

CROOBYAR ROAD-SMARTS BRIDGE OVER CROOBYAR CREEK CROOBYAR

Review of Environmental Factors REF

- REF shall be published on the NSW Planning Portal

Shoalhaven City Council | August 24

Acknowledgement

Shoalhaven City Council (SCC) acknowledges the ancestral custodians of the territory where the proposed activity is located. We express our reverence for their past and present elders and celebrate the cultural diversity of Aboriginal communities, along with their enduring heritage and ties to the lands and waters of New South Wales. The routes we utilize today, encompassing railways, roadways, bridges, and water crossings, often trace the historical song lines, trade paths, and ceremonial routes in the Country, which the first peoples of our nation have followed for millennia. Shoalhaven City Council is dedicated to honouring the cultural and spiritual bonds of Aboriginal people to the land, waterways, and oceans, as well as their significant contributions to our society.

Document controls

Document status

Document status	Date	Prepared by	Reviewed by
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Final 1	July 24	Sandeep K Salvala	Joseph Saba

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1. Introduction

Croobyar Road – Smarts Bridge replacement project is currently under the **Fixing Country Bridges (FCB)** round 2B bridge replacement program. Shoalhaven City Council's 23/24 capital works program has committed to the delivery of the bridge project as part of Transport for NSW (TfNSW) grant funded, Fixing Country Bridges Program (Round 2B).

The Croobyar Road - Smarts Bridge in Croobyar, NSW, is currently in a deteriorated state and is in urgent need of replacement, which is a crucial part of the Fixing Country Bridges Program. Through site inspections, it has become evident that there is extensive damage, particularly affecting the timber structure of the bridge, further highlighting the immediate necessity for its replacement.

In addition to replacing the bridge, this project encompasses establishing a temporary road alternative to maintain uninterrupted access for road users during the bridge replacement. Three large trees are proposed for removal. All necessary approvals for the removal of the trees have been obtained.

Furthermore, it encompasses the upgrading or replacement of associated infrastructure, including pavement, head and wing walls, rock protection, and traffic signs in the nearby vicinity.

GPS coordinates are as follows:

• 35°19'27.4"S 150°21'59.8"E

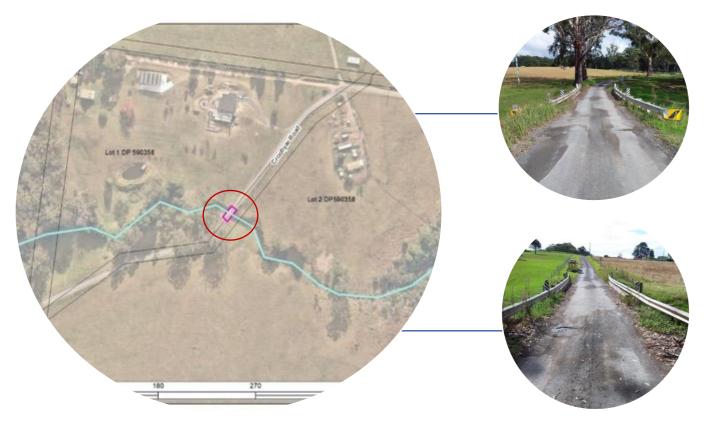


Figure 1 - Study Area

A basic Aboriginal Heritage Information Management System (AHIMS) search was carried out and did not identify any Aboriginal sites in or near the extent of the proposed works.

The findings of the REF considered when assessing:

- Whether it's likely for the proposal to have a significant impact on the environment and the necessity for an environmental impact statement to be prepared and approval to be sought from the Minister for Planning and Public Spaces under Division 5.2 of the EP&A Act.
- The importance of any impact on threatened species as defined by the NSW Biodiversity and Conservation Act 2016 (BC Act) and/or NSW Fisheries Management Act 1994 (FM Act), in section 1.7 of the EP&A Act and therefore the requirement for a Species Impact Statement or a Biodiversity Development Assessment Report.
- The potential for the proposal to significantly impact a matter of national environmental significance, including nationally listed threatened biodiversity matters, or the environment of Commonwealth land. Where a significant impact is considered likely on nationally listed biodiversity matters, either the proposal must be reconsidered, or a Project REF must be prepared.
- Whether the REF requires publication as per Section 171 of the NSW Environmental Planning and Assessment Regulation 2021 (EP&A Regulation)

The environmental assessment and determination of the proposal has been undertaken in accordance with Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act). For this proposal, Shoalhaven City Council is both a public authority proponent (EP&A Act s5.3) and the determining authority (EP&A Act s5.1). The REF has been prepared in accordance with Clause 171 of the EP&A Regulation (2021).

2. The proposal

2.1 Description

2.1.1 Proposal location and details

Project Name	Croobyar Road-Smarts Bridge over Croobyar Creek-Croobyar
Proponent (Council Name)	Shoalhaven City Council
Determining authority	Shoalhaven City Council
Project Manager	Joseph Saba
Position	Project manager
Contact Details	0478 415 957

2.1.2 Description of proposed work

The proposal locality is shown below:

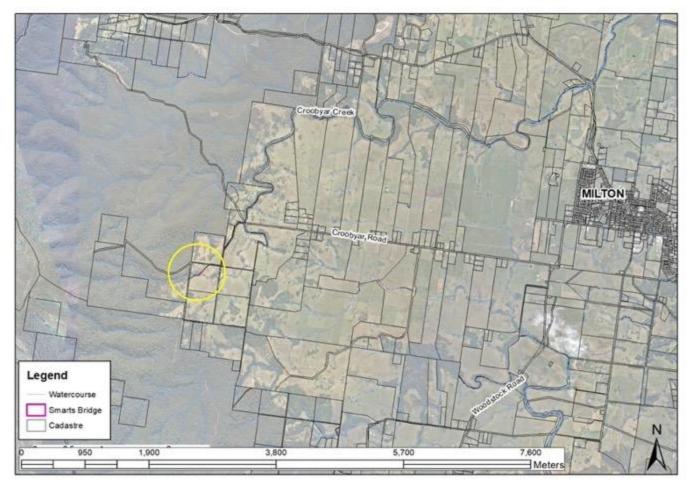


Figure 2: Proposal Location

2.1.3 Objectives of works

Shoalhaven City Council is seeking appropriate design and construction for a new bridge construction to replace the old, deteriorated bridge with improved alignment to enhance the safety for all road users.

