

Conservation Action Plan

Caley's grevillea (*Grevillea caleyi*)

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-ES-123, AIS-ES-124, AIS-ES-125, AIS-ES-126, AIS-ES-127
Site location	An area of 17 hectares in Ku-ring-gai Chase National Park An area of 17 hectares in Garigal National Park
NPWS contact	Team Leader Conservation, Greater Sydney 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 Caley's grevillea	The site contains the habitat for Caley's grevillea, which is a critically endangered shrub that grows to a height and width of four metres. It generally occurs on ridgetops with an elevation of 170 to 240 metres and grows in association with laterite soils and predominantly in the Duffy's Forest vegetation community.

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	Caley's grevillea requires fire for germination of the seedbank. However, high intensity or high frequency fires may cause mortality of sub-adult plants and prevent recruitment resulting in increased risk of population decline at the site. This risk is exacerbated by the fragmented distribution of the species and small population size at the known sites.
Disturbance	Damage to individual plants and habitat through trampling and compaction by unauthorised visitor access and use of the site. This risk is exacerbated by the fragmented distribution of the species and small population size at the known sites.
Weeds	Habitat degradation by invasion of weeds to the extent that recruitment or establishment of plants is prevented.

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 Caley's grevillea by 30 June 2022 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.
Disturbance	All sites	<ul style="list-style-type: none"> • Install signage or protective infrastructure, such as armoured surfaces, on tracks as required, to reduce the likelihood of unauthorised visitor use and/or to avoid significant impacts from authorised use. • Rehabilitate areas affected by unauthorised tracks by 30 June 2025. • Relocate seedlings growing adjacent to authorised tracks.
Weeds	All sites	<ul style="list-style-type: none"> • Remove weed species that negatively impact on areas occupied by the Caley's grevillea, such as preventing the recruitment or establishment of plants, by targeted application of physical and chemical weed control.
All risks	All sites	<ul style="list-style-type: none"> • Collect and store seed from a genetically representative sample of the population for storage at the PlantBank in Mount Annan to maintain an ex-situ seedbank.

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 taken 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 Caley's grevillea population	Population estimate: number of plants and seedlings	Design, and undertake every five years, monitoring designed to generate an estimate of the number of: (1) mature plants; and (2) seedlings. Design monitoring to count seedlings after fire events and undertake the monitoring within 6-12 months of any fire events at the sites.
	Area of occupancy	Design and undertake an annual assessment to calculate the area of occupancy of Caley's grevillea.

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, [Environment, Energy and Science website](#). 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 assets (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)).

Date prepared	October 2021
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Approved by	Atticus Fleming - Deputy Secretary NPWS
Due for review	February 2027

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