

Appendix B: Heritage searches

Search Results

No results found.

Enter at least one search criterion.

[Search Hints](#)

<input type="button" value="Search"/> <input type="button" value="Reset form"/>	
Place name	
<input type="text"/>	
Street name	
Bruxner Highway	
Town or suburb	State
<input type="text"/>	New South Wales <input type="button" value="v"/>
Country	
Australia	

Advanced search options

List	
All Lists <input type="button" value="v"/>	
<i>Different lists will provide different status and class options</i>	
Local Government Area	Place ID number
<input type="text"/>	<input type="text"/>
Legal status	Class
--All-- <input type="button" value="v"/>	--All-- <input type="button" value="v"/>
Keyword Search	
<input type="text"/>	
<input checked="" type="checkbox"/> Description	<input checked="" type="checkbox"/> Statement of Significance
<input checked="" type="checkbox"/> Place history	
Latitude/Longitude	
N	
Latitude 1	
Longitude 1	Longitude 2
<input type="text"/> S	<input type="text"/> E
W <input type="text"/> E	Latitude 2
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S	
<input type="radio"/> Wholly within region <input checked="" type="radio"/> Wholly or partially within region	
<i>Longitude coordinates should be entered as ddd.mm.ss</i>	
<i>Latitude coordinates should be entered as dd.mm.ss</i>	
Map Ref No	
<input type="text"/>	
<i>1:100,000 eg 2357</i>	
<i>1:250,000 eg SF-50-01</i>	

Search Hints

- Not all fields need to be filled in. The fewer you fill in the more results you will get.
- If you cannot find a place, check spelling and try alternative names. Reduce the number of words that you include and use fewer fields.

- The Local Government field used on its own will provide a comprehensive list of places in an area.

Report Produced: Wed Apr 6 11:08:27 2022



Kyogle Local Environmental Plan 2012 (2013 EPI 25)

Current version for 4 March 2022 to date (accessed 6 April 2022 at 11:10)

Schedule 5

Schedule 5 Environmental heritage

(Clause 5.10)

Part 1 Heritage items

Suburb	Item name	Address	Property description	Significance	Item no
Bonalbo	St Andrew's Presbyterian Church	10 Bonalbo Street	Lot 2, Section 6, DP 6063	Local	I368
Bonalbo	St Patrick's Catholic Church	23–25 Capen Street	Lot 1, DP 327600	Local	I004
Bonalbo	Bonalbo Cemetery	Clarence Way	Lot 7015, DP 1000923	Local	I371
Bonalbo	Bonalbo Showground	Clarence Way	Lots 47, 129, 130, 158 and 47, DP 751077	Local	I202
Bonalbo	Pine trees	Clarence Way	Road reserve	Local	I369
Bonalbo	Brown's Homestead (former)	13997 Clarence Way	Lot 61, DP 819068	Local	I013
Bonalbo	Bonalbo and District Community Hall	4 Koreelah Street	Lot 2, DP 835779	Local	I171
Bonalbo	Kirkpatrick's residence	4 Peacock Street	Lot 1, DP 328778	Local	I006
Bonalbo	Butter Factory (former)	1 Sandilands Street	Lots 220 and 221, DP 855348	Local	I002
Bonalbo	CBC Bank (former)	11–15 Sandilands Street	Lot 1, Section 8, DP 6063	Local	I009
Bonalbo	Hardware store	25 Sandilands Street	Lot 13, DP 319387	Local	I011
Bonalbo	Bank of NSW (former)	26–30 Sandilands Street	Lot 1, DP 17478	Local	I010
Bonalbo	Foodworks store	27 Sandilands Street	Lot 12, DP 319387	Local	I008
Bonalbo	Residence and shop	32 Sandilands Street	Lot 8, Section 3, DP 6063	Local	I007
Bonalbo	Blacksmith's shop (former)	39 Sandilands Street	Lot 1, DP 590423	Local	I012
Bonalbo	Patrick McNamee Anzac Memorial Park	Woodenbong Road	Lot 1, DP 835779	Local	I203
Bonalbo	Masonic Lodge (former)	73 Woodenbong Road	Lot 5, Section A, DP 10036	Local	I001
Cawongla	Homestead	1933 Cawongla Road	Lot E, DP 412306	Local	I022
Cawongla	Bunya pine trees	Kyogle Road		Local	I205

Cawongla	Teacher's residence (former)	5325 Kyogle Road	Lot 185, DP 728682	Local	I020
Cawongla	Cawongla store	5329 Kyogle Road	Lot 101, DP 875472	Local	I021
Cawongla	Cottage	5336 Kyogle Road	Lot 1, DP 378105	Local	I172
Cedar Point	Residence	12845 Summerland Way	Lot 222, DP 715611	Local	I058
Cougal	Gradys Creek Railway Bridge No 5	Gradys Creek (near the railway loop)		Local	I160
Cougal	Settlement (former)	Gradys Creek Road	Lot 16, DP 264312; Lot A, DP 388477; Lot 51, DP 620068	Local	I165
Cougal	Lions Road	Lions Road	Part of road reserve	Local	I162
Cougal	The Border railway loop	Richmond Gap, Lions Road	Part of Richmond Gap	State	I163
Doubtful Creek	Dyraaba Hall	1856 Sextonville Road	Lot 357, DP 755732	Local	I372
Doubtful Creek	St Faith's Anglican Church	1876 Sextonville Road	Lot 4, Section 1, DP 13825	Local	I153
Dyraaba	Dyraaba Station homestead complex	755 Dyraaba Road	Lot 9, DP 1152135	Local	I156
Etrrick	Residence	39 Pines Road	Lot 1, DP 610679	Local	I157
Geneva	Omagh residence	323 Omagh road	Lot 3, DP 881814	Local	I046
Geneva	Residence	29 Saville Street	Lot 2, DP 537073	Local	I048
Green Pigeon	Community centre	705 Green Pigeon Road	Lot 185, DP 755707	Local	I365
Kilgra	Wyangarie Homestead	124 Homestead Road	Lot 2, DP 701764	Local	I188
Kilgra	Bundock Plaque	Summerland Way and Homestead Road	Road reserve	Local	I169
Kyogle	Residence	6 Anderson Street	Lot 6, DP 23374	Local	I024
Kyogle	Methodist Parsonage (former)	20 Bloore Street	Lot 2, DP 1067865	Local	I028
Kyogle	Industrial building	33 Bloore Street	Lot 278, DP 4517; Lot 277, DP 783826	Local	I025
Kyogle	Kyogle Homestead remains	31 Bundock Lane	Lot 64, DP 12117	Local	I044
Kyogle	Anglican Manse (former)	13-15 Campbell Road	Lot 1, DP 223989	Local	I031
Kyogle	Norco Factory, group of buildings	1-3 Chauvel Street	Lots 1 and 2, DP 1027750; Lot 2, DP 1067947	Local	I061
Kyogle	Railway station, group of buildings	Etrrick Street	Lot 12, DP 1095432; Lot 1, DP 181905	Local	I159
Kyogle	Station master's residence	52 Etrrick Street	Lot 2, DP 811042	Local	I389
Kyogle	Residence	15 Fawcett Street	Lot 30, DP 12117	Local	I032
Kyogle	Kyogle Roxy Theatre (former)	7 Geneva Street	Lot 255, DP 4517	Local	I035
Kyogle	Ambulance station (former)	8 Geneva Street	Lot 248, DP 4517	Local	I401

Kyogle	Residence	23 Geneva Street	Lot 3, DP 207289	Local	I036
Kyogle	Residence	49 Geneva Street	Lot 172, DP 781940	Local	I037
Kyogle	Ganger Cottage (former)	George Street	Lot 115, DP 755734	Local	I038
Kyogle	Court House	Groom and Geneva Streets	Lot 1, DP 812650	Local	I033
Kyogle	Kyogle Primary School and listed plantings	Groom Street and Rous Road	Lot 129, DP 755734	Local	I034
Kyogle	St Andrew's Presbyterian Church	54-56 Groom Street	Lot 1, DP 328356	Local	I041
Kyogle	Presbyterian Church Hall	58 Groom Street	Lot 13, DP 9839	Local	I051
Kyogle	Police station	64-66 Groom Street	Lot 2, DP 812650	Local	I374
Kyogle	Residence	11 Highfield Road	Lot 1, DP 567936	Local	I043
Kyogle	Houses	52-54 Highfield Road	Lots 1 and 2, DP 35487	Local	I042
Kyogle	Presbyterian Manse	37-39 Mount Street	Lot 150, DP 755734	Local	I049
Kyogle	Water filtration plant	1 Plant Street	Lot 1, DP 1067865	Local	I027
Kyogle	Residence	17 Rous Street	Lot 3, DP 552506	Local	I039
Kyogle	Residence	19 Rous Street	Lot 157, DP 755734	Local	I040
Kyogle	Kyogle Cemetery	Runnymede Road	Lot 7001, DP 96777	Local	I053
Kyogle	Kyogle Council Chambers	1 Stratheden Street	Lots 282 and 283, DP 4517	Local	I050
Kyogle	Masonic Lodge	12 Stratheden Street	Lot 101, DP 781824	Local	I052
Kyogle	Clock tower	Summerland Way	Road reserve	Local	I403
Kyogle	Kyogle Croquet Club	Summerland Way	Lot 752, DP 1104367	Local	I174
Kyogle	Shops	37-39 Summerland Way	Lots 4 and 5, DP 260777	Local	I065
Kyogle	Shops	41-47 Summerland Way	Lots 6-9, DP 260777	Local	I066
Kyogle	Samios Building	55-57 Summerland Way	Lot B, DP 332801	Local	I067
Kyogle	Shops	59-61 Summerland Way	Lot 2, DP 721805	Local	I068
Kyogle	Bank of Australasia (former)	62-66 Summerland Way	Lot 11, DP 1064731	Local	I084
Kyogle	Exchange Hotel	63-65 Summerland Way	Lot 2, DP 327761	Local	I069
Kyogle	Commonwealth Bank (former)	68 Summerland Way	Lot 10, DP 871210	Local	I085
Kyogle	Shirley's Store (former)	69-71 Summerland Way	Lot 1, DP 783834	Local	I070
Kyogle	Shops	72-76 Summerland Way	Lot B, DP 180227	Local	I086
Kyogle	Shops	79 Summerland Way	Lot 22, DP 805397	Local	I071
Kyogle	Fairymount Cafe (former)	81-85 Summerland Way	Lot 12, DP 783829	Local	I072
Kyogle	Campbell's Building	82-88 Summerland Way	Lot 1, DP 301322; Lot 3, DP 783902	Local	I391
Kyogle	Birkbeck's Menswear store	87 Summerland Way	Lot 12, DP 783829	Local	I073
Kyogle	Shops	87 Summerland Way	Lots A and B, DP 389317	Local	I074

Kyogle	Shops	93–95 Summerland Way	Lot 1, DP 108238	Local	I075
Kyogle	Rural Bank (former)	94–100 Summerland Way	Lot 61, DP 783909	Local	I087
Kyogle	Commercial Hotel	97–101 Summerland Way	Lot 1, DP 108238	Local	I076
Kyogle	National Bank	102 Summerland Way	Lot 1, DP 191996	Local	I088
Kyogle	Shops	103–105 Summerland Way	Lot 1, DP 108444	Local	I398
Kyogle	Boden's Building (former)	107 Summerland Way	Lot B, DP 303016	Local	I077
Kyogle	Chemist shop	109 Summerland Way	Lot A, DP 302393	Local	I078
Kyogle	Commonwealth Bank	114–116 Summerland Way	Lot B, DP 303638	Local	I089
Kyogle	Junor's Store (former)	115 Summerland Way	Lot 1, DP 347576	Local	I079
Kyogle	Shops	118–120 Summerland Way	Lot 1, DP 657255	Local	I090
Kyogle	Shops	121–125 Summerland Way	Lot 1, DP 393777; Lots A and B, DP 394481	Local	I080
Kyogle	Kyogle Memorial Institute building and projectors	133 Summerland Way	Lot 19, DP 783828	Local	I081
Kyogle	Bank of NSW (former)	136 Summerland Way	Lot 2, DP 508115	Local	I092
Kyogle	Queensland National Bank (former)	138–140 Summerland Way	Lot A, DP 403007	Local	I093
Kyogle	Doctor's surgery (former)	144 Summerland Way	Lot 2, DP 735743	Local	I095
Kyogle	Post office	149 Summerland Way	Lot 1, DP 776479	Local	I082
Kyogle	Kyogle Citizens Band Hall	176 Summerland Way	Lot 1, DP 532420	Local	I054
Kyogle	Kyogle Private Hospital (former)	181 Summerland Way	Lot 33, DP 781774	Local	I056
Kyogle	Residence	187 Summerland Way	Lot 5, DP 954697	Local	I366
Kyogle	Residence	226 Summerland Way	Lot 1, DP 612336	Local	I060
Kyogle	Greenwood building and landscape	433 Summerland Way	Lot 11, DP 1035629	Local	I190
Kyogle	Kyogle Historical Museum	10 Wiangaree Street	Lot 1, DP 781677	Local	I062
Kyogle	Residence	1 Yongurra Road	Lot 2, DP 10780	Local	I047
Lillian Rock	Memorial gate	Caldera Lane	Road reserve	Local	I161
Mallanganee	Carey Johnson memorial trees	Bonalbo Street	Road reserve	Local	I178
Mallanganee	Memorial Hall	5–7 Bonalbo Street	Lot 52, DP 752395	Local	I101
Mallanganee	Hewetson home (former)	7095 Bruxner Highway	Lot 2, DP 17479	Local	I099
Mallanganee	Hewetson home (former)	7103 Bruxner Highway	Lot 13, DP 838859	Local	I098
Mallanganee	Hewetson home (former)	7105 Bruxner Highway	Lot 4, DP 17479	Local	I100
Mallanganee	Pic shop	4 Pine Street	Lot A, DP 399099	Local	I102