The Council is seeking to replace the existing Smarts Bridge over Croobyar Creek along Croobyar Road-Croobyar by constructing the new bridge and all other adjoint infrastructure, such as but not restricted to, pavement, temporary access, abutments, rock protection, traffic signs in the vicinity of the Construction.

The key deliverables of this project shall include (but not limited to), the following works:

- 1) Providing temporary access to road users through the construction of a temporary road whilst works are conducted on the existing bridge.
- 2) Road design for new alignments within the road reserve.
- 3) Minor alignment adjustments such as the widening of the road area to enhance the road safety for all road users within the study area.
 - a) New road lane capacity with adequate shoulder width.
 - b) Provision of new drainage.
 - c) Provide safer approaching roads.
 - d) Reduce the vertical slopes and sharp bends of the road segment.
 - e) Removal of three trees.

2.1.4 Temporary Road Access Plan

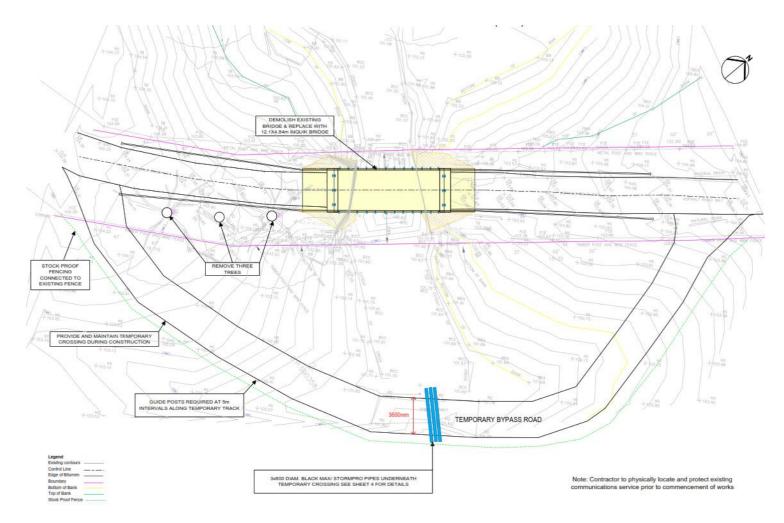
As a component of the bridge replacement project, a temporary road is essential to facilitate public vehicle access and minimise disruptions to the community. To address this need, a carefully designed temporary road access plan has been formulated and appended. The temporary road would be removed when the new bridge is operating.

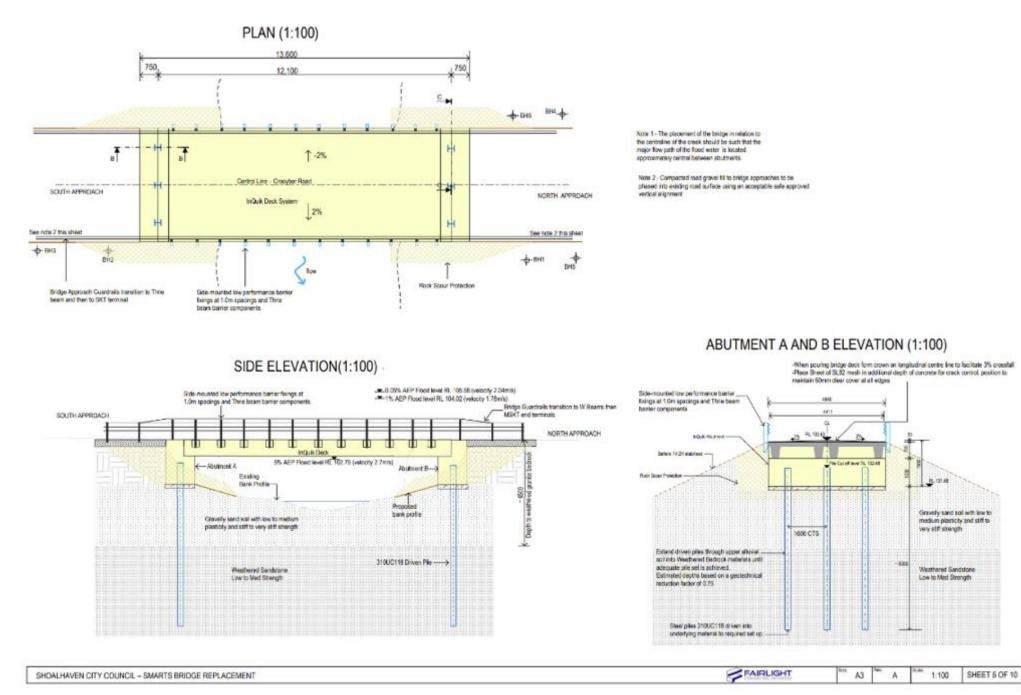
In a dedicated effort to prioritise the well-being of aquatic ecosystems, a fish passage must be integrated within the design of the temporary road associated with the construction project.

