

Conservation Action Plan

Carrington Falls grevillea (*Grevillea rivularis*)

This plan has been prepared in accordance with the requirements of s.78C of the National Parks and Wildlife Regulation 2019 (Reg.) in relation to an Asset of Intergenerational Significance (AIS) as declared under s.153G of the *National Parks and Wildlife Act 1974*.

Site details

AIS site	AIS-E0-039
Site location	An area of 238 hectares in Budderoo National Park
NPWS contact	Assistant Project Officer Threatened Species, South Coast Branch

Environmental values

This table sets out the environmental values for which the land was listed as an AIS (Reg. 78C(3)(a)).

Identified value(s)	Value description
Important habitat for Carrington Falls grevillea	<p>Carrington Falls grevillea is a critically endangered prickly shrub that can grow up to 2.5 metres tall and 3 metres or more wide. Clusters of flowers form at the end of the shrubs branchlet, growing in a 'toothbrush' formation. The flower tubes are purple cream to mauve pink with the long style having a green tip. They occur in open heath or eucalypt woodland, mainly growing on moist creek-sides on sandstone. While the species has high regeneration rates from seed after disturbance, high seedling mortality limits recruitment into the adult population.</p> <p>The only known population of this species is in Budderoo National Park, confined to the Carrington Falls area on the upper catchment of the Kangaroo River west of Kiama.</p>

Key risks to environmental values

This table sets out the key risks to the environmental values of the land (Reg. 78C(3)(b)).

Key risk(s)	Description
Inappropriate fire regimes	Inappropriate fire frequency and intensity that kills plants and limits recruitment and recovery after fires, may lead to a decline or extinction of Carrington Falls grevillea population at the site.
Anthropogenic climate change	Changes to weather patterns and climatic conditions as a result of anthropogenic climate change that increases frequency and severity of fire, floods and drought conditions may exceed the adaptive capacity and reduce survivorship of Carrington Falls grevillea at the site. This risk is exacerbated by the small population size and extremely restricted distribution of the species at this site.
Disturbance	Authorised infrastructure maintenance activities (e.g., roadside vegetation management) that leads to degradation of habitat and damage to individuals by slashing and herbicide use.

Conservation activities

This table sets out the conservation activities required to:

1. Control, abate or mitigate the key risks and
2. maintain, restore and remediate the environmental values of the land (Reg. 78C(3)(c)).

Key risk(s)	Impacted site(s)	Conservation activities
Inappropriate fire regimes	All sites	<ul style="list-style-type: none"> • Develop guidance on the appropriate fire management for the habitat of the Carrington Falls grevillea within 12 months of the adoption of this plan and update as required. This guidance must provide for: <ul style="list-style-type: none"> - maintenance of an appropriate fire regime by developing and implementing a site-specific burn plan for the declared areas - implementation of any required fire protection and response measures in the declared areas - integration of site-specific requirements into NPWS and NSW Government bushfire planning, risk management and operational response arrangements • Implement fire management consistent with the guidance.

Key risk(s)	Impacted site(s)	Conservation activities
Disturbance	All sites	<ul style="list-style-type: none"> Undertake periodic reviews to identify whether infrastructure maintenance is having an adverse impact on Carrington Falls grevillea. If adverse impacts are observed, implement action to mitigate the impacts. This may include: <ul style="list-style-type: none"> upgrade/realignment of trails to avoid known plants installation of signage or more discrete marking systems to delineate exclusion areas to prevent slashing or herbicide use near sites. Implement guidance for staff, council and contractors as required, about appropriate maintenance practices that minimise impacts to the Carrington Falls grevillea population and habitat.
All risks	All sites	<ul style="list-style-type: none"> Maintain ex-situ living collection and seedbank from a genetically representative sample of the population as well as any relevant symbionts (e.g., mycorrhizal fungi). If required, augment existing population or establish a new wild population with ex-situ material.

Other land management activities

Within the declared land there are existing assets and infrastructure of NPWS and other external service providers, including public utilities.

Maintenance operations (including inspection, emergency works and routine and standard maintenance) that are exempt development in accordance with the *Environmental Planning and Assessment Act 1979*, and which are performed on and around existing assets and infrastructure, are authorised under this conservation action plan (CAP) provided such operations are undertaken in a manner that aims to minimise the risk to the declared environmental values of the land and with any other required consents or approvals.

All maintenance operations on the declared land are to be undertaken in accordance with this CAP.

Measuring and reporting

This table sets out the requirements for measuring and reporting on health and condition (Reg. 78C(3)(d)).

Attribute	Metric	Method
Health and condition of the Carrington Falls grevillea population	Population count	Design, and implement every five years, monitoring to generate a count of the number of mature plants and seedlings in the population.
	Area of occupancy	Design, and implement every five years an assessment to calculate the area of occupancy of the Carrington Falls grevillea at the site.

