504066	Rare	Dispersed	Habitat importance map	0.0001
Broad-shelled Turtle	<i>Chelodina expansa</i>	5133	Endangered	Dispersed	Habitat importance map	0.0001

Bearded Dragon	<i>Pogona barbata</i>	12177	Vulnerable	Dispersed	Habitat importance map	0.0001
Mugga	<i>Eucalyptus sideroxylon</i> subsp. <i>sideroxylon</i>	504493	Rare	Dispersed	Habitat importance map	0.0001
Velvet Daisy-bush	<i>Olearia pannosa</i> subsp. <i>cardiophylla</i>	502317	Vulnerable	Dispersed	Habitat importance map	0.0001
Trailing Hop-bush	<i>Dodonaea procumbens</i>	501090	Vulnerable	Dispersed	Habitat importance map	0.0001
Superb Parrot	<i>Polytelis swainsonii</i>	10277	Endangered	Dispersed	Habitat importance map	0.0001
Slender Club-sedge	<i>Isolepis congrua</i>	501773	Vulnerable	Dispersed	Habitat importance map	0.0001
Fuzzy New Holland Daisy	<i>Vittadinia cuneata</i> var. <i>morrisii</i>	505060	Rare	Dispersed	Habitat importance map	0.0001
Eastern Great Egret	<i>Ardea modesta</i>	10187	Vulnerable	Dispersed	Habitat importance map	0.0001
Grey-headed Flying-fox	<i>Pteropus poliocephalus</i>	11280	Vulnerable	Dispersed	Habitat importance map	0.0001
Floodplain Fireweed	<i>Senecio campylocarpus</i>	507136	Rare	Dispersed	Habitat importance map	0.0001
Veiled Fringe-sedge	<i>Fimbristylis velata</i>	501369	Rare	Dispersed	Habitat importance map	0.0001
Dwarf Brooklime	<i>Gratiola pumilo</i>	503753	Rare	Dispersed	Habitat importance map	0.0001
Pale Swamp Everlasting	<i>Coronidium gunnianum</i>	504655	Vulnerable	Dispersed	Habitat importance map	0.0001
Musk Duck	<i>Biziura lobata</i>	10217	Vulnerable	Dispersed	Habitat importance map	0.0001
Baillon's Crake	<i>Porzana pusilla palustris</i>	10050	Vulnerable	Dispersed	Habitat importance map	0.0001
Dark Wire-grass	<i>Aristida calycina</i> var. <i>calycina</i>	503630	Rare	Dispersed	Habitat importance map	0.0001
Hardhead	<i>Aythya australis</i>	10215	Vulnerable	Dispersed	Habitat importance map	0.0001
Northern Sandalwood	<i>Santalum lanceolatum</i>	503005	Endangered	Dispersed	Habitat importance map	0.0001
Australasian Shoveler	<i>Anas rhynchos</i>	10212	Vulnerable	Dispersed	Habitat importance map	0.0001
Tick Indigo	<i>Indigofera adesmiifolia</i>	503780	Vulnerable	Dispersed	Habitat importance map	0.0001
Brolga	<i>Grus rubicunda</i>	10177	Vulnerable	Dispersed	Habitat importance map	0.0001
Narrow Goodenia	<i>Goodenia macbarronii</i>	501513	Vulnerable	Dispersed	Habitat importance map	0.0001
Dookie Daisy	<i>Brachyscome gracilis</i>	505494	Vulnerable	Dispersed	Habitat importance map	0.0001
Button Rush	<i>Lipocarpha microcephala</i>	502020	Vulnerable	Dispersed	Habitat importance map	0.0001

Lanky Buttons	<i>Leptorhynchos elongatus</i>	501941	Endangered	Dispersed	Habitat importance map	0.0001
Hairy Tails	<i>Ptilotus erubescens</i>	502825	Vulnerable	Dispersed	Habitat importance map	0.0000
Smooth Darling-pea	<i>Swainsona galegifolia</i>	503992	Endangered	Dispersed	Habitat importance map	0.0000
Australian Painted Snipe	<i>Rostratula australis</i>	10170	Critically endangered	Dispersed	Habitat importance map	0.0000
Currawang	<i>Acacia doratoxylon</i>	500030	Rare	Dispersed	Habitat importance map	0.0000
Blue-billed Duck	<i>Oxyura australis</i>	10216	Endangered	Dispersed	Habitat importance map	0.0000
Branching Groundsel	<i>Senecio cunninghamii</i> var. <i>cunninghamii</i>	503104	Rare	Dispersed	Habitat importance map	0.0000
White-bellied Sea-Eagle	<i>Haliaeetus leucogaster</i>	10226	Vulnerable	Dispersed	Habitat importance map	0.0000
Small-leaf Bush-pea	<i>Pultenaea foliolosa</i>	502848	Rare	Dispersed	Habitat importance map	0.0000
Buloke	<i>Allocasuarina luehmannii</i>	500678	Endangered	Dispersed	Habitat importance map	0.0000
Umbrella Grass	<i>Digitaria divaricatissima</i> var. <i>divaricatissima</i>	501045	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey Falcon	<i>Falco hypoleucus</i>	10236	Endangered	Dispersed	Habitat importance map	0.0000
Australian Little Bittern	<i>Ixobrychus dubius</i>	10195	Endangered	Dispersed	Habitat importance map	0.0000
Powerful Owl	<i>Ninox strenua</i>	10248	Vulnerable	Dispersed	Habitat importance map	0.0000
Lace Monitor	<i>Varanus varius</i>	12283	Endangered	Dispersed	Habitat importance map	0.0000
White-throated Needletail	<i>Hirundapus caudacutus</i>	10334	Vulnerable	Dispersed	Habitat importance map	0.0000
Little Egret	<i>Egretta garzetta nigripes</i>	10185	Endangered	Dispersed	Habitat importance map	0.0000
Intermediate Egret	<i>Ardea intermedia</i>	10186	Endangered	Dispersed	Habitat importance map	0.0000
Rough-grain Love-grass	<i>Eragrostis trachycarpa</i>	501197	Rare	Dispersed	Habitat importance map	0.0000
Riverina Bitter-cress	<i>Cardamine moirensis</i>	505032	Rare	Dispersed	Habitat importance map	0.0000
Dense Mint-bush	<i>Prostanthera decussata</i>	502739	Rare	Dispersed	Habitat importance map	0.0000
Waterbush	<i>Myoporum montanum</i>	502240	Rare	Dispersed	Habitat importance map	0.0000
Common Bent-wing Bat (eastern ssp.)	<i>Miniopterus schreibersii oceanensis</i>	61342	Vulnerable	Dispersed	Habitat importance map	0.0000