This measure aims to ensure the safety and unimpeded movement of fish during the construction phase, minimizing any potential adverse effects on their natural habitat.

By incorporating fish-friendly design elements, such as properly sized pipes for fish passage and strategic placement of the passage, the project aligns with sustainable practices and environmental consciousness. In addition, rock with no fines would be used and geofabric separation layers to prevent fines entering the waterway and maintain the water quality of the creek.

2.1.5 Concept for Temporary Road Access Plan



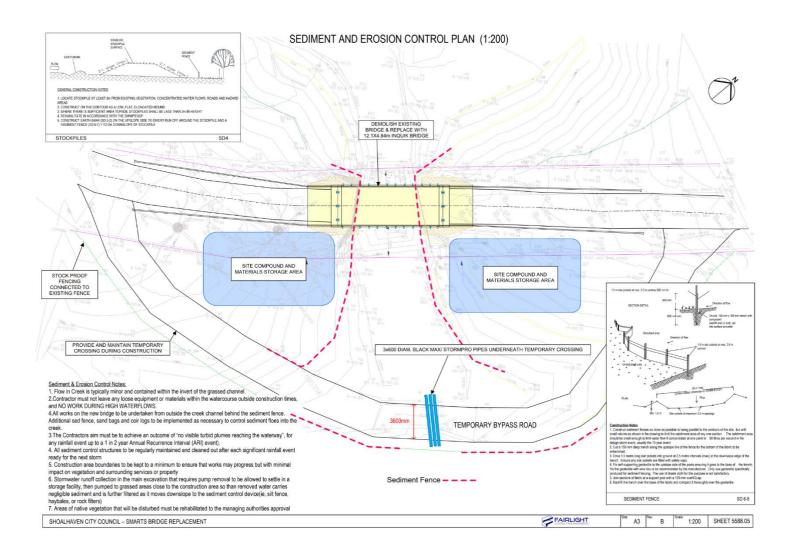


2.1.6 Tree markings and Removal of Three Trees



2.1.7 Ancillary facilities

Ancillary facilities	
Will the proposal require the use or installation of a compound site?	Yes
Will the proposal require the use or installation of a stockpile site?	Yes
will the proposal require the use of installation of a stockpile site:	165



2.1.8 Proposed date of commencement

Construction of the proposal is anticipated to commence in <u>August 2024</u>.

Croobyar Road - Smarts Bridge will operate with Road Works Signs with a speed limit of 40 km/hr.

2.1.9 Estimated length of construction period

The proposal would take about 8 to 10 weeks to complete, subject to the inclement weather. Construction activities would be undertaken within the following standard hours:

- Monday to Friday: 7am to 6pm
- Saturdays 8am to 1pm
- Sunday and Public Holidays: only if critically required and approved by the principal

2.2 Need and Options

2.2.1 Justification for the proposal

The proposal has been developed in response to the need to provide safety for residents and road users and continuity of road access.

2.3 Statutory and planning framework

2.3.1 State Environmental Planning Policy (Transport and Infrastructure) 2021

The State Environmental Planning Policy (Transport and Infrastructure) 2021 (TISEPP) aims to facilitate the delivery of infrastructure across NSW by identifying whether certain types of infrastructure require consent, can be carried out without consent or are exempt development.

Pursuant to clause 2.109 of the SEPP, development for the purpose of a road or road infrastructure facilities may be carried out by or on behalf of a public authority without consent on any land. The proposed works are therefore assessed under Part 5 of the EP&A Act, *i.e.* the preparation and determination of an REF. This includes "*temporary roads that are used solely during road construction*" (S.109(3)(a)(v).

2.3.2 The Fisheries Management Act 1994

The activity of constructing waterway crossings would require approval under Part 7 (Division 3) of the Fisheries Management Act 1994 (FM Act) to dredge and/or reclaim. Dredging works may be required to demolish the existing bridge and construct the replacement bridge.

Reclamation works could include the construction and replacement of abutments for bridges, placement of scour protection, creation of in-stream construction pads to access the works or the placement of material in a waterway to construct temporary road waterway crossings.

Generally, a local government authority or individual will require a permit to carry out any dredging or reclamation work unless the works are authorised by another public authority (other than a local government authority). Section 200 of the Act requires that a local government authority obtain a permit from the Minister for Fisheries before it carries out or authorises the carrying out of any such works and must consider any matters raised by the Minister in the Permit.

Environmental assessment and planning for any new road works, waterway crossings or maintenance programs for existing structures requires the completion of an '7-part test' (Section 221ZV of the FM Act). The '7-part test' (a series of seven questions) must be completed in order to assess the significance of the impact of the proposed works on listed threatened species, populations or ecological communities. If the '7-part test' indicates a significant impact(s) then a Species Impact Statement (SIS) may also be required. Further information on threatened species is provided on NSW DPI website at <u>www.dpi.nsw.gov.au</u>.

A permit may also be required under s.219 of the FM Act for any works, which may result in the temporary or permanent blockage of fish passage within a waterway. Such blockages can include waterways sediment and erosion control and bunding and dewatering works during construction of crossings.

Croobyar Creek at the location of the proposed activity is "key fish habitat" for the purposes of the FM Act and will require a dredging and reclamation permit for works relating to the existing bridge and the temporary road crossing (Section 200 of the FM Act). If blockage to fish passage is required, including temporary obstruction in the waterway) a permit (Section 219 of the FM Act) would also need to be sought prior to the commencement of works.