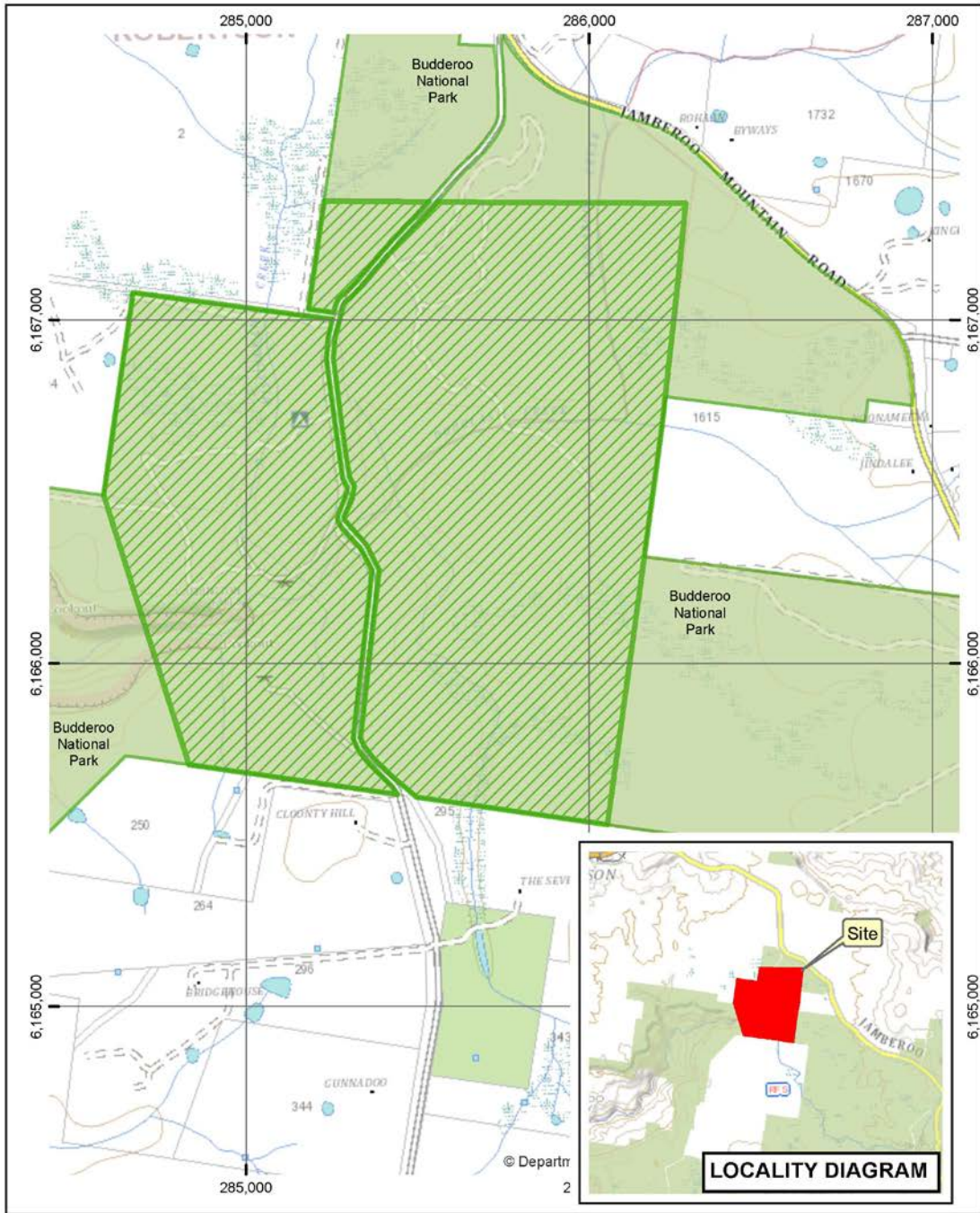
A report on the health and condition of the value for which this AIS was declared will be prepared and published on the Department of Planning and Environment website: www.environment.nsw.gov.au. The report will summarise the baseline and current health and condition of the values of the declared land and its overall trajectory.

Evaluation of conservation action plans



This CAP will be amended or replaced as new information becomes available that helps improve our management of the identified asset (Reg. 78H).

The Secretary must appoint a scientist, or a panel of scientists, to conduct a review, as soon as possible after the period of five years from the first approval of a CAP, to examine whether CAPs have been effectively implemented (Reg. 78J(1)).

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Legend



-  Declared Land
-  NPWS Estate

AIS-E0-039
Asset of
Intergenerational Significance
Carrington Falls grevillea
(*Grevillea rivularis*)
Budderoo National Park

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0 0.15 0.3 0.45 km

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Date prepared	August 2022
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Approved by	Atticus Fleming, Acting Coordinator General, Environment and Heritage
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