Mallanganee	Service station complex	18–22 Sandilands Street	Lot 1, DP 204959; Lot 21, DP 711890; Lot 4, Section 1, DP 758639	Local	I106
Mallanganee	Cafe (former)	44 Sandilands Street	Lot A, DP 392198	Local	I107
Mallanganee	Memorial Park gateway	53 Sandilands Street	Lot A, DP 367971	Local	I105
Mallanganee	General store and post office	60–62 Sandilands Street	Lot 1, Section 4, DP 123614; Lot 111, DP 47440	Local	I109
Mallanganee	Butcher's shop (former)	63 Sandilands Street	Lot 3, DP 6547	Local	I381
Mallanganee	Bank (former)	64 Sandilands Street	Lot 10, DP 304994	Local	I108
Mallanganee	Barber shop (former)	72 Sandilands Street	Lot 12, DP 312249	Local	I104
Mallanganee	Residence	79 Sandilands Street	Lot 2, Section 1, DP 17532	Local	I103
Mallanganee	Mallanganee School and school residence	38–52 Tooloom Street	Lot 70, DP 752395	Local	I111
Mallanganee	Our Lady of Perpetual Succour Catholic Church	57 Tooloom Street	Lot 2, Section 3, DP 758639	Local	I114
Mallanganee	Convent (former)	59 Tooloom Street	Lot 3, Section 3, DP 758639	Local	I113
Mallanganee	Catholic School (former)	62 Tooloom Street	Lot 100, DP 752395	Local	I112
Mallanganee	Residence	2 Yabbra Street	Lot 6, Section 2, DP 758639	Local	I115
Mallanganee South	Finger Board building	Old Lawrence Road		Local	I378
Mallanganee South	Survey tree	969 Old Lawrence Road		Local	I380
Mummulgum	Catholic Church (former)	8 Bingebeebebra Road	Lot 97, DP 755723	Local	I117
Mummulgum	St Mary's Anglican Church	5825 Bruxner Highway	Lot 101, DP 755723	Local	I116
New Park	Alcorn Park	Summerland Way	Lot 755, DP 1104367	Local	I173
New Park	Alcorn Park band rotunda	Summerland Way	Lot 755, DP 1104367	Local	I023
New Park	Showground and grandstand	43 Summerland Way	Lot 118, DP 44795	Local	I057
Old Bonalbo	Pioneer Park	Clarence Way	Road reserve	Local	I405
Old Bonalbo	Store (former)	15242 Clarence Way	Lot A, DP 365820	Local	I015
Old Bonalbo	Post office and general store	Duck Creek Road	Lot 2, DP 167973	Local	I019
Old Bonalbo	Old Bonalbo Community Hall	8 Duck Creek Road	Lot 3, DP 166762	Local	I014
Old Bonalbo	Residence	13 Duck Creek Road	Lot 1, DP 17551	Local	I016
Old Bonalbo	Bean Creek Falls	Falls Road	Lot 7012, DP 1108188; Lots 2 and 3, DP 543736	Local	I399
Old Bonalbo	MJI Motor Cycle Garage	2 Prince Street	Lot 1, DP 613972	Local	I017
Old Bonalbo	Old Bonalbo Cemetery	Remembrance Drive	Lot 7014, DP 96676	Local	I375
Old Grevillia	Moore Park nature reserve	Findon Creek Road	Lot 1, DP 180655	Local	I193

Richmond Gap	Border tick gate	Lions Road	Road reserve	Local	I166
Sandilands	Mallanganee Rodeo Ground	Bruxner Highway	Lot 7002, DP 96390	Local	I182
Sandilands	Sculpture garden	Bruxner Highway	Reserve no 21418	Local	I184
Sandilands	Sandilands Station complex	7689 Bruxner Highway	Lot 1, DP 123612	Local	I183
Tabulam	Chauvel Park (formerly Tabulam Station)	Clarence Street	Lot 5, DP 833655	Local	I186
Tabulam	St John's Church	26 Clarence Street	Lot 5, Section 1, DP 11813	Local	I382
Tabulam	Hotel	34-42 Clarence Street	Lot 1, Section 1, DP 11813	Local	I383
Tabulam	Post office	12-14 Court Street	Lot 214, DP 39896	Local	I118
Tabulam	Police station	1-3 Creek Street	Lot 7002, DP 1068673	Local	I373
Tabulam	Tabulam Racecourse	Racecourse Road	Lot 34, DP 752397	Local	I187
Tabulam	Tabulam Cemetery	219 Racecourse Road	Lot 7017, DP 1066120	Local	I376
The Risk	Bottlebrush	Gradys Creek Road	Road reserve	Local	I192
The Risk	The Risk Hall	75 Gradys Creek Road	Lot 1, DP 322341	Local	I362
The Risk	School and teacher's residence	122 Gradys Creek Road	Lot 84, DP 755719	Local	I363
The Risk	Water facilities	Risk Road	Lot 2, DP 859278	Local	I409
Unumgar	Dairy Flat landscape	Summerland Way	Lot 7013, DP 105600; Lot 7004, DP 1057677; Lot 7300, DP 1129206; Lot 46, DP 755750	Local	I196
Unumgar	Unumgar Homestead landscape	4135 Summerland Way	Part of Lot 1, DP 531985	Local	I194
Urbenville	Showground and memorial gates	Clarence Way	Lot 24, DP 751069	Local	I200
Wadeville	Daystar Steiner School (former)	4501-4504 Kyogle Road	Lot 23, DP 792111	Local	I152
Wadeville	Hanging Rock Hall	77 Williams Road	Lot 188, DP 728691	Local	I404
Wiangaree	Wiangaree Community Hall	1393 Summerland Way	Lot 8, Section 7, DP 759088	Local	I150
Wiangaree	St John's Anglican Church	Worendo Street	Lot 1, Section 10, DP 759088	Local	I151
Wiangaree	General store	60 Worendo Street	Lot 9, Section 8, DP 759088	Local	I149
Woodenbong	Residence	8 Dalmorton Street	Lot A, DP 390596	Local	I387
Woodenbong	Post office (former)	14 Dalmorton Street	Lot 2, DP 629397	Local	I121
Woodenbong	Hardware and electrical store	17 Dalmorton Street	Lot 11, DP 748304	Local	I134
Woodenbong	Woodenbong Cemetery	95 Hill View Street	Lot 7004, DP 1055062	Local	I199
Woodenbong	Showground	1 Lindsay Creek Road	Lot 7005, DP 1055056	Local	I197

Woodenbong	St Margaret's Anglican Church	20 Lindsay Street	Lot 91, DP 733874	Local	I119
Woodenbong	Residence	27 Lindsay Street	Lot 3, Section 4, DP 759111	Local	I385
Woodenbong	Masonic Lodge (former)	41 Lindsay street	Lot 4, Section 5, DP 759111	Local	I384
Woodenbong	Woodenbong School memorial gates and classroom	42 Lindsay Street	Lots 1 and 2, Section 2, DP 759111	Local	I146
Woodenbong	War Memorial Hall	49 Lindsay Street	Lot 15, Section 5, DP 759111	Local	I120
Woodenbong	Sacred Heart Catholic Church	11-13 MacPherson Street	Lot 9, Section 9, DP 759111	Local	I135
Woodenbong	Sketchley's Store	21 MacPherson Street	Lot 5, Section 9, DP 759111	Local	I137
Woodenbong	Store (former)	24 MacPherson Street	Lot 9, Section 4, DP 759111	Local	I129
Woodenbong	Bakery (former)	25 MacPherson Street	Lot 3, Section 9, DP 759111	Local	I122
Woodenbong	Residence	26 MacPherson Street	Lot 10, Section 4, DP 759111	Local	I133
Woodenbong	BJs Grocery Store	27 MacPherson Street	Lot 10, DP 748304	Local	I123
Woodenbong	Residence	30 MacPherson Street	Lot 12, Section 4, DP 759111	Local	I132
Woodenbong	National Australia Bank building	34 MacPherson Street	Lot 14, Section 4, DP 759111	Local	I131
Woodenbong	CWA Rooms	36 MacPherson Street	Lot 15, DP 662572	Local	I125
Woodenbong	M & L Quality Meats Store	37 MacPherson Street	Lot 4, Section 8, DP 759111	Local	I124
Woodenbong	Chemist shop	39 MacPherson Street	Lot 3, Section 8, DP 759111	Local	I128
Woodenbong	Offices (former)	42 MacPherson Street	Lot 7, Section 5, DP 759111	Local	I126
Woodenbong	Woodenbong Hotel	43 MacPherson Street	Lot 1, Section 8, DP 759111	Local	I145
Woodenbong	Residence	46 MacPherson Street	Lot 9, Section 5, DP 759111	Local	I140
Woodenbong	Residence	34 Richmond Street	Lot 15, Section 8, DP 759111	Local	I139
Woodenbong	Residence	46 Roseberry Street	Lot 109, DP 751059	Local	I142
Woodenbong	Recreation ground	Unumgar Street	Lot 7008, DP 1075469	Local	I198
Woodenbong	Police Station	1-5 Unumgar Street	Lot 7001, DP 92987	Local	I147
Woodenbong	Woodenbong Public Hall	21-23 Unumgar Street	Lot 14, Section 5, DP 759111	Local	I148
Woodenbong	Carole's Arts and Craft shop	30 Unumgar Street	Lot 3, Section 6, DP 759111	Local	I144

Woodenbong Service station (former) 34 Unumgar Street Lot 51, DP 819346 Local I143

Part 2 Heritage conservation areas

Name of area	Identification on Heritage Map	Significance
Grevillia Village Conservation Area	Shown by red hatching and marked "C168"	Local
Hewetson Residential Group	Lots 2 and 4, DP 17479; Lot 13, DP 838859; Shown by red hatching and marked "C180"	Local
Kyogle Town Gateway Conservation Area	Shown by red hatching and marked "C406"	Local
Kyogle Town Heritage Conservation Area	Shown by red hatching and marked "C396"	Local
Mallanganee Village Conservation Area	Shown by red hatching and marked "C097"	Local

Part 3 Archaeological sites

Suburb	Item name	Address	Property description	Significance	Item no
Dyraaba	Dyraaba Station Cemetery	755 Dyraaba Road	Lot 2, DP 755704	Local	A392
Green Pigeon	Sawmilling complex (former)	1047–1055 and adjoining reserves, Green Pigeon Road	Lots 141, 143 and 144, DP 257506; Lot 5, DP 625056	Local	A155
Kilgra	Wiangaree Bundock Family Cemetery	Apple Tree Stud, Summerland Way	Lot 2, DP 943796	Local	A189
Old Bonalbo	Jane Robertson's grave	15249–15297 Clarence Way	Lot 7, DP 751077	Local	A201
Sandilands	Sandilands Cemeteries	7689 Bruxner Highway	Lot 1, DP 123612	Local	A367
Tabulam	Tabulam Old Cemetery	Charles Street	Lot 7003, DP 1068672	Local	A377
Tooloom	Tooloom Goldfields	See Heritage Map	Lots 1, 2, 25, 26 and 37, DP 751080; Lots 7001–7004, DP 1068822; Lots 6, 10, 14–19, 20 and 22, DP 751075; Lot 2, DP 859360; Lot 120, DP 875319; Lot 2, DP 123063; Lot 11, DP 867400; Lot 24, DP 44725; Lots 7300 and 7301, DP 1149153; and 2 unidentified (LPMA)	Local	A164
Tooloom	Queen's Arms Hotel site	Paddys Flat Road	Lot 2, DP 751080	Local	A361
Tooloom	Tooloom village site	Off Paddys Flat Road	Lots 1, 2, 25 and 26, DP 751080; Lots 7002–7004, DP 1068822; Lot 2, DP 859360	Local	A185
Unumgar	Unumgar Hill Family Cemetery	4135 Summerland Way	Part of Lot 1, DP 531985	Local	A195

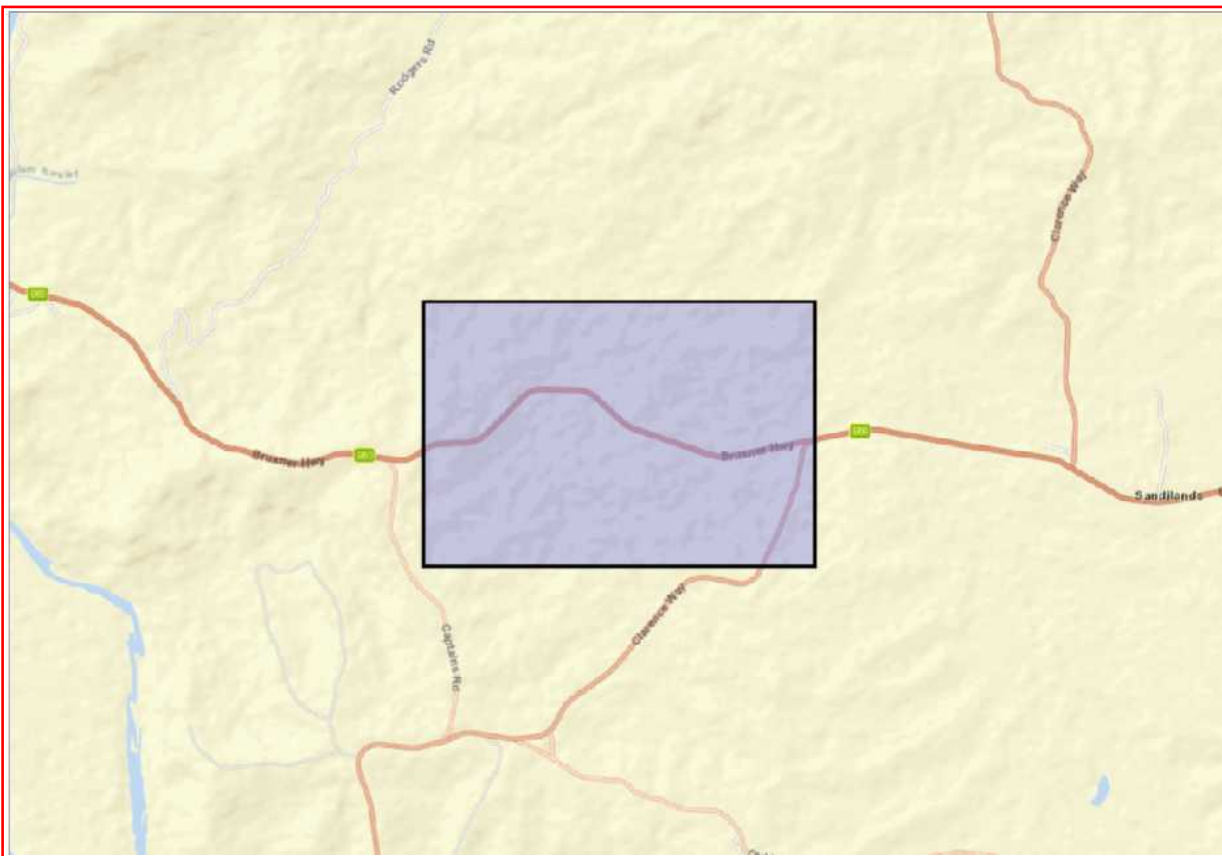
Ian Colvin
261 Repentance Creek Rd
REPENTANCE CREEK New South Wales 2480
Attention: Ian Colvin
Email: ian@reconeco.com.au

Date: 16 August 2023

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -28.9082, 152.6033 - Lat, Long To : -28.8895, 152.6342, conducted by Ian Colvin on 16 August 2023.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the [NSW Government Gazette \(https://www.legislation.nsw.gov.au/gazette\)](https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not to be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

Appendix C: PACHI



Transport
for NSW

08/04/2022

Ross Gersekowski
Project / Contract Manager
Regional and Outer Metropolitan
Transport for NSW

Dear Ross,

HW16 Bruxner Highway Tara to Captains Creek S5470-5480 - Stage 1 of the *Procedure for Aboriginal cultural heritage consultation and investigation* (the procedure).

The project, as indicated in the Procedure for Aboriginal cultural heritage consultation was assessed as being unlikely to have a potential impact on Aboriginal cultural heritage.

Please contact, your local Aboriginal Cultural Heritage Officer, and your regional environmental staff to reassess any potential impacts on Aboriginal cultural heritage if your project changes.

TfNSW staff and/or contractors should be aware of the potential of Aboriginal objects (including skeletal remains) being discovered during the project, if this occurs all works in the vicinity of the find must cease. Follow the steps outlined in the Roads and Maritime Services' *Unexpected Archaeological Finds Procedure*.

For further assistance in this matter do not hesitate to contact me.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Tabatha'.