With regard to the *Policy and Guidelines for Fish Habitat Conservation and Management*¹ Croobyar Creek at the proposed activity location is "*Type 2 – Moderately sensitive key fish habitat*" and "*Class 2 Moderate Key Fish Habitat*". The replacement of the bridge with a similarly size bridge structure is the preferred waterway crossing structure for such waterways.

https://www.dpi.nsw.gov.au/ data/assets/pdf file/0008/634697/Fish-friendly-waterway-crossings Policyand-guidelines_FN-1181.pdf

Safeguards

Safeguards to be implemented are:

- F1. Implementing best practices for sediment control.
- F3. Using fish-friendly construction methods.
- F4. A Fisheries Permit for dredging and reclamation shall be obtained prior to the commencement of works.

2.4 Environmental Planning and Assessment Act 1979

The *Environmental Planning and Assessment Act 1979* (EP&A Act) and the Environmental Planning and Assessment Regulation 2021 (EP&A Regulation) provide the framework for development and environmental assessment in NSW.

As council is the proponent, the works have been assessed under Part 5 of the EP&A Act. Accordingly, Council must satisfy Sections 5.5, 5.6 and 5.7 of that Act by examining, and fully considering possible, all matters which are likely to affect the environment. This REF is intended to address Council's compliance with the EP&A Act including Sections 5.5, 5.6 and 5.7 and the requirements of clause 171 of the EP&A Regulation 2021. Environmental Planning Instruments made under the EP&A Act 1979 may also be relevant and are addressed in Section 4 of this REF.

2.4.1 Local Environmental Plan

The proposal activity is located within the Shoalhaven City Council local government area (LGA). The relevant Local Environmental Plan (LEP) for the proposal is the Shoalhaven LEP 2014. However, the provisions of SEPP (Transport and Infrastructure) override development consent requirements of the relevant LEPs and development consent from Shoalhaven City Council is not required.

2.5 Community and agency consultation

2.5.1 SEPP (Transport and Infrastructure) consultation

Part 2.2 of the SEPP contains provisions for public authorities to consult with local council and other public authorities prior to the commencement of certain types of development. This detailed below:

f SEPP
No
No
No
No
Yes

Will the works involve more than a minor or inconsequential excavation of a road or adjacent footpath for which council is the roads authority and responsible for maintenance?	Yes
Council is the proponent of the road works.	
Is there a local heritage item (that is not also a state heritage item) or a heritage conservation area in the study area for the works? If yes, does a heritage assessment indicate that the potential impacts to the heritage significance of the item/area are more than minor or inconsequential?	No
Is the proposal within the coastal vulnerability area and is it inconsistent with a certified coastal management program applying to that land?	No
Note: See interactive map here: <u>Coastal management mapping (nsw.gov.au)</u> . Note the coastal vulnerability area has not yet been mapped.	
Note: a certified coastal zone management plan is taken to be a certified coastal management program.	
Are the works located on flood liable land? If so, will the works change flooding patterns to more than a minor extent?	No

Is consultation with a public authority (other than Council) required under sections 2.10, 2.13 and 2.15 of SEPP (Transport and Infrastructure)?		
Are the works located on flood liable land? (To any extent) (SEPP(Infrastructure) s2.13) If so, do the works comprise more than minor alterations or additions to, or the demolition of, a building, emergency works or routine maintenance?	No	
Note: Flood liable land means land that is susceptible to flooding by the probable maximum flood event, identified in accordance with the principles set out in the manual entitled <i>Floodplain Development Manual: the management of flood liable</i> land published by the New South Wales Government.		
Are the works adjacent to a national park, nature reserve or other area reserved under the <i>National Parks and Wildlife Act 1974</i> , or on land acquired under that Act?	No	
Are the works on land in Zone E1 National Parks and Nature Reserves or in a land use zone equivalent to that zone?	No	
Are the works for the purpose of residential development, an educational establishment, a health services facility, a correctional facility or group home in bush fire prone land?	No	
Would the works increase the amount of artificial light in the night sky and that is on land within the dark sky region as identified on the dark sky region map? (Note: the dark sky region is within 200 kilometers of the Siding Spring Observatory)	No	

Is consultation with a public authority (other than Council) required under sections 2.10, 2.13 and 2.15 of SEPP (Infrastructure)?

Are the works on buffer land around the defence communications facility near Morundah? (Note: refer to Defence Communications Facility Buffer Map referred to in clause 5.15 of Lockhart LEP 2012, Narrandera LEP 2013 and Urana LEP 2011).	No
Are the works on land in a mine subsidence district within the meaning of the <i>Mine Subsidence Compensation Act 1961</i> ?	No
Are the Works on Creek require Fisheries permit to safeguard the aquatic life according to <i>The Fisheries Management Act 1994</i>	Yes
SCC will apply for a fisheries permit and gain approval prior to starting the works.	
More information about this can be found at <u>Activities requiring a permit</u> (<u>nsw.gov.au</u>); and key fish habitat can be obtained from the Fisheries spatial data portal Geocortex Viewer for HTML5 (nsw.gov.au).	

2.5.2 Other agency and community consultation

Variable message signs would be utilised prior to and during the construction of the proposal to inform road users of the planned works, potential delays, and other changes.

Noise impacted receivers would also be consulted where necessary, see Section 3.3.

2.5.3 Ongoing community consultation

Consultation would also be carried out with the residents and property owners who traverse the bridge to access their property (i.e. south of the bridge), including National Parks and Wildlife Service, located near the proposal, including a notification of the commencement of construction work. Notification would be given using variable message signs, letterbox drop (or equivalent), website / social media or a combination to distribute information detailing work activities, time periods, closed facilities, impacts and safeguards.

