**Nomination form for listing species as critically endangered, endangered or vulnerable under the NSW *Biodiversity Conservation Act 2016***

Background

The purpose of this form is to provide a nomination to the NSW Threatened Species Scientific Committee (NSW TSSC) to list a threatened species in NSW as critically endangered, endangered or vulnerable under Schedule 1 of the NSW *Biodiversity Conservation Act 2016* (BC Act). This form may also be used to nominate a change in threat status for a species that is already listed as threatened in the BC Act (e.g. to nominate an endangered species to be listed as vulnerable or vice versa).

A species is eligible to be listed under the BC Act as a threatened species, if it is native to NSW or (for animals) is known to periodically or occasionally migrate to NSW. An animal or plant is native to NSW if it was established in Australia before European settlement and it occurs naturally in NSW.

Please also refer to the NSW TSSC Nomination Background Information document and the NSW TSSC Guidelines for information on the BC Act and criteria in the *Biodiversity Conservation Regulation 2017* (BC Regulation).

How to complete the nomination form

This nomination form consists of a series of questions to help you provide the information necessary to address the criteria in the BC Act and BC Regulation. Note, terms used in the nomination form and marked with asterisk (\*) are defined in section 5 of the NSW TSSC Nomination Background Information document.

The NSW TSSC recognises that completing a nomination form is demanding due to the volume and detail of information that is required to undertake an assessment. Nominators are encouraged to seek expert advice where appropriate to assist in the completion of the nomination form. Complete as much of the nomination form as you can. While the NSW TSSC will seek advice from other sources, any information not provided in the nomination may delay the assessment process.

Include references to published journal articles or other material that support the information you have provided. Unsupported or anecdotal information may not provide sufficient evidence to demonstrate the species meets the criteria for listing.

If there is insufficient information to enable details to be provided because of a lack of scientific data or analysis please include any information that is available or provide a statement next to the relevant question identifying that the data or analysis is not available.

Do not quote or provide information you have obtained from other people (usually referenced as personal communications) unless you have obtained the agreement of those people to use those statements in the nomination.

Indicate if you are providing information you have obtained on a confidential basis or data under a data licence that prohibits its release to other parties and if you have obtained permission to publicly release the confidential information or data.

Ensure you know and agree to how the Committee will use and share your nomination and the information contained in the nomination and any attachments including your personal details by signing the declaration section. If you request confidentiality please ensure you have not included your personal information, or any information that can be used to identify you, in the nomination or attachments.

**DO NOT DELETE ANY SECTION OF THE NOMINATION FORM INCLUDING SECTIONS LEFT BLANK**

Lodgement of nomination

The original, signed hard copy of the nomination can be posted or scanned and a pdf emailed to:

The Chairperson,

NSW Threatened Species Scientific Committee

PO Box 1967

HURSTVILLE BC NSW 1481

[Scientific.committee@environment.nsw.gov.au](mailto:Scientific.committee@environment.nsw.gov.au)

In addition to the signed copy, completed nominations can also include supporting documentation in WORD, Excel (may be used for data) or PDF formats.

**Nomination form** **for listing species under the NSW *Biodiversity Conservation Act 2016***

1. **General information**

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| 1.1 Scientific name and author of the species, or phrase name if undescribed (for the purposes of the BC Act subspecific taxa such as subspecies and varieties, are called species). | | | | | | |
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| 1.2 Common name(s) (if any) by which the species is known. | | | | | | |
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| 1.3 Is the species endemic to NSW (ie. is the species only found in NSW)? | | | | | | |
| Yes | | | | No, provide other states or territories | | |
| 1.4 Has the species been recorded in the following areas? | | | | | | |
| Lord Howe Island: | | | Australian Capital Territory: | | | |
| 1.5 Is the species currently listed under the NSW *Biodiversity Conservation Act 2016*? If so, in which threat category? | | | | | | |
| Critically Endangered | Endangered | | | Vulnerable | | Not Listed |
| 1.6 In which category is the species being nominated under the NSW *Biodiversity Conservation Act, 2016*? | | | | | | |
| Critically Endangered | | Endangered | | | Vulnerable | |
| 1.7 Is the species currently listed under the Commonwealth *Environment Protection Biodiversity Conservation Act, 1999* (EPBC)? If so, in which threat category? | | | | | | |
| Critically Endangered  Endangered | Vulnerable  Conservation Dependent | | | Extinct  Extinct in the wild | | Not Listed |
| 1.8 Is the species listed as threatened under legislation in other States or Territories in Australia?  If so, please list the jurisdiction and threat category? | | | | | | |
| Jurisdiction: | | | Threat category: | | | |
| Jurisdiction: | | | Threat category: | | | |
| Jurisdiction: | | | Threat category: | | | |
| Jurisdiction: | | | Threat category: | | | |