Tabatha Cann
Aboriginal Cultural Heritage Officer
Transport NSW

08/04/2022

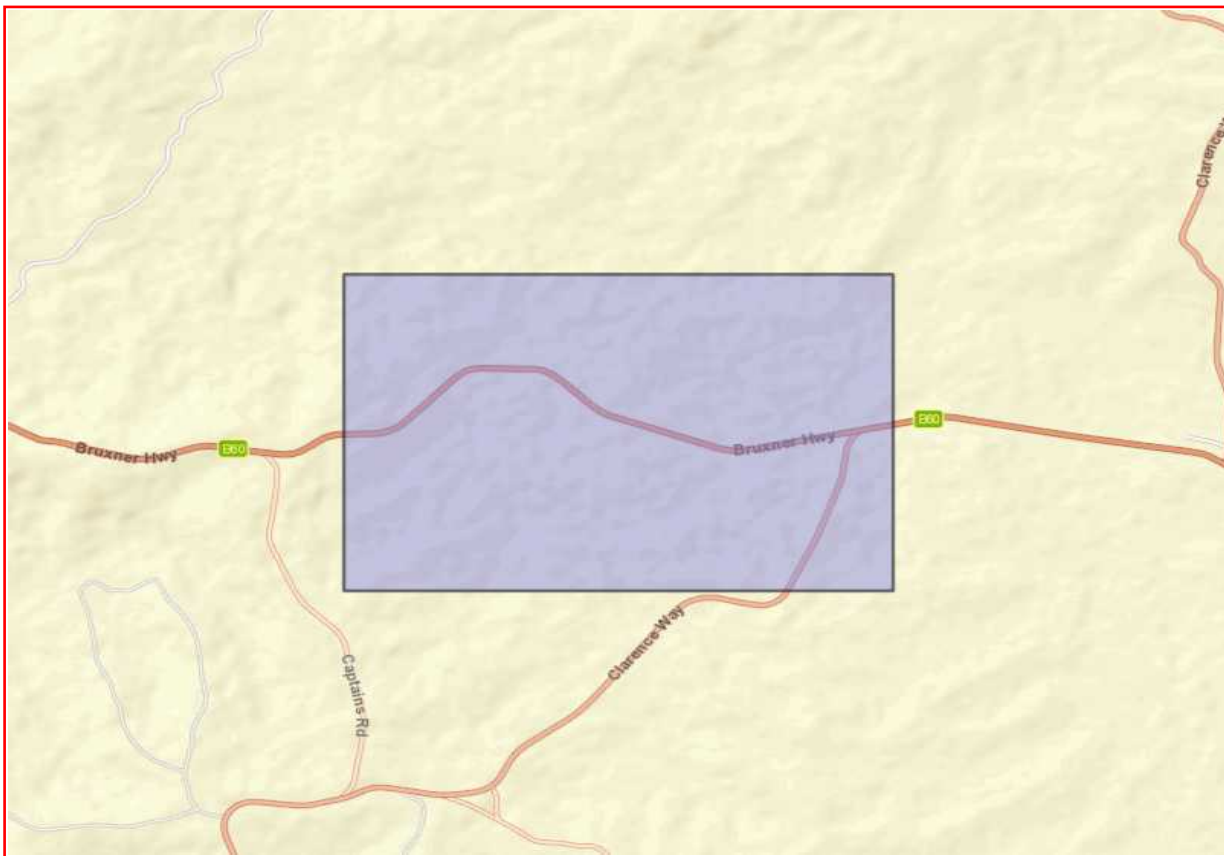
Taylor Craig
159 Lindendale Road
Wollongbar New South Wales 2477
Attention: Taylor Craig
Email: taylor@reconeco.com.au

Date: 06 April 2022

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -28.9086, 152.6049 - Lat, Long To : -28.8903, 152.6358, conducted by Taylor Craig on 06 April 2022.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the [NSW Government Gazette \(https://www.legislation.nsw.gov.au/gazette\)](https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not to be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

Search Results

No results found.

Enter at least one search criterion.

[Search Hints](#)

<input type="button" value="Search"/> <input type="button" value="Reset form"/>	
Place name	
<input type="text"/>	
Street name	
Bruxner Highway	
Town or suburb	State
<input type="text"/>	New South Wales <input type="button" value="v"/>
Country	
Australia	

Advanced search options

List	
All Lists <input type="button" value="v"/>	
<i>Different lists will provide different status and class options</i>	
Local Government Area	Place ID number
<input type="text"/>	<input type="text"/>
Legal status	Class
--All-- <input type="button" value="v"/>	--All-- <input type="button" value="v"/>
Keyword Search	
<input type="text"/>	
<input checked="" type="checkbox"/> Description	<input checked="" type="checkbox"/> Statement of Significance
<input checked="" type="checkbox"/> Place history	
Latitude/Longitude	
N	
Latitude 1	
Longitude 1	Longitude 2
<input type="text"/> S	<input type="text"/>
W <input type="text"/> E	Latitude 2
	<input type="text"/> E E
	<input type="text"/> S
S	
<input type="radio"/> Wholly within region <input checked="" type="radio"/> Wholly or partially within region	
<i>Longitude coordinates should be entered as ddd.mm.ss</i>	
<i>Latitude coordinates should be entered as dd.mm.ss</i>	
Map Ref No	
<input type="text"/>	
<i>1:100,000 eg 2357</i>	
<i>1:250,000 eg SF-50-01</i>	

Search Hints

- Not all fields need to be filled in. The fewer you fill in the more results you will get.
- If you cannot find a place, check spelling and try alternative names. Reduce the number of words that you include and use fewer fields.

- The Local Government field used on its own will provide a comprehensive list of places in an area.

Report Produced: Wed Apr 6 11:08:27 2022





Search National Native Title Register

The National Native Title Register (NNTR) is a register established under s. 192 of the *Native Title Act 1993* (Cth).

The NNTR contains determinations of native title made by:

- the High Court of Australia
- the Federal Court of Australia
- or a recognised body such as South Australia's Supreme Court and Environment Resources and Development Court.

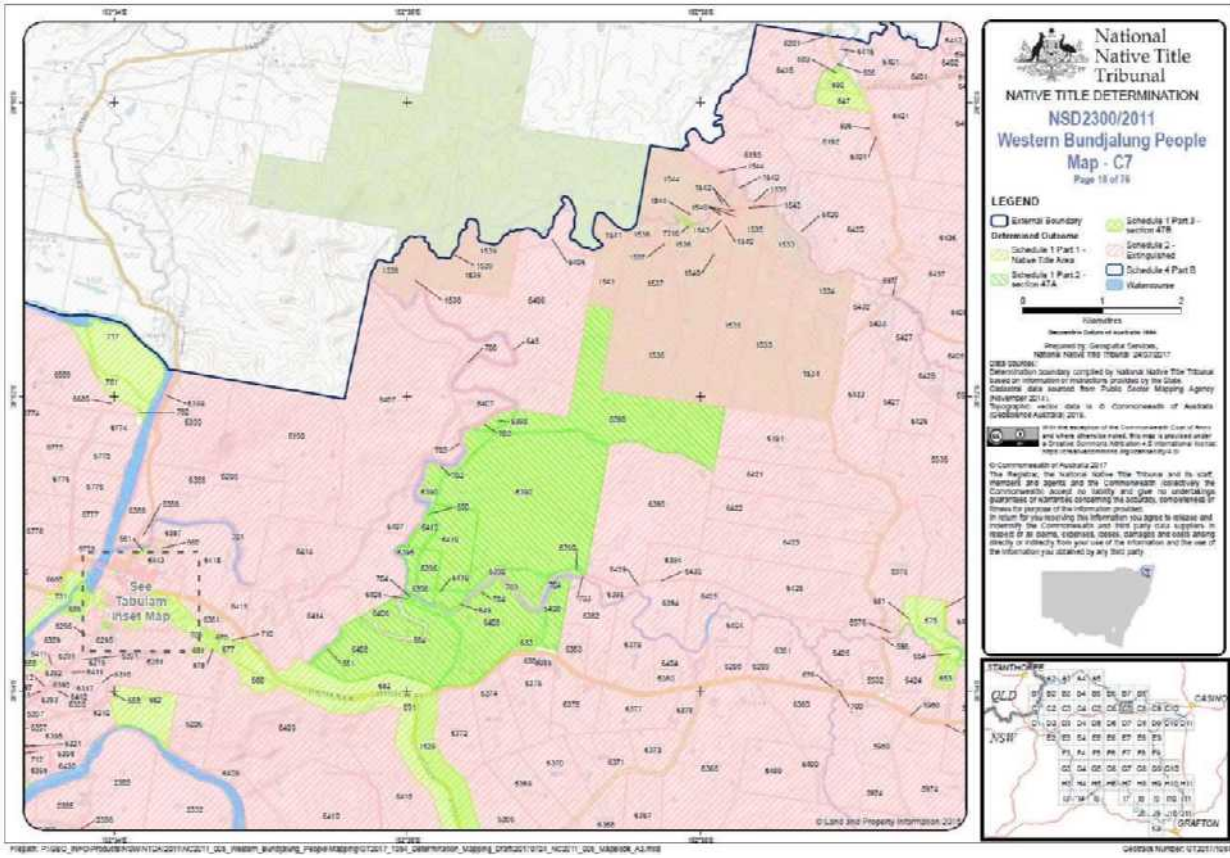
Further [information about the NNTR](#) is available.

Tribunal file no.	<input type="text"/>	Federal Court file no.	<input type="text"/>	Short name	<input type="text"/>
Case name	<input type="text"/>	State or Territory	New South Wales	Registered Native Title Body Corporate*	<input type="text"/>
Representative A/TSI body area	<input type="text"/>	Local government area	Kyogle Council	Determination type	<input type="text"/>
Legal process	ALL	Determination outcome	ALL	Determination date between	<input type="text"/>
and		Sort by	Determination date	<input type="button" value="Search"/>	

*Please note: current contact details for the Registered Native Title Body Corporate are available from the Office of the Registrar of Indigenous Corporations www.oric.gov.au

Your search returned **2** matches.

Short name	Case name	Legal process	Determination date	Outcome
Western Bundjalung People Part A	Western Bundjalung People v Attorney General of New South Wales	Consent	29/08/2017	Native title exists in parts of the determination area
The Githabul People	Trevor Close on behalf of the Githabul People v Minister for Lands	Consent	29/11/2007	Native title exists in the entire determination area



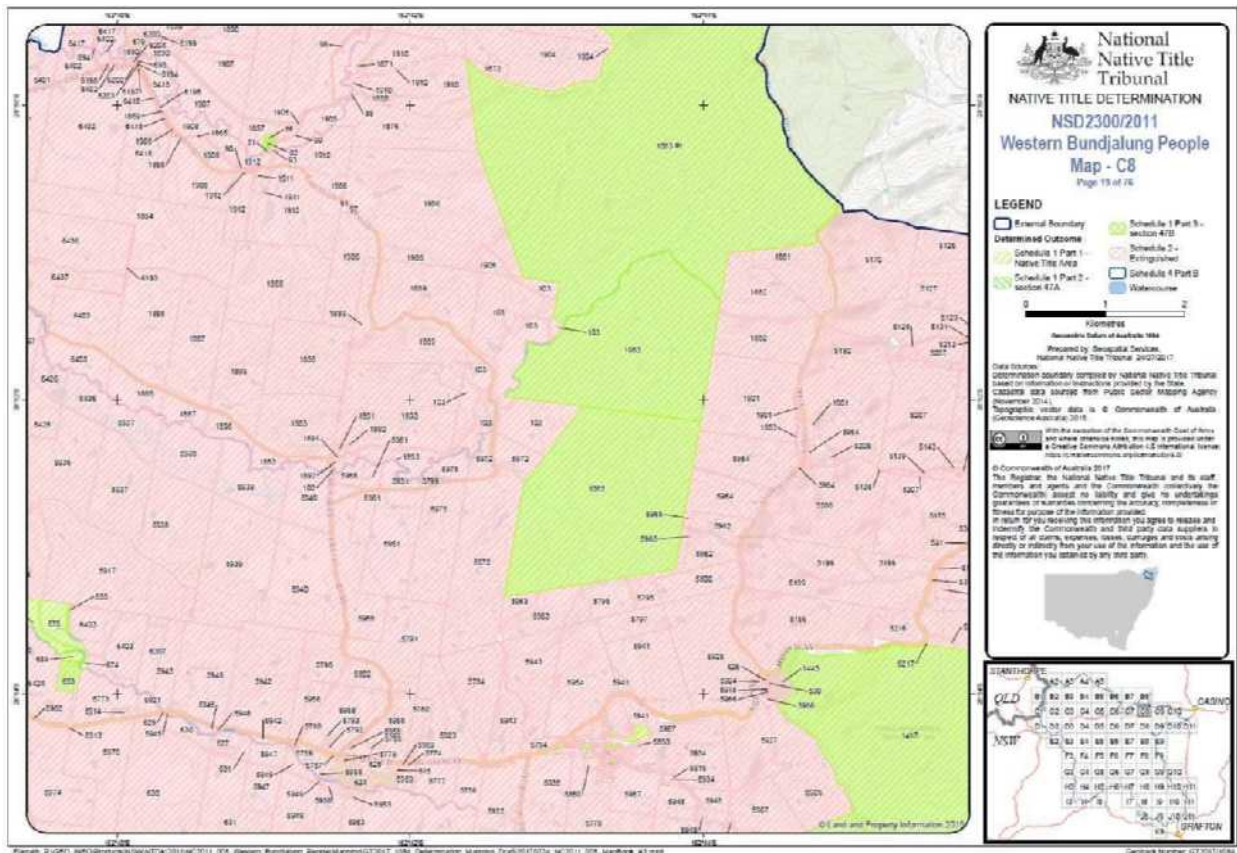


Figure 2: NSD2300/2011 Map - C8: Western Bundjalung People Mapping (2017) - Native Title Determination Mapping (2017) (NSD2300/2011 Map - C8) (A4)