2.5.4 Project Meeting Minutes with Residents for Temporary Access

On-site meeting 30/11/2023 11:15am - 12:00pm.

Croobyar Road, Croobyar

Meeting Attendees

• Ken Smart, Jamie Smart, Paul McKenzie, Joseph Saba.

Achievements for period

• Ken and Jamie expressed satisfaction with the provision of temporary access through their property (Lot 2 DP 590358) during the construction phase. Ken, acting on behalf of his son Scott as well, confirms their unanimous acceptance of the temporary access arrangement.

- While approving the removal of three trees as planned, they specifically request the preservation of the turpentine tree (the third tree, farthest from the bridge) if feasible.
- Although desiring negotiations on certain points, they emphasize their support for the access regardless of the resolution of those negotiation points.

Project Status

• Granted temporary use of their land for transportation access on a temporary basis.

Points raised on previous experience

Shin's Insights from previous bridge works:

- Based on experience with other bridge replacement projects, I would recommend Joseph to consider adding a provision in the scope within the Request for Tender (RFT). This provision should state that Council staff and/or the landowner have the first right of refusal to select any timber members from the old bridge. The selected timbers should then be delivered to a site specified by the council or stored safely on site. All other non-chosen bridge components should be disposed of by the contractor.
- It's crucial to specify in the RFT how the chosen timbers should be stored and/or transported and delivered to prevent issues encountered in previous bridge projects. For instance, detailing the size requirements and ensuring they are not cut up into unusable sizes during delivery.
- To avoid past mistakes, it would be beneficial to include explicit instructions on proper storage. For instance, in a previous bridge job, timber components were delivered without adequate protection, leading to exposure and compromising their condition. Specify requirements such as using packers to lift components off the ground, providing tarps for coverage, and ensuring proper storage instructions are communicated to the contractor.
- This proactive approach will help ensure the preservation of the old bridge components and avoid any disappointments or compromises in their condition during the project.

Negotiation requests

- They (Smarts) have expressed the desire not to be held liable for any incidents occurring on the temporary access route, and we have assured them that this aligns with Section 175(8) of the Roads Act. During its use for temporary road provision, the land is considered a public road under this Act, with exceptions for Parts 2, 3, 4, and 10.
- In their request, they seek to retain any timber from the existing bridge and the trees slated for removal. We believe this is a reasonable compensation measure for the use of their property
- They have specifically requested the installation of a stock-proof fence along the temporary access route, and we have confirmed that this will be implemented.
- Expressing a desire for a plaque on the new bridge bearing the name "Smarts Bridge," they are amenable to including a tagline such as 'proudly funded by NSW government' if deemed necessary.

Action points	Person Responsible	Due Date
Need to Construct Temporary Road Access Necessary Land got allocated.	Allocate to Joseph Saba	Till the Bridge Construction.

3. Description of the Environment

This section provides a detailed description of the potential environmental impacts associated with the construction and operation of the proposal. All aspects of the environmental potentially impacted upon by the proposal are considered. This includes consideration of the factors specified in the *Guidelines for Division 5.1 Assessments* (DPE, 2022) and section 171 of the Environmental Planning and Assessment Regulation 2021. The matters of national environmental significance under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* are also considered in section 5. Site-specific safeguards are provided to ameliorate the identified potential impacts.

3.1 Soil

3.1.1 ACID SULPHATE SOILS:

Acid Sulphate Soils (ASS) are a type of soil that poses significant environmental and engineering challenges due to their unique chemical composition and properties. These soils contain high concentrations of iron sulphide minerals, primarily pyrite (FeS2), which can undergo oxidation when exposed to air and water. This oxidation process leads to the production of sulphuric acid, which can result in soil acidification and the release of harmful substances into the environment.

Formation of Acid Sulphate Soils:

The formation of acid sulphate soils typically occurs in waterlogged or water-saturated environments, such as coastal plains, estuaries, and wetlands. Organic-rich sediments, along with iron and sulphur compounds, accumulate in these areas over time. Under anaerobic (low oxygen) conditions, sulphate-reducing bacteria decompose organic matter, releasing hydrogen sulphide gas (H2S). When these sediments are exposed to oxygen, such as through drainage or excavation activities, the iron sulphide minerals react with oxygen and water to form sulphuric acid.

Characteristics of Acid Sulphate Soils:

High concentrations of iron sulphide minerals, particularly pyrite and marcasite.

Low pH (acidic), often below 4, due to the presence of sulphuric acid.

Elevated levels of sulphate, aluminium, iron, and other heavy metals.

Poor soil structure and fertility, leading to reduced agricultural productivity.

Typically found in coastal areas, floodplains, and areas with fluctuating water levels.

Effects of Acid Sulphate Soils:

Soil Acidification:

Acid sulphate soils have low pH levels, which can inhibit plant growth and reduce soil fertility. Soil acidification can also impact nutrient availability and soil structure, leading to decreased agricultural productivity.

Water Pollution:

The release of sulphuric acid and heavy metals from acid sulphate soils can contaminate surface and groundwater resources, posing risks to aquatic ecosystems and human health. Acidic drainage can lower the pH of water bodies, affecting aquatic organisms and biodiversity.

Corrosion of Infrastructure:

Acidic drainage from acid sulphate soils can corrode and degrade infrastructure such as bridges, roads, and buildings. Concrete and metal structures are particularly susceptible to corrosion in acidic environments, leading to structural damage and increased maintenance costs.

Environmental Degradation:

Acid sulphate soils can contribute to the degradation of sensitive habitats such as wetlands, mangroves, and estuaries. Soil acidification and contamination can harm plant and animal species, disrupt ecosystems, and threaten biodiversity.