1. **Species information**

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| 2.1 Is the species conventionally accepted? (eg, for plants by the National Herbarium of NSW (see in PlantNET), the Council of Heads of Australasian Herbaria (CHAH) (the Australian Plant Census), for animals, the Australian Biological Resources Study (ABRS) (see the Australian Faunal Directory (AFD)), for fungi Index Fungorum (http://www.indexfungorum.org/Names/Names.asp) and/or the Mycobank Database (http://www.mycobank.org/), and/or in any other scientific literature or research).  If the species is conventionally accepted, provide a description of the species and the source of the description. |
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| 2.2 If the species is not conventionally accepted, please provide:   * a description of the species in a form suitable for publication in conventional scientific literature (attach the information to this form); information on the morphological features that distinguish this species from other species, how distinct is the species and is it likely to be misidentified as another species in field observations. * for an undescribed (new) species indicate in which scientific institution(s) specimens are housed and provide collection/reference numbers.  Institution (s): …………………………………………………………………………………..  Collection/reference number (s): ………………………………………………………………. |
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1. **Geographic Distribution**

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| 3.1 Describe the species’ distribution in Australia and attach a map of the known distribution and sites. For species not endemic to NSW please indicate the other areas where the species has been recorded (other states and territories of Australia, and other countries). |
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| |  | | --- | | 3.2 Detail the site, land tenure, survey date(s), and estimated number of individuals of the species. |  |  |  |  |  | | --- | --- | --- | --- | | Site (include latitude & longitude) | Land tenure | Date of survey, or record and its source | Number of individuals at site (mature\*, juveniles) | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  |   Any other relevant information for these sites |
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| 3.3 What is the species’ total estimated extent of occurrence\* (in km2)? (see NSW TSSC Nomination Background Information document) |
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| 3.4 What is the species’ total estimated area of occupancy\* (in km2)? (see NSW TSSC Nomination Background Information document) |
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| 3.5 How many locations\* do you consider the species occurs in and why?  Note: “The term ‘location’ defines a geographically or ecologically distinct area in which a single threatening event can rapidly affect all individuals of the taxon present.” (IUCN 2017) |
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| 3.6 Has the species been adequately surveyed? |
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1. **Species ecology/biology**

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| 4.1 Describe the species’ habitat. | |
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| 4.2 Provide a description of the life cycle of the species. If possible, provide details for the length of time for juveniles to mature, and the estimated generation length\*?  Note: Generation length is the average age of parents of the current cohort (i.e. newborn individuals in the population). |
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| * 1. 4.3 Provide any details on:   Fauna: key habitat requirements, breeding biology, diet, social biology, territoriality/home range.  Flora: Environmental requirements, evidence for ongoing recruitment or otherwise (including any information on pollination biology, seed bank dynamics or dormant life stages). |
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| * 1. 4.4 What is the dispersal mechanism and how far is the species likely to be dispersed? |
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| 4.5 How does the species respond to disturbance such as fire, floods, drought, storms? |
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| 4.6 Is there any other information regarding the species ecology or biology relevant to a conservation status assessment? |
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1. **Species Abundance**