Register of Indigenous Land Use Agreements Details

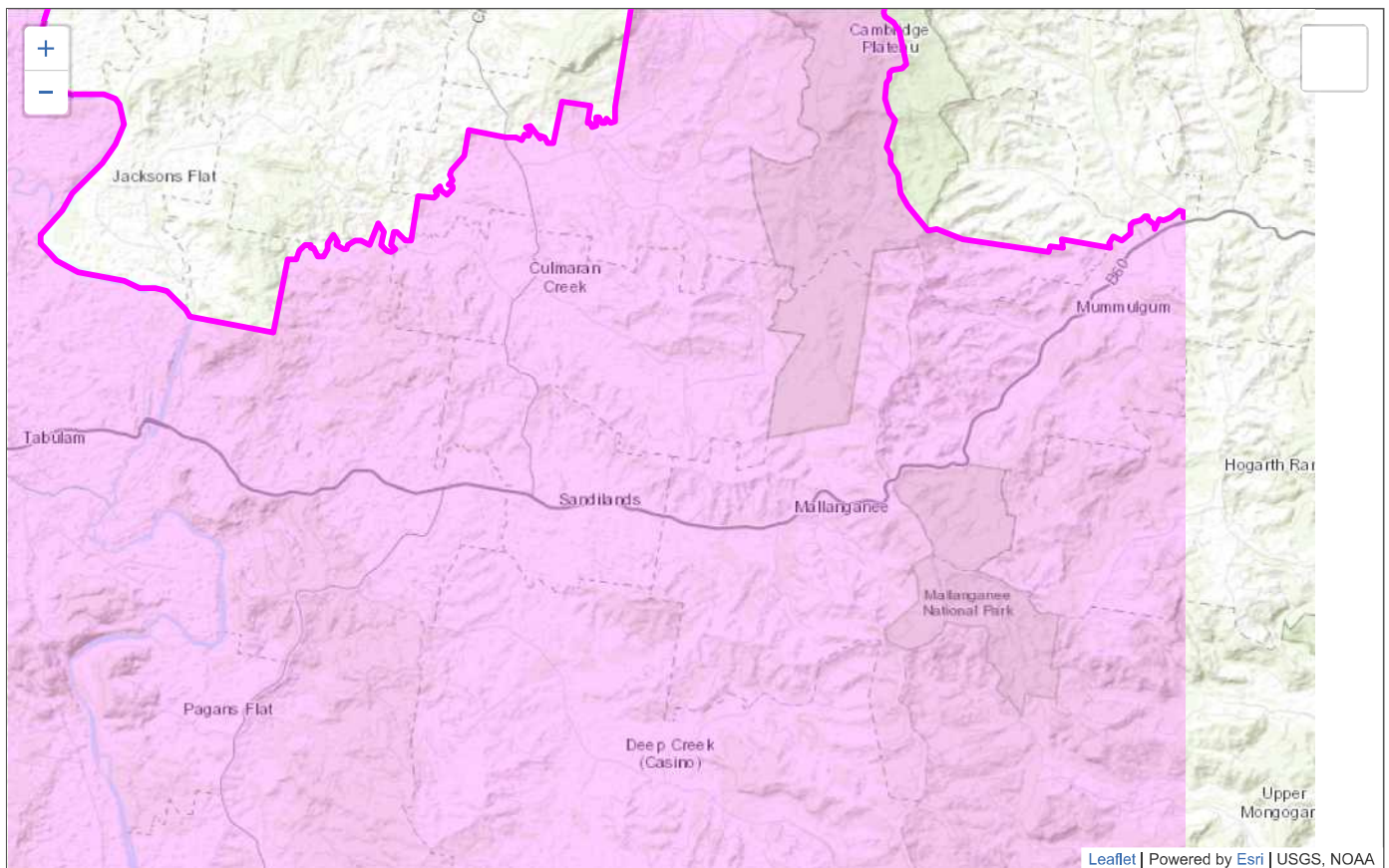
[Back to search results](#)

NI2020/002 - Western Bundjalung Amended Settlement Indigenous Land Use Agreement

Tribunal file no.	NI2020/002
ILUA name	Western Bundjalung Amended Settlement Indigenous Land Use Agreement
ILUA type	Area Agreement
Representative A/TSI body area(s)	NTSCORP Limited
State or Territory	New South Wales
Primary subject matter	Native Title Settlement
Other subject matter(s)	Access, Consultation protocol
Date registered	04/05/2021

Register extract

Register extract [ILUAREgisterExport.pdf](#)



View this map in NTV: [NI2020/002](#)

Appendix D: Native title information



Search National Native Title Register

The National Native Title Register (NNTR) is a register established under s. 192 of the *Native Title Act 1993* (Cth).

The NNTR contains determinations of native title made by:

- the High Court of Australia
- the Federal Court of Australia
- or a recognised body such as South Australia's Supreme Court and Environment Resources and Development Court.

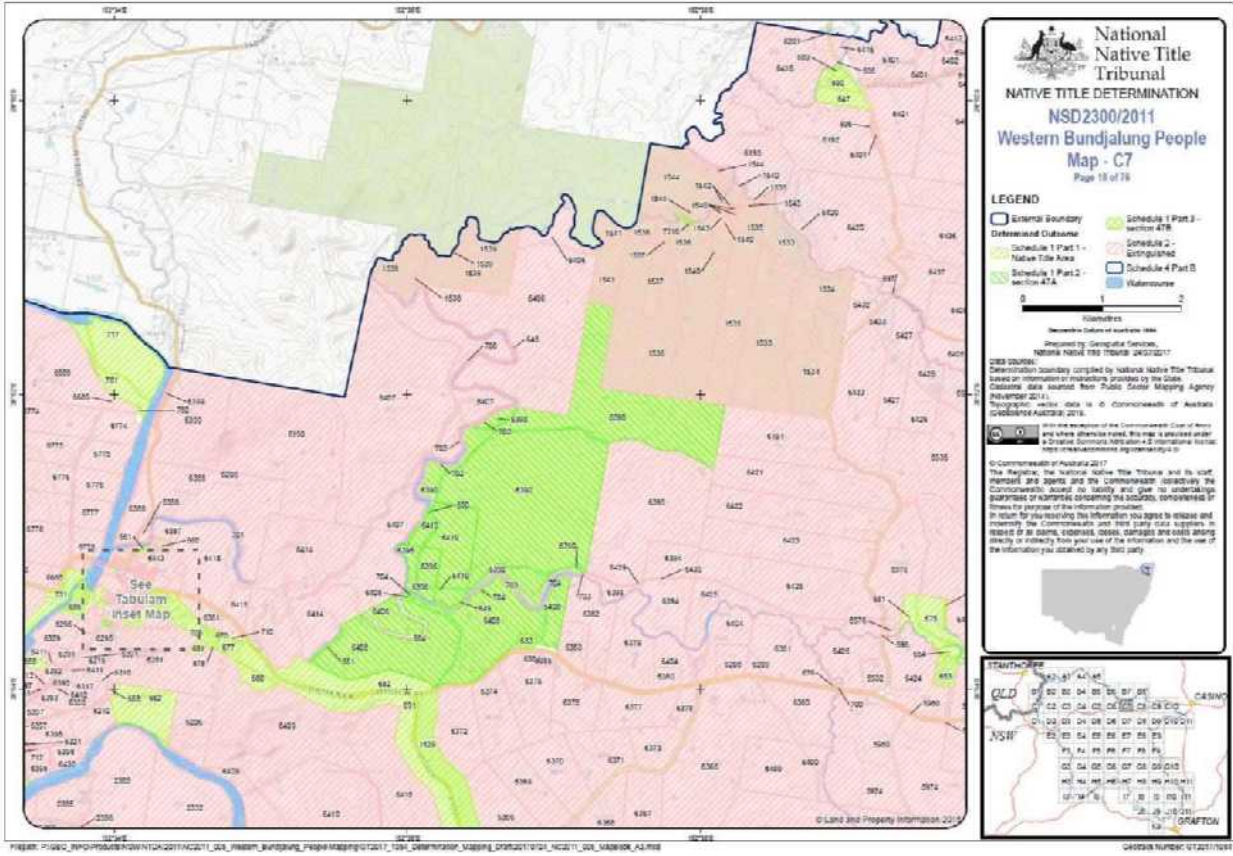
Further [information about the NNTR](#) is available.

Tribunal file no.	<input type="text"/>	Federal Court file no.	<input type="text"/>	Short name	<input type="text"/>
Case name	<input type="text"/>	State or Territory	New South Wales	Registered Native Title Body Corporate*	<input type="text"/>
Representative A/TSI body area	<input type="text"/>	Local government area	Kyogle Council	Determination type	<input type="text"/>
Legal process	ALL	Determination outcome	ALL	Determination date between	<input type="text"/>
and		Sort by	Determination date	<input type="button" value="Search"/>	

*Please note: current contact details for the Registered Native Title Body Corporate are available from the Office of the Registrar of Indigenous Corporations www.oric.gov.au

Your search returned **2** matches.

Short name	Case name	Legal process	Determination date	Outcome
Western Bundjalung People Part A	Western Bundjalung People v Attorney General of New South Wales	Consent	29/08/2017	Native title exists in parts of the determination area
The Githabul People	Trevor Close on behalf of the Githabul People v Minister for Lands	Consent	29/11/2007	Native title exists in the entire determination area



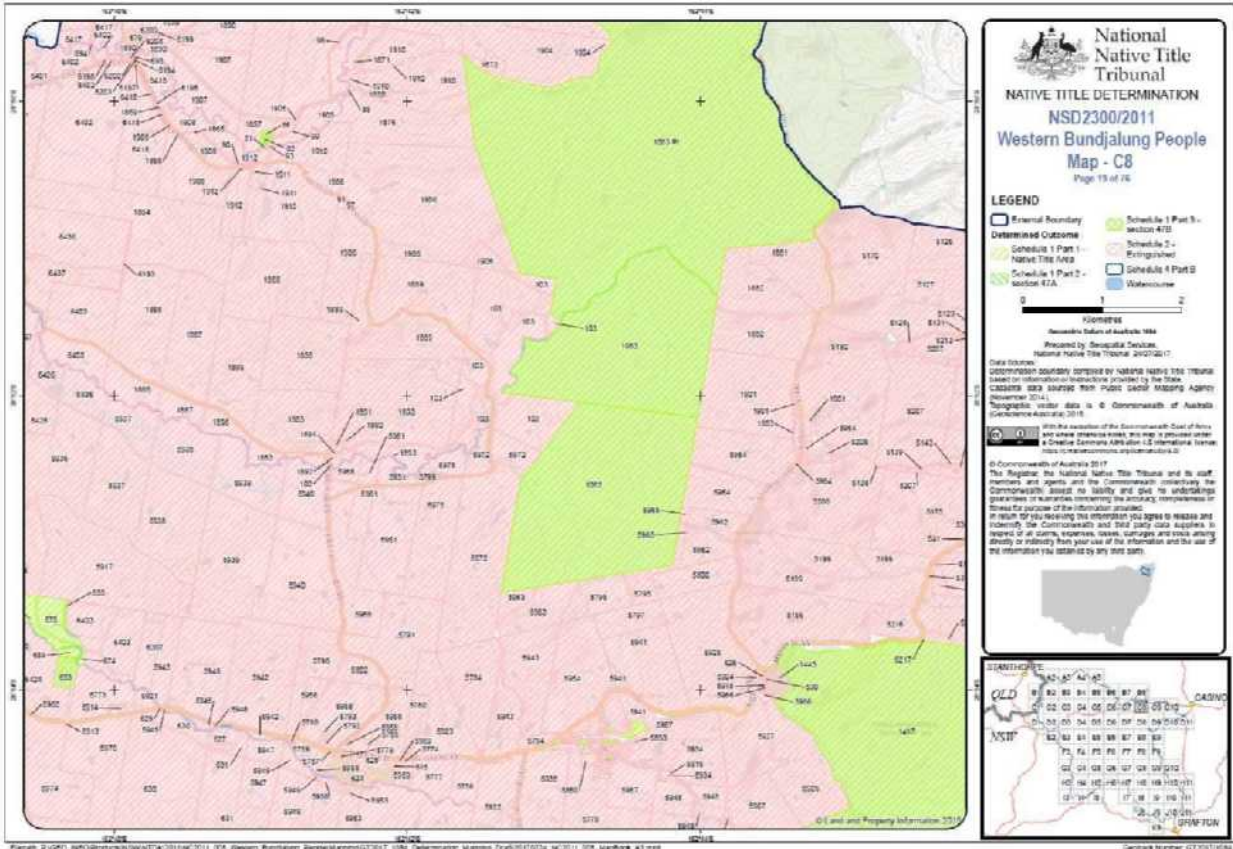


Figure 2: NSD2300/2011 Native Title Determination Map - C8

Document Number: 01/2017/002



Register of Indigenous Land Use Agreements Details

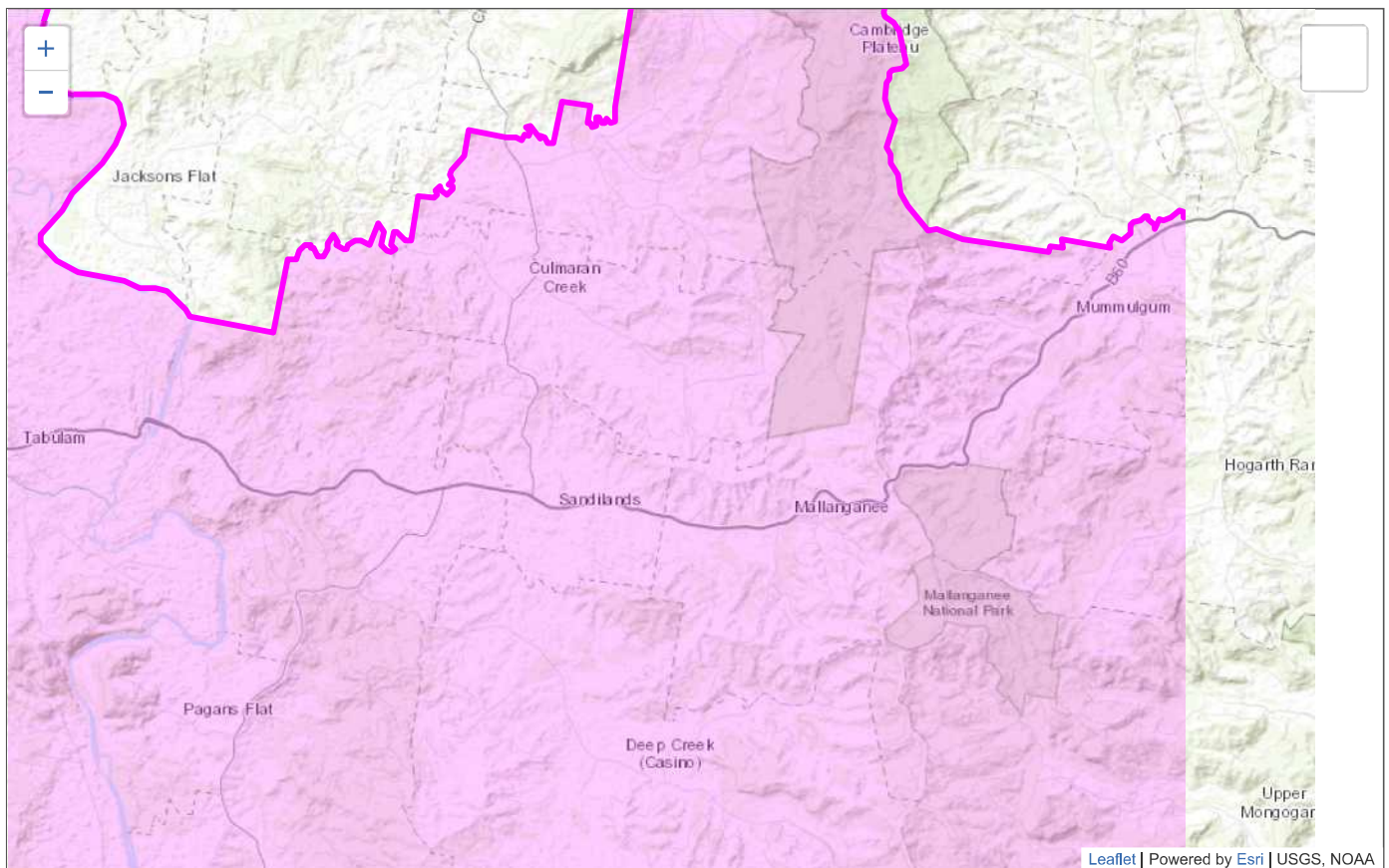
[Back to search results](#)

NI2020/002 - Western Bundjalung Amended Settlement Indigenous Land Use Agreement

Tribunal file no.	NI2020/002
ILUA name	Western Bundjalung Amended Settlement Indigenous Land Use Agreement
ILUA type	Area Agreement
Representative A/TSI body area(s)	NTSCORP Limited
State or Territory	New South Wales
Primary subject matter	Native Title Settlement
Other subject matter(s)	Access, Consultation protocol
Date registered	04/05/2021

Register extract

Register extract [ILUAREgisterExport.pdf](#)



View this map in NTV: [NI2020/002](#)

Appendix E: Contamination searches

[Home](#) [Public registers](#) [Contaminated land record of notices](#)

Search results

Your search for: LGA: KYOGLE COUNCIL

did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

- Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.
- The EPA may be regulating contamination at the site through a licence or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the [planning process](#).