Human Health Risks:

Exposure to acidic drainage and contaminated water from acid sulphate soils can pose risks to human health, including skin irritation, respiratory problems, and potential ingestion of heavy metals. Communities living in or near areas affected by acid sulphate soils may be vulnerable to these health impacts.

In conclusion, acid sulphate soils represent a significant environmental and engineering challenge, with potential impacts on soil and water quality, ecosystem health, infrastructure integrity, agricultural productivity, and human well-being. Effective management and mitigation strategies are essential to address these risks and protect both the environment and communities living in affected areas.

ACID SULPHATES TEST:

Based on the provided information, the soil sample from borehole BH1 at a depth range of 0.2-0.5 meters below the ground surface level exhibits chemical characteristics that suggest low-risk conditions in terms of acid sulphate levels. Here's the analysis:

Borehole BH1:

- Depth Range: 0.2-0.5 meters
- Soil Condition: B
- Electrical Conductivity (EC): 41 ds/m
- pH: 5.1
- Chloride: < 10 mg/kg
- Sulphate: < 10 mg/kg</p>
- Moisture Content: 8%
- Soil Description: Silty Clay

The soil condition classification as "B" indicates low permeability soils and all soils above groundwater. According to the Australian Standard AS2159 - 2009, the condition leading to non-aggressive conditions may be adopted for such soil conditions.

Furthermore, the low sulphate levels (both chloride and sulphate are less than 10 mg/kg) and the nearneutral pH value of 5.1 suggest minimal risk of acid sulphate formation. Additionally, the moisture content of 8% is relatively low, which further reduces the likelihood of acid sulphate generation.

In conclusion, based on the available information and the assessment criteria provided, the soil conditions in borehole BH1 are likely to be low-risk in terms of acid sulphate levels. However, it's important to note that a comprehensive analysis would require additional data and consideration of other factors such as site-specific conditions and regulatory requirements.

GEOTECHNICAL TEST RESUTS:

Please Find attached Geotechnical test results <u>RG726-1-GR-1-1 Croobyar Rd Report Rev01 (1).pdf</u>

Description of existing environmental and potential impacts

Are there any known occurrences of salinity or acid sulphate soils in the area? Acid-Sulphates Low-Level Level of Risk:

Based on the available information and the assessment criteria provided, the soil conditions in borehole BH1 are likely to be very low-risk in terms of acid sulphate levels.	
Does the proposal involve the disturbance of large areas (e.g., >2ha) forearthworks?	No
Does the site have constraints for erosion and sedimentation controls such as steep gradients or narrow corridors?	No
Are there any sensitive receiving environments that are in or near by the likely proposal area or that would likely receive stormwater discharge from the proposal?	No
Sensitive receiving environments include (but are not limited to) wetlands, state forests, national parks, nature reserves, rainforests, drinking water catchments).	
Is there any evidence within or nearby the likely footprint of potential contamination?	No
Is the likely proposal footprint in or nearby highly sloping landform?	No
Are the proposals likely to result in more than 2.5ha (area) of exposed soil?	No

Description of existing environmental and potential impacts

Impact to soil and landscape would primarily result from earthworks associated with excavation and ground vegetation removal. Sediment could also be generated during rainfall and storm events from works including site set up, transportation of soil and demobilization. The potential impacts from erosion and sedimentation would be minimized through the construction methodology and implementation of erosion and sediment controls. The implementation of the safeguards outlined below would reduce the risks to soils.

Safeguards

Safeguards to be implemented are:

- E1. Erosion and sediment control measures are to be implemented and maintained to:
 - a. Prevent sediment moving off-site and sediment laden water entering any water course, drainage lines, or drain inlets
 - b. Reduce water velocity and capture sediment on site
 - c. Minimise the amount of material transported from site to surrounding pavement surfaces
 - d. Divert clean water around the site.
- E2. Erosion and sedimentation controls are to be checked and maintained on a regular basis (including clearing of sediment from behind barriers) and records kept and provided on request
- E3. Erosion and sediment control measures are not to be removed until the works are complete, and areas are stabilised
- E4. Work areas are to be stabilised progressively during the works
- E5. A progressive erosion and sediment control plan is to be prepared for the works.

3.2 Waterways and water quality

Description of existing environment and potential impacts	
Is the proposal located within, adjacent to or near a waterway?	Yes
Is the location known to flood or prone to water logging?	Yes

Description of existing environment and potential impacts	
Is the proposal located within or immediately adjacent to the area managed by Sydney Catchment Authority covered by Part 6.5 of the State Environmental Planning Policy (Biodiversity and Conservation) 2021	No
Maps of the Sydney Water Drinking Water Catchment are available from: https://www.planningportal.nsw.gov.au/publications/environmental-planning- instruments/state-environmental-planning-policy-sydney-drinking-water- catchment-2011	
Would the proposal be undertaken on a bridge or ferry?	Yes
Is the proposal likely to require the extraction of water from a local water course (not mains)?	No

Water quality has the potential to be impacted during ground disturbance works including vegetation removal and excavation. Excavation would expose soils to erosive forces, such as rainfall and storm events. If the disturbed areas are not sufficiently stabilised following works, there is potential for ongoing erosion and impacts on water quality. To mitigate potential impacts to waterways and water quality, such as through run-off and sedimentation, the safeguards below would be implemented as part of the proposal.