Dwarf Cassinia	<i>Cassinia diminuta</i>	507664	Rare	Dispersed	Habitat importance map	0.0000
Small Milkwort	<i>Comesperma polygaloides</i>	500798	Vulnerable	Dispersed	Habitat importance map	0.0000
Common Pipewort	<i>Eriocaulon scariosum</i>	501218	Rare	Dispersed	Habitat importance map	0.0000
Grey Goshawk	<i>Accipiter novaehollandiae novaehollandiae</i>	10220	Vulnerable	Dispersed	Habitat importance map	0.0000
Kamarooka Mallee	<i>Eucalyptus froggattii</i>	501279	Rare	Dispersed	Habitat importance map	0.0000

Habitat group

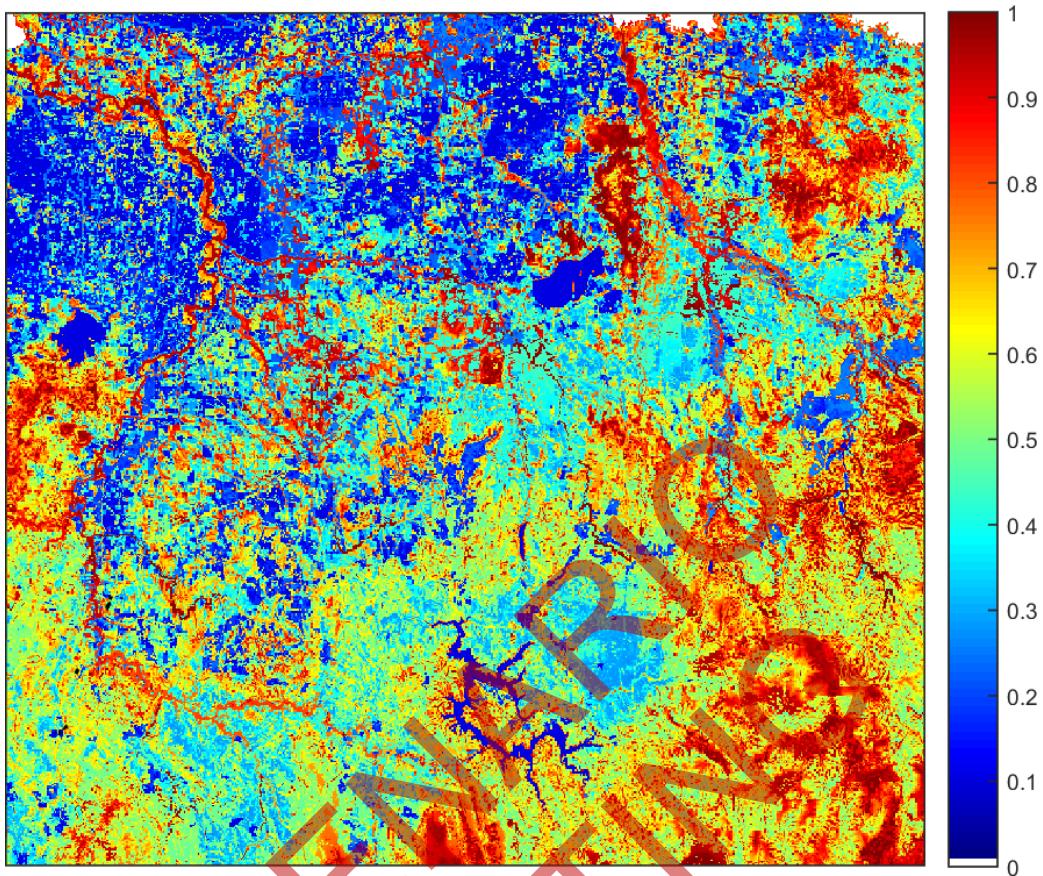
- Highly localised habitat means there is 2000 hectares or less mapped habitat for the species
- Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species

Habitat impacted

- Habitat importance maps are the maps defined in the Guidelines that include all the mapped habitat for a rare or threatened species
- Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance scores in dispersed species habitat maps and selected VBA records
- Selected VBA record is an area in Victoria that represents a large population, roosting or breeding site etc.

Appendix 3 – Images of mapped native vegetation

2. Strategic biodiversity values map



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