[Search Again](#)

[Refine Search](#)

Search TIP

To search for a specific site, search by LGA (local government area) and carefully review all sites listed.

... [more search tips](#)

More information about particular sites may be available from:

- The [POEO public register](#)
- The appropriate planning authority: for example, on a planning certificate issued by the local council under [section 149 of the Environmental Planning and Assessment Act](#).

See [What's in the record and What's not in the record](#).

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the [POEO public register](#)

For business and industry ^

6 April 2022

For local government ^

Contact us

131 555 (tel:131555)

Online (<https://yoursay.epa.nsw.gov.au/epa-website-feedback>)

info@epa.nsw.gov.au (<mailto:info@epa.nsw.gov.au>)

EPA Office Locations (<https://www.epa.nsw.gov.au/about-us/contact-us/locations>)

[Accessibility \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)

[Disclaimer \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)

[Privacy \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)

[Copyright \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

in
(<https://au.l>
environmer
protection-
authrity-
(<https://www.epa.nsw.gov.au>)

Find us on

Cattle dip site locator

This search retrieved 5 dip sites.

For more information about each dip site, click on the name below.

Dip name	Road	Town/Localit
BARBERS	BRUXNER HIGHWAY	MUMMULGUM CASINO
EVERSONS	BRUXNER HIGHWAY	VIA MALLANGANE
HILLS	BRUXNER HIGHWAY	MUMMULGUM
NUGGETTS	BRUXNER HIGHWAY	NORTH TABULAM
RICHMOND RANGE	BRUXNER HIGHWAY	VIA MALLANGANE

Find dip sites

Dip name	<input type="text"/>
Road	<input type="text" value="bruxner highway"/>
Town/Locality	<input type="text"/>
Council	<input type="text" value="---select all---"/>
<input type="button" value="Search"/>	

The information contained in this web page is based on knowledge and understanding at the time of writing. However, because of advances in knowledge, users are reminded of the need to ensure that information upon which they rely is up to date and to check currency of the information with the appropriate officer of Industry & Investment NSW or the user's independent adviser.

Cattle dip site locator

Dip site location

Dip name	NUGGETTS	Note: Map references are for 25,000 series topographic and coordinates are in AGD66 AMG zone 56	
Road	BRUXNER HIGHWAY	Mapsheet	9440-III-S
Town/Locality	NORTH TABULAM	Easting	462450
Council	KYOGLÉ	Northing	6803480
Parish	TABULAM	County	DRAKE

Dip site status

IMPORTANT NOTE: Cattle dip site information provided by NSW DPI is based on our own hard copy files representing currently known data. NSW DPI is not a public consent authority for the development of land containing cattle dip sites. It is possible that the physical conditions of a cattle dip site - including soil, structures, access and usage - may have been changed due to extreme natural events or landowner and developer actions that NSW DPI cannot be aware of. For more specific and accurate status information a physical inspection should be made and enquiries should always be directed to the appropriate Shire Council.

Dip Status	LAPSED	Licence/Lease Status
Land Type	LEASE	Licence/Lease Expiry Date

[Explanation of status terms \(https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-site-locator?sq_content_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGRGlwJTJGRXhwbGFpbiZhbGw9MQ%3D%3D\)](https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-site-locator?sq_content_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGRGlwJTJGRXhwbGFpbiZhbGw9MQ%3D%3D)

Chemical Details

IMPORTANT NOTE: Chemical history has been retrieved from a copied laboratory log. In some cases it may be confirmed by entries in the hard copy lease folder but generally the chemical record is based on this single lab document. It is possible that there are inaccuracies as well as errors made

Chemicals used in dip bath	Date first used
ARSENIC	2/51
DDT	12/55
DIOXATHION	4/62
ETHION	5/72
PROMACYL	3/78

Current Details

Current Chemical	PROMICIDE
Dip bath status/contents	LIQUID, CRACKED

[New search \(https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-site-locator?sq_content_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGJmFsbD0x\)](https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-site-locator?sq_content_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGJmFsbD0x) | [Back](#)

the appropriate officer of Industry& Investment NSW or the user's independent adviser.



www.dpi.nsw.gov.au

Appendix F: Noise calculator

Distanced Based Assessment (Noisiest Plant)

Please pick from drop-down list in orange cells

Noise area category		R2
RBL or LAeq Background level (dB(A))	Day	45
	Evening	40
	Night	35
LAeq(15min) Noise Management Level (dB(A))	Day	55
	Day (OOHW)	50
	Evening	45
	Night	40
Is the loudest plant?	Checked	
Is there line of sight to receiver?	Yes	

Steps for Assessment:
 1. Schedule noisy works to occur in standard hours where possible or before 11pm and implement Standard Measures.
 2. Select the representative noise area category. The worksheet titled 'Representative Noise Environ.' provides a number of examples to help select the noise area category.
 3. Select the noisiest plant. If not found in drop-down list, refer to 'Source List' and select a representative plant with equivalent sound power level.
 4. Is there line of sight to receiver? Select the appropriate scenario from the drop-down list.
 Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the standard mitigation measures by changing the selection in the 'Is there line of sight to receiver?' drop-down list. Solid barriers can be in the form of road routing, timber lagged and capped fence, shipping container, site office etc. Substantial solid barriers are barriers greater than 5 metres in height or multiple rows of houses or a sound barrier specifically designed to mitigate construction noise. Please note that vegetation and trees are not considered to be a form of solid barrier and any gaps would compromise the acoustic integrity of the solid barrier.
 5. Determine if there are any receivers (both residential and non-residential receivers) within the affected distance for each relevant time period. Consider background LAeq noise measurements to check assumption in Step #2.
 (a) there are many affected receivers and the impact duration at any one receiver is more than 3 weeks; or
 (b) there are a few affected receivers and the impact duration at any one receiver is more than 3 weeks; or
 Note that consideration need to be given to the construction staging plan when determining impact duration.
 7. Identify if there are any receivers within the additional mitigation measures distances and identify feasible and reasonable measures at each receiver.
 8. Where night works are involved, identify sleep disturbance affected distance.
 9. Document the outcomes of these steps.
 (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator should be investigated on a project-by-project basis. Please contact a Roads and Maritime noise specialist for more information)

Abbreviation	Measure
N	Notification
SN	Specific notifications
PC	Phone calls
IB	Individual briefings
RO	Respite offer
R1	Respite period 1
R2	Respite period 2
DR	Duration respite
AA	Alternative accommodation
V	Verification

Note that spot check verification of noise levels and individual briefings are not required for projects with less than 3 weeks impact duration

Residential receiver		LAeq(15minute) noise level above background (LAeq)												LAeq(15minute) 75 dB(A) or greater (Highly affected)			Sleep disturbance Less than 65 dB(A)		
		5 to 10 dB(A)			10 to 20 dB(A)			20 to 30 dB(A)			> 30 dB(A)								
		Affected distance (m)		Within distance (m)		Mitigation level (dB(A))		Clearly audible		Moderately intrusive		Highly intrusive		Measures		Within distance (m)		Mitigation level (dB(A))	
Undeveloped green fields, rural areas with isolated dwellings	Day	175																	
	Day (OOHW)	250																	
	Evening	365																	
	Night	525	N	525	40														120
Developed settlements (urban and suburban)	Day	200																	
	Day (OOHW)	305																	
	Evening	460																	
	Night	690	N	690	40														135
Propagation across a valley / over water	Day	255																	
	Day (OOHW)	405																	
	Evening	630																	
	Night	960	N	960	40														160

Non-residential receiver Undeveloped green fields, rural areas with isolated dwellings		LAeq(15minute) noise level above NML												LAeq(15minute) 75 dB(A) or greater (Highly affected)		
		<10 dB(A)			10 to 20 dB(A)			> 20 dB(A)								
Standard hours		Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))
Classroom at schools and other educational institutions	Day	55	175													
	Day	65	75													
	Place of worship	Day	55	175												
	Active recreation	Day	65	75												
	Passive recreation	Day	60	120												
	Industrial premise	Day	75	25												
	Offices, retail outlets	Day	70	45												

Hospital wards and operating theatres		LAeq(15minute) noise level above NML												15 to 25 dB(A)			> 25 dB(A)		
		< 5 dB(A)			5 to 15 dB(A)			15 to 25 dB(A)			> 25 dB(A)								
Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))		
Evening	65	75																	
	Night	65	75	N	75	65													
	Evening	55	175																
Night	55	175	N	175	55														
	Evening	65	75																
	Active recreation	Evening	65	75															
Passive recreation	Evening	60	120																
	Evening	75	25																
	Industrial premise	Evening	75	25	N	25	75												
Offices, retail outlets	Evening	70	45																
	Night	70	45	N	45	70													
	Evening	70	45	N	45	70													

Non-residential receiver Developed settlements (urban and suburban)		LAeq(15minute) noise level above NML												LAeq(15minute) 75 dB(A) or greater (Highly affected)		
		<10 dB(A)			10 to 20 dB(A)			> 20 dB(A)								
Standard hours		Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))
Classroom at schools and other educational institutions	Day	55	200													
	Day	65	85													
	Place of worship	Day	55	200												
	Active recreation	Day	65	85												
	Passive recreation	Day	60	135												
	Industrial premise	Day	75	30												
	Offices, retail outlets	Day	70	50												

Hospital wards and operating theatres		LAeq(15minute) noise level above NML												15 to 25 dB(A)			> 25 dB(A)		
		< 5 dB(A)			5 to 15 dB(A)			15 to 25 dB(A)			> 25 dB(A)								
Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))		
Evening	65	85																	
	Night	65	85	N	85	65													
	Evening	55	200																
Night	55	200	N	200	55														
	Evening	65	85																
	Active recreation	Evening	60	135															
Passive recreation	Evening	75	30																
	Evening	75	30	N	30	75													
	Industrial premise	Evening	75	30	N	30	75												
Offices, retail outlets	Evening	70	50																
	Night	70	50	N	50	70													
	Evening	70	50	N	50	70													






Non-residential receiver Propagation across a valley / over water		LAeq(15minute) noise level above NML												LAeq(15minute) 75 dB(A) or greater (Highly affected)		
		<10 dB(A)			10 to 20 dB(A)			> 20 dB(A)								
Standard hours		Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))
Classroom at schools and other educational institutions	Day	55	255													
	Day	65	95													
	Place of worship	Day	55	255												
	Active recreation	Day	65	95												
	Passive recreation	Day	60	160												
	Industrial premise	Day	75	35												
	Offices, retail outlets	Day	70	60												

OOHW		LAeq(15minute) noise level above NML												15 to 25 dB(A)			> 25 dB(A)		
		< 5 dB(A)			5 to 15 dB(A)			15 to 25 dB(A)			> 25 dB(A)								
Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))		

	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))
Hospital wards and operating theatres	Evening	65	95				N, R1, DR	60	70	N, R1, DR	20	80	N, R1, DR, PC, SN	5	90
	Night	65	95	N	95	65	N, R2, NR	60	70	N, PC, SN, R2, DR	20	80	AA, N, PC, SN, R2, DR	5	90
Place of worship	Evening	55	255				N, R1, DR	160	60	N, R1, DR	60	70	N, R1, DR, PC, SN	20	80
	Night	55	255	N	255	55	N, R2, NR	160	60	N, PC, SN, R2, DR	60	70	AA, N, PC, SN, R2, DR	20	80
Active recreation	Evening	65	95				N, R1, DR	60	70	N, R1, DR	20	80	N, R1, DR, PC, SN	5	90
	Night	65	95				N, R1, DR	60	70	N, R1, DR	20	80	N, R1, DR, PC, SN	5	90
Passive recreation	Evening	60	160				N, R1, DR	95	65	N, R1, DR	35	75	N, R1, DR, PC, SN	15	85
	Night	60	160				N, R1, DR	20	80	N, R1, DR	5	90	N, R1, DR, PC, SN	2	100
Industrial premise	Evening	75	35	N	35	75	N, R2, NR	20	80	N, PC, SN, R2, DR	5	90	AA, N, PC, SN, R2, DR	2	100
	Night	75	35	N	35	75	N, R1, DR	35	75	N, R1, DR	15	85	N, R1, DR, PC, SN	3	95
Offices, retail outlets	Evening	70	60				N, R2, NR	35	75	N, PC, SN, R2, DR	15	85	AA, N, PC, SN, R2, DR	3	95
	Night	70	60	N	60	70	N, R1, DR	35	75	N, PC, SN, R2, DR	15	85	AA, N, PC, SN, R2, DR	3	95




Appendix G: Biodiversity searches

Data from the BioNet Atlas website, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions. Species listed under the Sensitive Species Data Policy may have their locations denatured (^ rounded to 0.1°C; ^^ rounded to 0.01°C. Copyright the State of NSW through the Department of Planning, Industry and Environment. Search criteria : Licensed Report of all Valid Records of Threatened (listed on BC Act 2016) or Commonwealth listed Plants Report generated on 14/08/2023 8:28 PM










Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Common status	Records	Info
Plantae	Flora	Cupressaceae	2277	<i>Callitris baileyi</i>		Bailey's Cypress Pine	E1		36	
Plantae	Flora	Fabaceae (Faboideae)	3030	<i>Sophora fraseri</i>		Brush Sophora	V	V	2	
Plantae	Flora	Myrtaceae	4096	<i>Eucalyptus glaucina</i>		Slaty Red Gum	V	V	4	
Plantae	Flora	Myrtaceae	4283	<i>Rhodamnia rubescens</i>		Scrub Turpentine	E4A	CE	1	
Plantae	Flora	Myrtaceae	4284	<i>Rhodomyrtus psidioides</i>		Native Guava	E4A	CE	1	

Data from the BioNet Atlas website, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions. Species listed under the Sensitive Species Data Policy may have their locations denatured (^ rounded to 0.1°C; ^^ rounded to 0.01°C. Copyright the State of NSW through the Department of Planning, Industry and Environment. Search criteria : Licensed Report of all Valid Records of Threatened (listed on BC Act 2016) or Commonwealth listed
 Report generated on 14/08/2023 8:33 PM

Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Common status	Records	Info
Community				<i>Grey Box—Grey Gum Wet Sclerophyll Forest in the NSW North Coast Bioregion</i>		Grey Box—Grey Gum Wet Sclerophyll Forest in the NSW North Coast Bioregion	E3		K	
Community				<i>Lowland Rainforest in the NSW North Coast and Sydney Basin Bioregions</i>		Lowland Rainforest in the NSW North Coast and Sydney Basin Bioregions	E3		K	
Community				<i>Lowland Rainforest of Subtropical Australia</i>		Lowland Rainforest of Subtropical Australia		CE	K	
Community				<i>Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion</i>		Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion	E3		K	

Community	<i>Montane Peatlands and Swamps of the New England Tableland, NSW North Coast, Sydney Basin, South East Corner, South Eastern Highlands and Australian Alps bioregions</i>	Montane Peatlands and Swamps of the New England Tableland, NSW North Coast, Sydney Basin, South East Corner, South Eastern Highlands and Australian Alps bioregions	E3	P	
Community	<i>Subtropical Coastal Floodplain Forest of the New South Wales North Coast Bioregion</i>	Subtropical Coastal Floodplain Forest of the New South Wales North Coast Bioregion	E3	K	
Community	<i>White Gum Moist Forest in the NSW North Coast Bioregion</i>	White Gum Moist Forest in the NSW North Coast Bioregion	E3	K	

Data from the BioNet Atlas website, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions. Species listed under the Sensitive Species Data Policy may have their locations denatured (^ rounded to 0.1°C; ^^ rounded to 0.01°C. Copyright the State of NSW through the Department of Planning, Industry and Environment. Search criteria : Licensed Report of all Valid Records of Threatened (listed on BC Act 2016) or Commonwealth listed
 Report generated on 14/08/2023 8:32 PM

Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Common status	Records	Info
Animalia	Aves	Ciconiidae	0183	<i>Ephippiorhynchus asiaticus</i>		Black-necked Stork	E1,P		1	
Animalia	Aves	Accipitridae	0226	<i>Haliaeetus leucogaster</i>		White-bellied Sea-Eagle	V,P		1	
Animalia	Aves	Cacatuidae	8862	^^ <i>Calyptorhynchus lathami lathami</i>		South-eastern Glossy Black-Cockatoo	V,P,2	V	2	
Animalia	Aves	Psittacidae	0260	<i>Glossopsitta pusilla</i>		Little Lorikeet	V,P		10	
Animalia	Aves	Strigidae	0248	<i>Ninox strenua</i>		Powerful Owl	V,P,3		5	
Animalia	Aves	Tytonidae	0250	<i>Tyto novaehollandiae</i>		Masked Owl	V,P,3		1	
Animalia	Aves	Tytonidae	9924	<i>Tyto tenebricosa</i>		Sooty Owl	V,P,3		1	
Animalia	Aves	Climacteridae	8127	<i>Climacteris picumnus victoriae</i>		Brown Treecreeper (eastern subspecies)	V,P		12	
Animalia	Aves	Artamidae	8519	<i>Artamus cyanopterus cyanopterus</i>		Dusky Woodswallow	V,P		3	

Animalia	Mammalia	Dasyuridae	1008	<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	V,P	E	1	
Animalia	Mammalia	Phascolarctidae	1162	<i>Phascolarctos cinereus</i>	Koala	E1,P	E	17	
Animalia	Mammalia	Petauridae	1137	<i>Petaurus norfolcensis</i>	Squirrel Glider	V,P		1	
Animalia	Mammalia	Pseudocheiridae	1133	<i>Petauroides volans</i>	Southern Greater Glider	E1,P	E	16	
Animalia	Mammalia	Potoroidae	1187	<i>Aepyprymnus rufescens</i>	Rufous Bettong	V,P		2	
Animalia	Mammalia	Pteropodidae	1280	<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	V,P	V	3	
Animalia	Mammalia	Vespertilionidae	1354	<i>Chalinolobus nigrogriseus</i>	Hoary Wattled Bat	V,P		1	
Animalia	Mammalia	Vespertilionidae	1372	<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	V,P		1	
Animalia	Mammalia	Vespertilionidae	1361	<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	V,P		4	



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 14-Aug-2023

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar)	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	4
Listed Threatened Species:	43
Listed Migratory Species:	15

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <https://www.dcceew.gov.au/parks-heritage/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	21
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have

State and Territory Reserves:	None
Regional Forest Agreements:	1
Nationally Important Wetlands:	None
EPBC Act Referrals:	2
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	1
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[[Resource Information](#)]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Dunn's white gum (Eucalyptus dunnii) moist forest in north-east New South Wales and south-east Queensland	Endangered	Community may occur within area	In buffer area only
Grey box-grey gum wet forest of subtropical eastern Australia	Endangered	Community likely to occur within area	In feature area
Lowland Rainforest of Subtropical Australia	Critically Endangered	Community may occur within area	In feature area
Subtropical eucalypt floodplain forest and woodland of the New South Wales North Coast and South East Queensland bioregions	Endangered	Community likely to occur within area	In feature area

Listed Threatened Species

[[Resource Information](#)]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Anthochaera phrygia Regent Honeyeater [82338]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calyptorhynchus lathami lathami South-eastern Glossy Black-Cockatoo [67036]	Vulnerable	Species or species habitat known to occur within area	In feature area
Climacteris picumnus victoriae Brown Treecreeper (south-eastern) [67062]	Vulnerable	Species or species habitat known to occur within area	In feature area
Cyclopsitta diophthalma coxeni Coxen's Fig-Parrot [59714]	Critically Endangered	Species or species habitat may occur within area	In feature area
Erythrotriorchis radiatus Red Goshawk [942]	Endangered	Species or species habitat likely to occur within area	In feature area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species habitat may occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat may occur within area	In feature area
Melanodryas cucullata cucullata South-eastern Hooded Robin, Hooded Robin (south-eastern) [67093]	Endangered	Species or species habitat may occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Stagonopleura guttata Diamond Firetail [59398]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Turnix melanogaster Black-breasted Button-quail [923]	Vulnerable	Species or species habitat may occur within area	In feature area
FISH			
Maccullochella ikei Clarence River Cod, Eastern Freshwater Cod [26170]	Endangered	Species or species habitat known to occur within area	In buffer area only
FROG			
Mixophyes fleayi Fleay's Frog [25960]	Endangered	Species or species habitat may occur within area	In feature area
Mixophyes iteratus Giant Barred Frog, Southern Barred Frog [1944]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Phyllorhina kundagungan Mountain Frog [1935]	Endangered	Species or species habitat may occur within area	In feature area
MAMMAL			
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Dasyurus maculatus maculatus (SE mainland population) Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat known to occur within area	In feature area
Notamacropus parma Parma Wallaby [89289]	Vulnerable	Species or species habitat may occur within area	In feature area
Petauroides volans Greater Glider (southern and central) [254]	Endangered	Species or species habitat known to occur within area	In feature area
Petaurus australis australis Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Petrogale penicillata Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat may occur within area	In feature area
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)			
Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat known to occur within area	In feature area
Potorous tridactylus tridactylus Long-nosed Potoroo (northern) [66645]	Vulnerable	Species or species habitat may occur within area	In feature area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
PLANT			
Arthraxon hispidus Hairy-joint Grass [9338]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Bosistoa transversa Three-leaved Bosistoa, Yellow Satinheart [16091]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Cryptostylis hunteriana Leafless Tongue-orchid [19533]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Dichanthium setosum bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Eucalyptus glaucina Slaty Red Gum [5670]	Vulnerable	Species or species habitat known to occur within area	In feature area
Macadamia integrifolia Macadamia Nut, Queensland Nut Tree, Smooth-shelled Macadamia, Bush Nut, Nut Oak [7326]	Vulnerable	Species or species habitat may occur within area	In feature area
Paspalidium grandispiculatum a grass [10838]	Vulnerable	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Persicaria elatior Knotweed, Tall Knotweed [5831]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Plectranthus nitidus Nightcap Plectranthus, Silver Plectranthus [55742]	Endangered	Species or species habitat may occur within area	In buffer area only
Rhodamnia rubescens Scrub Turpentine, Brown Malletwood [15763]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Rhodomyrtus psidioides Native Guava [19162]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
Thesium australe Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat may occur within area	In feature area
Triplarina imbricata [64543]	Endangered	Species or species habitat may occur within area	In feature area

REPTILE

Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area	In feature area
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Listed Migratory Species

[[Resource Information](#)]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area

Migratory Terrestrial Species

Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat likely to occur within area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area	In feature area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area	In feature area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat may occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area	In buffer area only

Other Matters Protected by the EPBC Act

Listed Marine Species			[Resource Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area overfly marine area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area overfly marine area	In feature area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In feature area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat likely to occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area overfly marine area	In feature area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area	In buffer area only
Pterodroma cervicalis White-necked Petrel [59642]		Species or species habitat may occur within area	In feature area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area overfly marine area	In feature area
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat may occur within area overfly marine area	In feature area

Extra Information

Regional Forest Agreements [\[Resource Information \]](#)

Note that all areas with completed RFAs have been included. Please see the associated resource information for specific caveats and use limitations associated with RFA boundary information.

RFA Name	State	Buffer Status
North East NSW RFA	New South Wales	In feature area

EPBC Act Referrals [\[Resource Information \]](#)

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
330 kV Transmission Line, 205km in Length	2010/5326	Controlled Action	Completed	In feature area
Not controlled action				
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area

Bioregional Assessments

SubRegion	BioRegion	Website	Buffer Status
Clarence-Moreton	Clarence-Moreton	BA website	In feature area

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-Other groups and individuals](#)

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Appendix H: Likelihood of occurrence assessment

TEC

Threatened Ecological Community	Status		Occurs on site (Y/N)	Test of Significance required (Y/N)? (If yes refer Appendix I)
	BC Act	EPBC Act		
Grey Box-Grey Gum Wet Sclerophyll Forest in the NSW North Coast Bioregion	E	-	N	N
Lowland Rainforest in the NSW North Coast and Sydney Basin Bioregions	E	CE	N	N
Lowland Rainforest of Subtropical Australia	-	CE	N	N
Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion	E	CE	N	N
Montane Peatlands and Swamps of the New England Tableland, NSW North Coast, Sydney Basin, South East Corner, South Eastern Highlands and Australian Alps bioregions	E	E	N	N
Subtropical Coastal Floodplain Forest of the New South Wales North Coast Bioregion	E	-	N	N
White Gum Moist Forest in the NSW North Coast Bioregion	E	-	N	N

Key: E – Endangered
CE – Critically Endangered

Likelihood	Criteria
Recorded	The species was observed in the study area during the current survey
High	It is highly likely that a species inhabits the study area and is dependant on identified suitable habitat (ie. for breeding or important life cycle periods such as winter flowering resources), has been recorded recently in the locality (10km) and is known or likely to maintain resident populations in the study area. Also includes species known or likely to visit the study area during regular seasonal movements or migration.
Moderate	Potential habitat is present in the study area. Species unlikely to maintain sedentary populations, however may seasonally use resources within the study area opportunistically or during migration. The species is unlikely to be dependent (ie. for breeding or important life cycle periods such as winter flowering resources) on habitat within the study area, or habitat is in a modified or degraded state. Includes cryptic flowering flora species that were not seasonally targeted by surveys and that have not been recorded.
Low	It is unlikely that the species inhabits the study area and has not been recorded recently in the locality (10km). It may be an occasional visitor, but habitat similar to the study area is widely distributed in the local area, meaning that the species is not dependent (ie. for breeding or important life cycle periods such as winter flowering resources) on available habitat. Specific habitat is not present in the study area or the species are a non-cryptic perennial flora species that were specifically targeted by surveys and not recorded.
None	Suitable habitat is absent from the study area.

Flora

Scientific Name	Common Name	Status		Number of records	Habitat Requirement	Subject site contains suitable habitat (Y/N)	Likelihood of occurrence	Test of Significance required (Y/N)? (If yes refer Appendix I)
		BC Act	EPBC Act					
<i>Callitris baileyi</i>	Bailey's Cypress Pine	E	-	32	Rocky, hilly or mountainous areas, usually near creeks, and on shallow and often clay soils. In NSW the population occurs in open grassy eucalypt forest, near a creek.	Y	High	No Not recorded on site
<i>Eucalyptus glaucina</i>	Slaty Red Gum	V	V	4	Grows in grassy woodland and dry eucalypt forest on deep, moderately fertile and well-watered soils.	Y	Moderate	No Not recorded on site
<i>Rhodamnia rubescens</i>	Scrub Turpentine	CE	CE	1	Found in littoral, warm temperate and subtropical rainforest and wet sclerophyll forest usually on volcanic and sedimentary soils.	No	Low	No
<i>Rhodomyrtus psidioides</i>	Native Guava	CE	CE	1	Pioneer species found in littoral, warm temperate and subtropical rainforest and wet sclerophyll forest often near creeks and drainage lines.	No	Low	No
<i>Sophora fraseri</i>	Brush Sophora	V	V	2	Brush Sophora is usually found in moist situations, often near rainforest	No	Low	No

Key: E – Endangered
V – Vulnerable
CE – Critically Endangered

Fauna

Scientific Name	Common Name	Status		Number of records	Habitat Requirement	Suitable habitat present? (Y/N)	Likelihood of occurrence	Significant Impact Assessment considered necessary (Y/N)? (If yes refer Appendix I)
		BC Act	EPBC Act					
Aves								
<i>Artamus cyanopterus cyanopterus</i>	Dusky Woodswallow	V	-	3	Primarily inhabit dry, open eucalypt forests and woodlands, including mallee associations, with an open or sparse understorey of eucalypt saplings, acacias and other shrubs, and ground-cover of grasses or sedges and fallen woody debris. It has also been recorded in shrublands, heathlands and very occasionally in moist forest or rainforest. Also found in farmland, usually at the edges of forest or woodland.	Y	Moderate	Yes
<i>Calyptorhynchus lathami lathami</i>	South-eastern Glossy Black-Cockatoo	V	V	2	Inhabits open forest and woodlands of the coast and the Great Dividing Range up to 1000 m in which stands of She-oak species, particularly Black She-oak (<i>Allocasuarina littoralis</i>), Forest She-oak (<i>A. torulosa</i>) or Drooping She-oak (<i>A. verticillata</i>) occur.	Yes	Moderate	Yes

Scientific Name	Common Name	Status		Number of records	Habitat Requirement	Suitable habitat present? (Y/N)	Likelihood of occurrence	Significant Impact Assessment considered necessary (Y/N)? (If yes refer Appendix I)
		BC Act	EPBC Act					
<i>Climacteris picumnus victoriae</i>	Brown Treecreeper	V	-	12	Occurs in eucalypt forests and woodlands of inland plains and slopes of the Great Dividing Range. It is less commonly found on coastal plains and ranges. Mainly inhabits woodlands dominated by stringybarks or other rough-barked eucalypts, usually with an open grassy understorey	Yes	Moderate	Yes
<i>Ephippiorhynchus asiaticus</i>	Black-necked Stork	E	-	1	Floodplain wetlands (swamps, billabongs, watercourses and dams). Secondary habitat includes minor floodplains, coastal sandplain wetlands and estuaries.	No	Low	No Site contains marginal potential foraging habitat.
<i>Glossopsitta pusilla</i>	Little Lorikeet	V	-	10	Forages primarily in the canopy of open Eucalypt forest and woodland, yet also finds food in Angophora, Melaleuca and other tree species. Riparian habitats are particularly used. Nests in proximity to feeding areas most typically selecting hollows in the limb or trunk of smooth-barked Eucalypts. Riparian trees often chosen, including species like Allocasuarina.	Yes	Moderate	Yes

Scientific Name	Common Name	Status		Number of records	Habitat Requirement	Suitable habitat present? (Y/N)	Likelihood of occurrence	Significant Impact Assessment considered necessary (Y/N)? (If yes refer Appendix I)
		BC Act	EPBC Act					
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	V	-	1	Occurs at sites near the sea or sea-shore, such as around bays and inlets, beaches, reefs, lagoons, estuaries and mangroves; and at, or in the vicinity of freshwater swamps, lakes, reservoirs, billabongs and saltmarsh.	No	Low	No habitat present.
<i>Ninox strenua</i>	Powerful Owl	V	-	5	Known from woodland and open sclerophyll forest to tall open wet forest and rainforest. Requires large tracts of forest but can occur in fragmented landscapes. It roosts by day in dense vegetation comprising species such as Turpentine <i>Syncarpia glomulifera</i> , Black She-oak <i>Allocasuarina littoralis</i> , Blackwood <i>Acacia melanoxylon</i> , Rough-barked Apple <i>Angophora floribunda</i> , Cherry Ballart <i>Exocarpus cupressiformis</i> and a number of eucalypt species. Powerful Owls nest in large tree hollows (at least 0.5 m deep), in large eucalypts (diameter at breast height of 80-240 cm) that are at least 150 years old.	Yes	Low	No No habitat trees present. Site contains only small area or potential foraging habitat.
<i>Tyto novaehollandiae</i>	Masked Owl	V	-	1	Dry eucalypt forest and woodlands. Roosts and breeds in moist eucalypt forested gullies, using large tree hollows or sometimes caves for nesting.	Yes	Low	No. No habitat trees present. Site contains only small area or potential foraging habitat.