Safeguards

Safeguards to be implemented are:

- W1. There is to be no release of dirty water into drainage lines and/or waterways.
- W2. Work will not be carried out during periods of heavy rainfall.
- W3. Visual monitoring of local water quality (i.e., turbidity, hydrocarbon spills/slicks) is to be undertaken on a regular basis to identify any potential spills or deficient erosion and sediment controls.
- W4. Water quality control measures are to be used to prevent any materials (e.g., sediment) entering draininlets or waterways
- W5. Vehicle wash down and/or cement washout is to occur in a designated bunded area located in the proposal boundary and clearly signposted
- W6. Vehicles and plant must be properly maintained and regularly inspected for fluid leaks
- W7. If refueling of plants and equipment is required on site it will take place on flat ground only, within a bunded area large enough to contain 120 per cent of the container's contents.

3.3 Noise and vibration

Description of existing environmental and potential impacts

Are there any residential properties or other noise sensitive areas near the location of the proposal that may be affected by the work (i.e., church, school, hospital) during construction?

No

Description of existing environmental and potential impacts	
During operation?	No
It is not anticipated that the proposal would increase existing noise levels duringoperation.	
Is the proposal going to be undertaken only during standard working hours?	No
Standard working hours Monday-Friday: 6:00am to 5:00pm Saturday: 8:00am to 1:00pm	
Sunday and Public Holidays: only if critically required and approved by the principal	
Is any explosive blasting required for the proposal?	No
Would construction noise or vibration from the proposal affect sensitive receivers?	No

Description of existing environmental and potential impacts

Would the operation of the proposal alter the noise environment for sensitive receivers? This might include, but not be limited to, altering the line or level of an existing carriageway, changing traffic flow, adding extra lanes, increasing traffic volume, increasing the number of heavy vehicles, removing obstacles that provide shielding including changing the angle of view of the traffic, changing the type of pavement, increasing traffic speeds by more than 10km/hr or installing audio-tactile line markings.	No
Would the proposal result in vibration being experienced by any surrounding properties or infrastructure during operation?	No

Safeguards

Safeguards to be implemented are:

- N1. Only have necessary equipment on site
- N2. Works are to be carried out during standard construction hours between 7am to 6pm Monday to Friday

and 8am to 1pm Saturdays.

N3. Notification must be given using variable message signs, letterbox drop (or equivalent), website / social media or a combination to distribute the information detailing work activities, time periods, impacts and safeguards. Notification should be a minimum of ten working days prior to the start of work.

3.4 Air Quality

Description of existing environmental and potential impacts	
Is the proposal likely to result in large areas (>2ha) of exposed soils?	No
Are there any dust sensitive receivers located within the vicinity of the proposal during the construction period	No
Is there likely to be an emission to air during construction?	No

Safeguards

Safeguards to be implemented are:

A1. Measures (including watering or covering exposed areas) are to be used to minimise or prevent air pollution and dust.

A2. Works are not to be carried out during strong winds or in weather conditions where high levels of dust or air borne particulates are likely.

A3. Vegetation or other materials are not to be burnt on site.

A4. Vehicles and vessels transporting waste or other materials that may produce odours or dust are to be covered during transportation.

A5. Stockpiles or areas that may generate dust are to be managed to suppress dust emissions in accordance with the Transport for NSW Stockpile Site Management Guidelines (EMS-TG-10) and Managing Urban Stormwater: Soils and construction - Volume 1 (the Blue Book).

3.5 Aboriginal heritage

Description of existing environmental and potential impacts	
Would the proposal involve disturbance in any area that has not been subject to previous ground disturbances?	No
Have online AHIMS search been completed? A basic search of the Aboriginal Heritage Information Management System (AHIMS) was undertaken for the proposal area. There are no known Aboriginal heritage items located within the proposal area and associated sites. The proposal is unlikely to impact on Aboriginal cultural heritage. The AHIMS searches are shown in Appendix B.	Yes

Is there potential for the proposal to impact on any items of Aboriginal heritage?

Would the proposal involve the removal of mature native trees? Removal of three mature trees. No tree exhibits any scarring suspected to be of Aboriginal origin.

24/07/2024

Note: Three large trees are proposed for removal. Among them, one is a *Turpentine* tree which the adjacent land owner preferred retention. This tree was inspected by a tree surgeon who recommended its removal. The inspection report indicated that the Turpentine tree was compromised by fire (2019/20 Currowan Bushfire), and both its root ball and base are unhealthy. The root system of this tree poses a risk to the integrity of the road surface, making its removal necessary.

All necessary approvals for the removal of the Turpentine tree have been obtained. Additionally, the remaining two trees have also been approved for removal. The approval documentation is attached in the appendix below. No

Yes

Description of existing environmental and potential impacts	
Would the proposals impact on any features that may indicate any potential archaeological remains?	No
Is the proposal consistent with the requirements of the Aboriginal cultural heritage consultation and Construction?	Yes
The approach taken in this Project REF involved a desktop assessment via an AHIMS search to determine whether the proposal is likely to harm Aboriginal cultural heritage and whether further assessment is required.	

Safeguards

Safeguards to be implemented are:

B1. If unexpected Aboriginal heritage items are uncovered during the works, all works in the vicinity of the item must cease and Council's Environmental Operations Officer contacted immediately.