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| 5.1 What is the number of mature individuals\*? Indicate if the number is based on observation, or if it is estimated or inferred (give lower and upper bounds). Where possible, estimate for each population or site (use the table above). Evidence needs to be provided on how the bounds were estimated or inferred. |
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| 5.2 Describe the population structure at known sites. Is there evidence of ongoing successful recruitment of new individuals? |
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1. **Extreme Fluctuations**

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| 6.1 Describe any evidence of extreme fluctuations\* in:  i. the species’ abundance in Australia and NSW; |
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| ii. the species’ geographic distribution\* in Australia and NSW. |
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| iii. the number of locations\* in Australia and NSW. |
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| iv. the number of populations\* in Australia and NSW. |
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1. **Threats**

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| 7.1 Identify past, current and future threats indicating whether they are actual or potential. For each threat describe:   1. how and where the threat impacts on this species 2. the effect of the threat so far (indicate whether it is known or suspected; does it only affect certain populations) 3. the expected effect of the threat in the future (is the threat only suspected; does it only affect certain populations). 4. any relevant Key Threatening Processes (KTP’s) as listed under the BC Act (KTPs are listed in Schedule 4 of the BC Act). | | | | |
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| 7.2 Where possible, provide information on threats for each occurrence/site (use the larger box below if needed). List all sites given in 3.3 (indicate if information is unavailable for certain sites). | | | | |
| Threat | Impact on the species and/or its habitat | Sites affected | Is it a past, current or future threat | Current management activities |
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| 7.3 Identify key management documentation for the species e.g. recovery plans, conservation plans, threat abatement plans etc. | | | | |
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1. **Fragmentation of the species population or habitat**

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| 8.1 Is there evidence of severe fragmentation\* of the species populations, geographic distribution or habitat? If so, specify the nature and degree of the isolation between populations, and species movement between populations or habitat patches. |
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| 8.2 Are there any processes or barriers (eg biological, abiotic, geographic, human induced) operating to reduce habitat patch size, increase habitat patch isolation or reduce species movement? |
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1. **Population Reduction and Continuing Decline**

For all estimates of reductions, the time period over which they were observed, estimated, inferred or suspected to have occurred, or are projected to occur in the future, should be specified. The assessment needs to be over a time frame appropriate to the life cycle and habitat characteristics of the species (i.e. 3 generations or 10 years, whichever is the longer). If possible, estimate the status of each population (e.g. in a table) and pattern of decline (linear, exponential or accelerated). Provide details for any assumptions made in inferring generation length, or rates of decline.

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| 9.1 Document any evidence and estimates of the magnitude of past, or projected future, or a combination of past and projected future, reductions based on any of the following:   1. the species’ abundance in Australia and NSW; | |
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| 1. the species’ geographic distribution\* in Australia and NSW (area of occupancy, extent of occurrence); | |
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| 1. the area, extent and/or quality of habitat in Australia and NSW; |
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| 1. actual or potential levels of exploitation of the species. |
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| 1. the effects of introduced taxa, hybridization, pathogens, pollutants, competitors or parasites. |
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| .9.2 Is there a quantitative analysis that allows estimation of the extinction risk of the species? If so, please provide details. |
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1. **Provisional listing of endangered or critically endangered species on an emergency basis**

The BC Act allows for for provisionally listing an endangered or critically endangered species on an emergency basis (see Division 4).

A species is eligible to be provisionally listed under this Division if, in the opinion of the NSW TSSC; (a) the species, (i) although not previously known to have existed in New South Wales, is believed on current knowledge to be native to New South Wales, or (ii) is subject to an immediate and significant threat of extinction, or (iii) was presumed to be extinct or extinct in the wild but has been rediscovered, AND (b) the species is not listed in Schedule 1 as an endangered or critically endangered species.

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| 10.1. Is the nominated species eligible to be provisionally listed on and emergency basis and I so why? |
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1. **Appendices and Information sources**

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| 11.1 If you have attached any information to this nomination please list or describe the information below. | |
| Appendix 1 |  |
| Appendix 2 |  |

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| --- |
| 11.2 Has this document been refereed? If so, indicate by whom. |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Postal Address | Telephone | Email |
|  |  |  |  |
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| 10.3 Document all written sources, published and unpublished. |
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**Privacy information**

The information you provide in this nomination form will be used by the NSW TSSC in the assessment to determine the conservation status and listing or delisting of threatened or extinct species, threatened populations and threatened or collapsed ecological communities.