Scientific Name	Common Name	Status		Number of records	Habitat Requirement	Suitable habitat present? (Y/N)	Likelihood of occurrence	Significant Impact Assessment considered necessary (Y/N)? (If yes refer Appendix I)
		BC Act	EPBC Act					
<i>Tyto tenebricosa</i>	Sooty Owl	V	-	1	Dry, subtropical and warm temperate rainforests and wet eucalypt forests. Nest in large tree hollows.	Yes	Low	No. No habitat trees present. Site contains only small area or potential foraging habitat.
Mammalia								
<i>Aepyprymnus rufescens</i>	Rufous Bettong	V	-	2	Rufous Bettongs inhabit a variety of forests from tall, moist eucalypt forest to open woodland, with a tussock grass understorey. A dense cover of tall native grasses is the preferred shelter.	Yes	Low	No Species unlikely to occupy areas of subject site due to limited habitat and disturbance.
<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	V	E	1	Dry and moist eucalypt forests and rainforests, fallen hollow logs, large rocky outcrops.	Yes	Low	No Species unlikely to occupy areas of subject site due to limited habitat and disturbance.
<i>Petauroides volans</i>	Southern Greater Glider	E	E	16	Occur in tall mature eucalypt forest along the Great Dividing Range	No	Low	Yes All records from large forest patch to south, but potential (marginal) habitat occurs.
<i>Petaurus norfolcensis</i>	Squirrel Glider	V	-	1	Inhabits mature or old growth Box, Box-Ironbark woodlands and River Red Gum forest west of the Great Dividing Range and Blackbutt-Bloodwood forest with heath understorey in coastal areas.	Yes	Moderate	Yes

Scientific Name	Common Name	Status		Number of records	Habitat Requirement	Suitable habitat present? (Y/N)	Likelihood of occurrence	Significant Impact Assessment considered necessary (Y/N)? (If yes refer Appendix I)
		BC Act	EPBC Act					
<i>Phascolarctos cinereus</i>	Koala	E	E	17	The Koala inhabits eucalypt forest and woodland. The suitability of forest and woodland communities as habitat for Koalas is influenced by the size and species of trees present, soil nutrients, climate, rainfall and the size and disturbance history of the habitat patches.	Yes	Moderate	Yes
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	V	V	3	Subtropical and temperate rainforests, tall sclerophyll forests and woodlands, heaths and swamps as well as urban gardens and cultivated fruit crops.	Yes	Low	No No flying fox camp present at subject site. Impacts limited to small area of potential foraging habitat only.
Microbats								
<i>Chalinolobus nigrogriseus</i>	Hoary Wattled Bat	V	-	1	In NSW the Hoary Wattled Bat occurs in dry open eucalypt forests, favouring forests dominated by Spotted Gum, boxes and ironbarks, and heathy coastal forests where Red Bloodwood and Scribbly Gum are common. Roosts in hollows and rock crevices.	Yes	Moderate	Yes
<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	V	-	1	Prefers moist habitats, with trees taller than 20m. Generally roosts in eucalypt hollows, but has also been found under loose bark on trees or in buildings.	Yes	Low	No

Scientific Name	Common Name	Status		Number of records	Habitat Requirement	Suitable habitat present? (Y/N)	Likelihood of occurrence	Significant Impact Assessment considered necessary (Y/N)? (If yes refer Appendix I)
		BC Act	EPBC Act					
<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	V	-	4	Utilises a variety of habitats from woodland through to moist and dry eucalypt forest and rainforest, though it is most commonly found in tall wet forest. Although this species usually roosts in tree hollows, it has also been found in buildings.	Yes	Moderate	Yes

Key: E – Endangered
V – Vulnerable
CE – Critically Endangered

Appendix I: Test of significance (BC Act)

Appendix I

Significant Impact Assessment

THREATENED SPECIES - TEST OF SIGNIFICANCE

The threatened species test of significance is used to determine if a development or activity is likely to significantly affect threatened species or ecological communities, or their habitats. It is applied as part of the Biodiversity Offsets Scheme entry requirements and for Part 5 activities under the *Environmental Planning and Assessment Act 1979*. The test of significance is set out in s.7.3 of the *Biodiversity Conservation Act 2016*.

The following species have been identified as requiring a test of significance for the purposes of the **HW16 Bruxner Highway S5470-5480 Tara to Captains Creek** Minor Works Review of Environmental Factors (MWREF):

Fauna

- Dusky Woodswallow (*Artamus cyanopterus cyanopterus*)
- Brown Treecreeper (eastern subspecies) (*Climacteris picumnus victoriae*)
- South-eastern Glossy Black-Cockatoo (*Calyptorhynchus lathami lathami*)
- Squirrel Glider (*Petaurus norfolcensis*)
- Little Lorikeet (*Glossopsitta pusilla*)
- Squirrel Glider (*Petaurus norfolcensis*)
- Southern Greater Glider (*Petauroides volans*)
- Koala (*Phascolarctos cinereus*)
- Hoary Wattled Bat (*Chalinolobus nigrogriseus*)
- Greater Broad-nosed Bat (*Scoteanax rueppellii*)

The conservation status, habitat requirements and main threats has been summarised as follows in **Table A**.

Table A: Species profiles

Scientific Name	Common Name	BC Act (NSW)	EPBC Act (C'wealth)	Habitat and Ecology * #	Threats * #
<i>Phascolarctos cinereus</i>	Koala	E	E	<ul style="list-style-type: none"> Inhabit eucalypt woodlands and forests and feed on the foliage of more than 70 eucalypt species and 30 non-eucalypt species, but in any one area will select preferred browse species. Inactive for most of the day, feeding and moving mostly at night. They spend most of their time in trees but will descend and traverse open ground to move between trees. Home range size varies with quality of habitat, ranging from less than two ha to several hundred hectares in size. Koalas are generally solitary but have complex social hierarchies based on a dominant male with a territory overlapping several females and sub-ordinate males on the periphery. Females breed at two years of age and produce one young per year. 	<ul style="list-style-type: none"> Loss, modification and fragmentation of habitat. Vehicle strike. Predation by roaming or domestic dogs. Intense prescribed burns or wildfires that scorch or burn the tree canopy. Koala disease. Heat stress through drought and heatwaves Human-induced climate change. Inadequate support for fauna rehabilitation Poor understanding of sources of trauma and mortality. Poor understanding of population distribution and trend. Poor understanding of animal movements and use of habitat.
<i>Petaurus norfolcensis</i>	Squirrel Glider	V	-	<ul style="list-style-type: none"> Inhabits mature or old growth Box, Box-Ironbark woodlands and River Red Gum forest west of the Great Dividing Range and Blackbutt-Bloodwood forest with heath understorey in coastal areas. Prefers mixed species stands with a shrub or Acacia midstorey. Live in family groups of a single adult male one or more adult females and offspring. Require abundant tree hollows for refuge and nest sites. Diet varies seasonally and consists of Acacia gum, eucalypt sap, nectar, honeydew and manna, with invertebrates and pollen providing protein. 	<ul style="list-style-type: none"> Habitat loss and degradation. Fragmentation of habitat. Loss of hollow-bearing trees. Loss of understorey food resources. Inappropriate fire regimes. Reduction in food resources due to drought. Mortality due to entanglement on barbed wire. Occupation of hollows by exotic species. Mortality due to collision with vehicles. Predation by exotic predators. Changes in spatial and temporal distribution of habitat due to climate change
<i>Petauroides volans</i>	Southern Greater Glider	E	E	<ul style="list-style-type: none"> Feeds exclusively on eucalypt leaves, buds, flowers and mistletoe. Shelter during the day in tree hollows and will use up to 18 hollows in their home range. 	<ul style="list-style-type: none"> Loss of habitat including fragmentation and lack of connectivity to surrounding habitat as a result of urban and rural development. Loss of hollow-bearing trees.

Scientific Name	Common Name	BC Act (NSW)	EPBC Act (C'wealth)	Habitat and Ecology * #	Threats * #
				<ul style="list-style-type: none"> • Occupy a relatively small home range with an average size of 1 to 3 ha. • Give birth to a single young in late autumn or early winter which remains in the pouch for approximately 4 months and is independent at 9 months of age. • Usually solitary, though mated pairs and offspring will share a den during the breeding season and until the young are independent. • Can glide up to a horizontal distance of 100m including changes of direction of as much as 90 degrees. • Very loyal to their territory. 	<ul style="list-style-type: none"> • Too frequent or high severity fires impacting the population and hollow bearing trees • Small population size susceptible to unmanageable threats including loss of individuals (e.g. from powerful owl predation) and threats impacting habitat quality and food availability (e.g. climate change and drought). • Barbed wire fences can entangle gliders and damage their gliding membranes.
<i>Chalinolobus nigrogriseus</i>	Hoary Wattled Bat	V	-	<ul style="list-style-type: none"> • Occurs in dry open eucalypt forests, favouring forests dominated by Spotted Gum, boxes and ironbarks, and heathy coastal forests where Red Bloodwood and Scribbly Gum are common. Because it flies fast below the canopy level, forests with naturally sparse understorey layers may provide the best habitat. • Roosts in hollows and rock crevices. • Will occupy urban areas with suitable habitat. 	<ul style="list-style-type: none"> • Clearing and fragmentation of dry forest and woodland habitat through clearing for agriculture and development. • Loss of tree hollows for roosting and maternity sites from forest management favouring younger stands of trees. • Loss of hollow-bearing trees used for roosting and maternity sites as a result of too-frequent burning for grazing and forestry management activities. • Pesticides on insects and in water consumed by bats bio accumulates, resulting in poisoning of individuals. The use of pesticides also reduces available insect food sources. • Lack of information on the species in NSW to inform a conservation management strategy
<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	V	-	<ul style="list-style-type: none"> • Utilises a variety of habitats from woodland through to moist and dry eucalypt forest and rainforest, though it is most commonly found in tall wet forest. • Although this species usually roosts in tree hollows, it has also been found in buildings. • Forages after sunset, flying slowly and directly along creek and river corridors at an altitude of 3 - 6 m. 	<ul style="list-style-type: none"> • Disturbance to roosting and summer breeding sites. • Foraging habitats are being cleared for residential and agricultural developments, including clearing by residents within rural subdivisions. • Loss of hollow-bearing trees. • Pesticides and herbicides may reduce the availability of insects, or result in the

Scientific Name	Common Name	BC Act (NSW)	EPBC Act (C'wealth)	Habitat and Ecology * #	Threats * #
				<ul style="list-style-type: none"> Open woodland habitat and dry open forest suits the direct flight of this species as it searches for beetles and other large, slow-flying insects; this species has been known to eat other bat species. Little is known of its reproductive cycle, however a single young is born in January; prior to birth, females congregate at maternity sites located in suitable trees, where they appear to exclude males during the birth and raising of the single young. 	<ul style="list-style-type: none"> accumulation of toxic residues in individuals' fat stores. Changes to water regimes are likely to impact food resources, as is the use of pesticides and herbicides near waterways.
<i>Calyptorhynchus lathamii</i>	Glossy Black Cockatoo	V	V	<ul style="list-style-type: none"> Inhabits open forest and woodlands of the coast and the Great Dividing Range where stands of sheoak occur. Black Sheoak (<i>Allocasuarina littoralis</i>) and Forest Sheoak (<i>A. torulosa</i>) are important foods. Inland populations feed on a wide range of sheoaks, including Drooping Sheoak, <i>Allocasuarina diminuta</i>, and <i>A. gymnathera</i>. Belah is also utilised and may be a critical food source for some populations. In the Riverina, birds are associated with hills and rocky rises supporting Drooping Sheoak, but also recorded in open woodlands dominated by Belah (<i>Casuarina cristata</i>). Feeds almost exclusively on the seeds of several species of she-oak (<i>Casuarina</i> and <i>Allocasuarina</i> species), shredding the cones with the massive bill. Dependent on large hollow-bearing eucalypts for nest sites. A single egg is laid between March and May. 	<ul style="list-style-type: none"> Reduction of suitable habitat through clearing for development. Decline of hollow bearing trees over time due to land management activities. Excessively frequent fire which eliminates sheoaks from areas, prevents the development of mature sheoak stands, and destroys nest trees. Firewood collection resulting in loss of hollow-bearing trees, reduced recruitment of hollow-bearing trees, and disturbance of breeding attempts. Decline in extent and productivity of sheoak foraging habitat due to feral herbivores. Reduced access to surface water in close proximity to foraging and nesting habitat. Limited information on the location of nesting aggregations and the distribution of high quality breeding habitat. Disturbance from coal seam gas and open cut coal mining causing loss of foraging and breeding habitat as well as disturbing reproductive attempts. Decline in extent and productivity of sheoak foraging habitat caused by moisture stress due to climate change. Forestry activity resulting in loss of hollow-bearing trees, reduced recruitment of hollow-

Scientific Name	Common Name	BC Act (NSW)	EPBC Act (C'wealth)	Habitat and Ecology * #	Threats * #
					<p>bearing trees, degradation of foraging habitat, and disturbance of breeding attempts.</p> <ul style="list-style-type: none"> • Degradation of foraging habitat and reduced regeneration of sheoak stands due to grazing by domestic stock. • Loss of foraging habitat due to slashing/underscrubbing. • Change in the spatial and temporal distribution of resources due to global warming. • Illegal bird smuggling and egg-collecting. • Habitat infestation by weeds such as African boxthorn, Gazania, buffel grass and other invasive grasses.
<i>Climacteris picumnus victoriae</i>	Brown Treecreeper (eastern subspecies)	√	-	<ul style="list-style-type: none"> • Found in eucalypt woodlands (including Box-Gum Woodland) and dry open forest of the inland slopes and plains inland of the Great Dividing Range; mainly inhabits woodlands dominated by stringybarks or other rough-barked eucalypts, usually with an open grassy understorey, sometimes with one or more shrub species. • Sedentary, considered to be resident in many locations throughout its range; present in all seasons or year-round at many sites; territorial year-round, though some birds may disperse locally after breeding. • Gregarious and usually observed in pairs or small groups of 8 to 12 birds; terrestrial and arboreal in about equal proportions; active, noisy and conspicuous while foraging on trunks and branches of trees and amongst fallen timber; spend much more time foraging on the ground and fallen logs than other treecreepers. • Hollows in standing dead or live trees and tree stumps are essential for nesting. 	<ul style="list-style-type: none"> • Historical loss of woodland, forest and mallee habitats as a result of agriculture, forestry, mining and residential development. • Fragmentation of woodland and forest remnants which isolates populations and causes local extinctions. • Ongoing degradation of habitat, particularly the loss of tree hollows and fallen timber from firewood collection and overgrazing. • Lack of regeneration of eucalypt overstorey in woodland due to overgrazing and too-frequent fires. • Loss of ground litter from compaction and overgrazing. • Inappropriate forestry management practices. • Loss of understorey habitat. • Competition from invasive weeds. • Aggressive exclusion from forest and woodland habitat by over abundant Noisy Miners.
<i>Artamus cyanopterus cyanopterus</i>	Dusky Woodswallow	√	-	<ul style="list-style-type: none"> • Primarily inhabit dry, open eucalypt forests and woodlands, including mallee associations, with an open or sparse understorey of eucalypt saplings, acacias and other shrubs, and ground- 	<ul style="list-style-type: none"> • Historical and ongoing loss of woodlands and dry open sclerophyll forests, including mallee because of agriculture, mining, forestry and residential development.

Scientific Name	Common Name	BC Act (NSW)	EPBC Act (C'wealth)	Habitat and Ecology * #	Threats * #
				<p>cover of grasses or sedges and fallen woody debris.</p> <ul style="list-style-type: none"> • Primarily eats invertebrates, mainly insects, which are captured whilst hovering or sallying above the canopy or over water. Also frequently hovers, sallies and pounces under the canopy, primarily over leaf litter and dead timber. Also occasionally take nectar, fruit and seed. • Depending on location and local climatic conditions (primarily temperature and rainfall), the dusky woodswallow can be resident year round or migratory. In NSW, after breeding, birds migrate to the north of the state and to southeastern Queensland, while Tasmanian birds migrate to southeastern NSW after breeding. Migrants generally depart between March and May, heading south to breed again in spring. There is some evidence of site fidelity for breeding. Although dusky woodswallows generally breed as solitary pairs or occasionally in small flocks, large flocks may form around abundant food sources in winter. Large flocks may also form before migration, which is often undertaken with other species. • Nest is an open, cup-shape, made of twigs, grass, fibrous rootlets and occasionally casuarina needles, and may be lined with grass, rootlets or infrequently horsehair, occasionally unlined. 	<ul style="list-style-type: none"> • Reduction in area, and increased isolation of patches of remnant woodland and open forest. • Ongoing degradation of habitat through the loss of dead timber, removal of coarse woody debris and other disturbances of the ground layer. • Aggressive exclusion by over abundant noisy miners. • Reduction in the availability of food resources due to overgrazing and loss of leaf litter. • Lack of knowledge within the community regarding the species and its habitat requirements. • Habitat degradation from invasion by weeds including exotic grasses and woody weeds, and inappropriate land uses.

Sources:

* — NSW National Parks and Wildlife Service (NPWS), 2002. *Threatened Species of the Upper North Coast of New South Wales - Fauna*. NSW National Parks and Wildlife Service, Coffs Harbour.

— Department of Environment and Heritage (DEH), 2019, NSW Threatened Species Profiles, <http://www.environment.nsw.gov.au/threatenedSpeciesApp/> (Accessed February 2020).

Key: V – Vulnerable; E - Endangered

s7.3 Test for determining whether proposed development or activity likely to significantly affect threatened species or ecological communities, or their habitats

(1) The following is to be taken into account for the purposes of determining whether a proposed development or activity is likely to significantly affect threatened species or ecological communities, or their habitats:

(a) in the case of a threatened species, whether the proposed development or activity is likely to have an adverse effect on the life cycle of the species such that a viable local population of the species is likely to be placed at risk of extinction,

Koala

A total of 15 koala records are recorded within 5km radius of the subject site between 1985 and 2019, with the majority of records recorded after 2006. It is likely a resident koala population existing in the local area and the site may form part of the home range for individual koalas or provide connectivity between occupied habitat in the surrounding areas.

The proposal is unlikely to have an adverse impact on the life cycle of Koalas such that the viable local population of the species is likely to be placed at risk of extinction for the following reasons:

- The proposal will result in the clearing of a relatively small area of koala habitat located directly adjacent to the Bruxner Highway. Up to 41 koala food trees are proposed to be removed. The trees are located within 9 m of the highway and the site survey indicated the trees to be cleared are not high use trees with no evidence of use by koalas (scats, scratch marks) observed.
- The surrounding landscape contains large areas (>10,000ha) of contiguous vegetation which includes areas of koala habitat which will not be impacted by the proposal and will continue to provide habitat for resident koalas in the locality.
- The proposal will not significantly increase habitat fragmentation or further restrict the movement of koalas across the landscape, therefore there will be no ongoing impacts on the ability of individuals to disperse, interact and breed.

Squirrel Glider, Greater Glider

One record of the Squirrel has been recorded within 5km radius of the subject site. This record comes from Sugarloaf State Forest which is located to the south of the subject site. A total of 16 records of the Greater Glider occur in BioNet, all within Sugarloaf State Forest. While the vegetation on site is contiguous and would allow the movement of both these species through the subject site the vegetation on and surrounding, the subject site is considered to be suitable for Squirrel Gliders, and of lower quality for Greater Gliders. The low density of suitable habitat trees which provide hollows for these species in the landscape surrounding the subject site and will limit occupancy.

The proposed activity is unlikely to have an adverse effect on the life cycle of these glider species such that a viable local population of the species is likely to be placed at risk of extinction for the following reasons:

- The proposal will result in the clearing of a relatively small areas habitat which includes the removal of up to 182 individual trees which are located directly adjacent to the Bruxner Highway.
- No sap feeding trees were recorded amongst the tree proposed for removal.
- Hollows in habitat trees proposed for removal will be reinstalled on site, so no hollows are lost as a result of the works.
- Pre-clearing surveys will be conducted, and a spotter catcher will be on site during clearing to ensure no individual animals are directly impacted.
- The proposal will result in a slight increase in habitat fragmentation due to the widening of the road corridor however the width of clearing is unlikely to inhibit the movement of gliders across the road way as the canopy separation will still allow movement for these species.

- The surrounding landscape contains large areas (>10,000ha) of contiguous vegetation which includes habitat which will not be impacted by the proposal and will continue to provide habitat for resident gliders in the locality.
- The proposal will result in a slight increase in habitat fragmentation due to the widening of the road corridor however the width of clearing is unlikely to inhibit the movement of gliders across the road way as the canopy separation will still allow movement for these species.

Dusky Woodswallow, Brown Treecreeper

BioNet records contain a total of 3 Dusky Woodswallow and 11 Brown Treecreeper records within a 5km radius of the subject site. All of these records come from Sugarloaf State Forest which is located to the south of the subject site.

The proposed activity is unlikely to have an adverse effect on the life cycle of these bird species such that a viable local population of the species is likely to be placed at risk of extinction for the following reasons:

- The proposal will result in the clearing of a relatively small area of habitat which includes the removal of up to 182 trees which are located directly adjacent to the Bruxner Highway. This is considered to be a small area relative to these species home ranges and will result in the loss of potential foraging habitat.
- Pre-clearing surveys will be conducted, and a spotter catcher will be on site during clearing to ensure no individual animals are directly impacted.
- Hollows on habitat trees proposed for removal will be reinstalled on site at a ratio of 1:2, so no hollows are lost as a result of the works.
- The proposal will not increase the fragmentation such that it would affect the ability of these species to move, disperse, interact and breed.

Hoary Wattled Bat, Greater Broad-nosed Bat

The proposed activity is unlikely to have an adverse effect on the life cycle of these microbat species such that a viable local population of the species is likely to be placed at risk of extinction for the following reasons:

- Hollows on habitat trees proposed for removal will be reinstalled on site, so no hollows are lost as a result of the works.
- The culverts present at the site were checked and at the time of the survey did not contain microbats, and no evidence of use was observed. These microbat species prefer tree hollows as roost sites, but some have been recorded using structures, and potentially could utilise culverts as roosting habitat. Pre-clearing surveys will be conducted, and if microbats are observed works will cease and plans will be developed to ensure no individual animals are directly impacted.
- The proposal will not increase the fragmentation such that it would affect the ability of these species to move, disperse, interact and breed.

Glossy Black Cockatoo

The proposed activity is unlikely to have an adverse effect on the life cycle of these microbat species such that a viable local population of the species is likely to be placed at risk of extinction for the following reasons:

- The proposed work will not remove any habitat trees which contain suitable hollows for this species. Therefore, the project will not reduce nesting and breeding resource.
- The proposed work will have a negligible reduction to foraging resources. No significant Forest Oak will be impacted, only early regrowth vegetation.
- The proposal will not increase the fragmentation such that it would affect the ability of these species to move, disperse, interact and breed.

(b) in the case of an endangered ecological community or critically endangered ecological community, whether the proposed development or activity:

(i) is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or

(ii) is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction,

Not applicable. Assessment does not relate to an endangered ecological community or critically endangered ecological community.

(c) in relation to the habitat of a threatened species or ecological community:

(i) the extent to which habitat is likely to be removed or modified as a result of the proposed development or activity, and

The proposal will result in the clearing of up to 182 trees are located within the road reserve and within 9m of the Bruxner Hwy.

(ii) whether an area of habitat is likely to become fragmented or isolated from other areas of habitat as a result of the proposed development or activity, and

The proposal will not increase habitat fragmentation or restrict the movement of species across the landscape as clearing will not significantly increase landscape fragmentation. Therefore, there will be no new or ongoing restriction to the ability of individuals to interact and breed as a result of the proposal.

(iii) the importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species or ecological community in the locality,

It is unlikely that the long-term survival of the subject species will be significantly impacted as a result of the disturbance to the vegetation given:

1. The relatively small area of habitat being impacted by the proposal and the large areas of available habitat in the broader surrounding area.
2. The habitat will not be fragmented or isolated such that it will restrict the movement of any of the subject species or limit access to areas of habitat.

(d) whether the proposed development or activity is likely to have an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly),

There are no declared areas of outstanding biodiversity value at or close to the site and the proposal is highly unlikely to have an indirect impact to these areas.

(e) whether the proposed development or activity is or is part of a key threatening process or is likely to increase the impact of a key threatening process.

A threatening process is a process that threatens, or may have the capability to threaten, the survival or evolutionary development of species, populations or ecological communities. The current list of key threatening processes (KTPs) and whether the Proposal constitutes any KTPs, is summarised in **Table B**.

Table B Impact of proposed works as a Key Threatening Process

Listed Key Threatening Processes (schedule 4 of the BC Act)	Is the development or activity characteristic of a threatening process?		
	Likely	Possible	Unlikely
Aggressive exclusion of birds by noisy miners (<i>Manorina melanocephala</i>)			✓
Alteration of habitat following subsidence due to longwall mining			✓
Alteration to the natural flow regimes of rivers and streams and their floodplains and wetlands			✓
Anthropogenic climate change			✓
Bush rock removal			✓
Clearing of native vegetation	✓		
Competition and grazing by the feral European rabbit (<i>Oryctolagus cuniculus</i>)			✓
Competition and habitat degradation by feral goats (<i>Capra hircus</i>)			✓

Listed Key Threatening Processes (schedule 4 of the BC Act)	Is the development or activity characteristic of a threatening process?		
	Likely	Possible	Unlikely
Competition from feral honey bees (<i>Apis mellifera</i>)			✓
Death or injury to marine species following capture in shark control programs on ocean beaches			✓
Entanglement in or ingestion of anthropogenic debris in marine and estuarine environments			✓
Forest Eucalypt dieback associated with over-abundant psyllids and bell miners			✓
High frequency fire resulting in the disruption of life cycle processes in plants and animals and loss of vegetation structure and composition			✓
Habitat degradation by feral horses			✓
Herbivory and environmental degradation caused by feral deer			✓
Importation of red imported fire ants (<i>Solenopsis invicta</i>)			✓
Infection by psittacine circoviral (beak and feather) disease affecting endangered psittacine species and populations			✓
Infection of frogs by amphibian chytrid causing the disease chytridiomycosis			✓
Infection of native plants by <i>Phytophthora cinnamomi</i>			✓
Introduction and Establishment of Exotic Rust Fungi of the order Pucciniales pathogenic on plants of the family Myrtaceae			✓
Introduction of the large earth bumblebee (<i>Bombus terrestris</i>)			✓
Invasion and establishment of exotic vines and scramblers			✓
Invasion and establishment of Scotch broom (<i>Cytisus scoparius</i>)			✓
Invasion and establishment of the cane toad (<i>Bufo marinus</i>)			✓
Invasion of native plant communities by African Olive <i>Olea europaea</i> L. <i>subsp. cuspidata</i>			✓
Invasion, establishment and spread of Lantana camara			✓
Invasion of native plant communities by <i>Chrysanthemoides monilifera</i> (bitou bush and boneseed)			✓
Invasion of native plant communities by exotic perennial grasses			✓
Invasion of the yellow crazy ant (<i>Anoplolepis gracilipes</i> (Fr. Smith) into NSW			✓
Loss and degradation of native plant and animal habitat by invasion of escaped garden plants, including aquatic plants			✓
Loss of hollow-bearing trees	✓		
Loss or degradation (or both) of sites used for hill-topping by butterflies			✓
Predation and hybridisation of feral dogs (<i>Canis lupus familiaris</i>)			✓
Predation by the European red fox (<i>Vulpes vulpes</i>)			✓
Predation by the feral cat (<i>Felis catus</i>)			✓
Predation by <i>Gambusia holbrooki</i> Girard, 1859 (plague minnow or mosquito fish)			✓
Predation by the ship rat (<i>Rattus rattus</i>) on Lord Howe Island			✓
Predation, habitat degradation, competition and disease transmission by feral pigs (<i>Sus scrofa</i>)			✓
Removal of dead wood and dead trees	✓		

The Proposal would likely contribute to an incremental and cumulative increase to the following Key Threatening Processes:

- Clearing of native vegetation
- Loss of hollow-bearing trees (x2)
- Removal of dead wood and dead trees (minor loss of woody debris, which will be relocated).

Conclusion:

It is the conclusion of this assessment that given the scale of the proposed works, the greater extent of available habitat in the locality and adoption of the proposed safeguards, the proposal is unlikely to result in a significant impact on the local occurrence of the subject species. Consequently, further consideration in the form of a Species Impact Statement or a Biodiversity Development Assessment Report is not required.