The NSW TSSC may forward your nomination to other people, researchers and organisations to seek advice on the information provided and/or to obtain more information relevant to the assessment and management of the species.

The NSW Government has agreed with the Commonwealth and other state and territory governments to collaborate on national threatened species assessments using a common assessment method. Your nomination, including your details as nominator, may be provided to state and territory government agencies and scientific committees as part of this collaboration unless you have requested that your personal information be treated as confidential and you have not included your personal information in the nomination or attachments.

Individuals can access their personal information or request a correction of personal information held by the NSW TSSC by contacting the NSW TSSC’s Executive Officer.

The NSW TSSC has adopted the procedures set out in the DPE Cluster Privacy Management Plan (PMP). The PMP defines personal information and provides details about the privacy principles that the NSW TSSC follows when dealing with personal information.

1. **Nominator information -Declaration**

I declare that the information in this nomination and any attachments is true and correct to the best of my knowledge.

I permit the NSW Threatened Species Scientific Committee to provide a copy of the nomination and any attachments to other people or organisations for expert comment or advice.

I permit the NSW Threatened Species Scientific Committee to provide location details or data included in the nomination and any attachments to the Office of Environment and Heritage for inclusion in GIS databases managed by OEH, including publicly accessible databases.

I permit the NSW Threatened Species Scientific Committee to use, reproduce, publish, communicate and distribute information (see also 12.2) contained in the nomination and any attachments, in Committee publications including determinations, assessment reports, documents for public information and on the Committee’s website.

I permit the NSW Threatened Species Scientific Committee to provide a copy of the nomination and any attachments to Commonwealth, State and Territory government agencies and associated committees or other bodies undertaking threatened species and ecological community assessments for those agencies.

Signed: Date:

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| 12.1 Nominator’s details | | |
| Name |  | |
| Organisation |  | |
| Postal address (required information) |  | |
| Email |  | |
| Phone |  | |
| 12.2 Do you wish the information provided in the Nominator’s details section to be regarded as confidential? | |
| **Yes / No**  **If you have requested confidentiality please ensure you have not included your personal information, or any information that can be used to identify you, in the nomination or attachments.** | |

**Please note**: The Committee is subject to the provisions of the Government Information (Public Access) Act 2009 and access to the nomination and any accompanying information may be sought in accordance with that Act.

**References**

Australian Plant Census (APC) Council of Heads of Australasian Herbaria (CHAH). <https://biodiversity.org.au/nsl/services/APC>

Australian Faunal Directory (AFD) Australian Biological Resources Study. [Department of the Environment and Energy](http://www.environment.gov.au/). <https://biodiversity.org.au/afd/home>

Index Fungorum (<http://www.indexfungorum.org/Names/Names.asp>

IUCN (2017) IUCN Standards and Petitions Subcommittee. Guidelines for Using the IUCN Red List Categories and Criteria. Version 13. Prepared by the Standards and Petitions Subcommittee. <http://cmsdocs.s3.amazonaws.com/RedListGuidelines.pdf>

Mycobank Database (<http://www.mycobank.org/>),

NSW Biodiversity Conservation Act 2016. <https://www.legislation.nsw.gov.au/~/view/act/2016/63>

NSW Biodiversity Regulation 2017. https://www.legislation.nsw.gov.au/~/view/regulation/2017/432

NSW TSSC (2018) Nomination Background Information document. http://www.environment.nsw.gov.au/committee/HowToNominateASpeciesAsThreatened.htm

NSW TSSC (2018) Guidelines. <http://www.environment.nsw.gov.au/committee/scientificcommitteepublications.htm>

PlantNET (The NSW Plant Information Network System). Royal Botanic Gardens and Domain Trust, Sydney. http://plantnet.rbgsyd.nsw.gov.au