3.6 Biodiversity

Description of existing environmental and potential impacts	
Have relevant database searches been carried out?	Yes
Multiple desktop searches were undertaken in August 24:	
 NSW Office of Environment and Heritage BioNet Database with a 10 km x 10 km area centered on the proposal Protected Matters Report that documents all Matters of National Environmental Significance (MNES) within a 5 km radius of the Proposal area. MNES include threatened species, communities and migratory species which are listed under the EPBC Act (DoEE 2019) 	
The full results of these database searches are in Appendix C	
Did the database searches identify any endangered ecological communities, threatened flora and/or threatened or protected fauna, or migratory species in or within the vicinity of the proposed works? Both Commonwealth and State listed matters must be considered.	No
While species are recorded within the search zones of 10×10 km search there are no sightings within the proposal boundary. As the proposal would only be clearing minimal vegetation, there is a very low risk of impacting any threatened or protected flora and fauna. See Appendix C.	
The terrestrial environment within the proposal area is highly modified and consists of planted shrubs.	
24/07/2024 Note:	
Before demolishing the current bridge, an official notification must be sent to the council. The Environmental Officer will visit the site to ensure that all environmental conditions are met and to safeguard against harm to any species during the demolition process. Additionally, an inspection has been conducted underneath the bridge to check for microbats. The report states that the Environmental Officer carried out an inspection of the underside of Smarts Bridge. No microbats were seen during the inspection. Some photos are attached in Appendix Below.	
<u>There are however a half a dozen mud bird nests (probably Swallows) on the</u> <u>timber girders that currently appear to be inactive.</u>	
24/07/2024 Note: Removal of two trees and the third tree (turpentine tree) was not in the	
proposal but after the Tree Surgeon has inspected the place for the removal of the three trees as per his inspection the turpentine tree inspection report	

indicated that the Turpentine tree has been compromised by fire, and both

its root ball and base are unhealthy. The root system of this tree poses a risk	
to the integrity of the road surface, making its removal necessary.	
All necessary approvals for the removal of the Turpentine tree have been	
obtained. Additionally, the remaining two trees have also been approved for	
removal. The approval documentation is attached in the appendix below.	
Is the proposal likely to impact nationally listed threatened species, ecological communities, or migratory species?	No
Would the proposal require the removal of any other vegetation?	No

Description of existing environmental and potential impacts	
Would the proposal affect any tree hollows or hollow logs?	No
Are there any known areas of outstanding biodiversity value or areas mapped as 'littoral rainforest' or 'coastal wetland' in the Coastal Management SEPP in or within the vicinity of the proposed work?	No
Would the proposal provide any additional barriers to the movement of wildlife?	No
Would the proposal disturb any natural waterways or aquatic habitat?	Yes
 Would the proposal disturb any crevices or other locations (such as on bridges and culverts) for potential bat habitat? An Inspection has been undertaken on the 23/07/2024 and it's been clear that there are no microbats inhabiting the underside of the bridge, nor any threatened species noticed in the Inspection. 	Yes

Safeguards

Safeguards to be implemented are:

F1. If unexpected, threatened fauna or flora species are discovered, stop works immediately and the Shoalhaven City Council's Environmental Operations Officer be contacted (ph:0478 307 936)

F2. Declared noxious weeds are to be managed according to requirements under the Biosecurity Act, 2015.

F3. Parking of vehicles and storage of plant/equipment is to occur on existing paved areas and shoulders. Where this is not possible, vehicles and plant/equipment are to be kept away from environmentally sensitive areas and outside the dripline of trees

F4. All vegetation removal is to be limited to the minimum extent necessary, there will be up to three trees removed with all the necessary permissions and approvals.

F5. Prior to the demolition of the existing bridge, an inspection of the underside shall be undertaken to determine the presence of microbats. If microbats are present, they shall be removed by a suitably qualified wildlife handler.

Note: An Inspection has been undertaken on the 23/07/2024 and it's been clear that there are no microbats inhabiting the underside of the bridge.

3.7 Trees

Description of existing environmental and potential impacts	
Does the proposal involve pruning, trimming or removal of any tree/s? Removal of two Blackbutts (1.5m DBH) and one Turpentine tree	Yes
Do the trees form part of a streetscape, an avenue or roadside planting? Naturally occurring, remnant trees.	No
Have the trees been planted by a community group, Landcare group or bycouncil or is the tree a memorial or part of a memorial group e.g., has a plaque?	No
Do the trees form part of a heritage listing or have other heritage value?	No

Safeguards

Safeguards to be implemented are:

G1. No trees to be retained in the construction.

Note: Three trees have been approved for Removal.

G2. An arborist/ecologist will be engaged prior to the removal of any trees onsite if hollows are found to ensure that no living beings inhabit the tree hollows.

3.8 Traffic and transport

Description of existing environmental and potential impacts		
Is the proposal likely to result in detours or disruptions to traffic flow (vehicular, cycle and pedestrian) or access during construction?	Yes	
Croobyar Road-Smarts Bridge will be closed with an alternative temporary road access and operate with traffic control near the site area with the max speed limit of 40 Km/hr.		

Is the proposal likely to result in detours or disruptions to traffic flow (vehicular, cycle and pedestrian) or access during operation?	Yes	
Is the proposal likely to affect any other transport nodes or transport infrastructure (e.g., bus stops, bus routes) in the surrounding area? Or result indetours or disruptions to traffic flow (vehicular, cycle and pedestrian) or access during operation?	No	

Safeguards

Safeguards to be implemented are:

T1. Where possible, current traffic movements and property accesses are to be maintained during the works. Any disturbance is to be minimised to prevent unnecessary traffic delays.

T2. Appropriate traffic control to facilitate safe construction is to be implemented including construction zone speed limits, temporary road safety barriers, temporary lane closures and stop/go traffic control as per project specific traffic control plan (safeguard T5). Reduced speed limits may be introduced for longer periods, as required to ensure construction workers' safety.

T3. A traffic control plan is to be prepared in accordance with the 'Traffic control at work sites manual' (RTA, 2010) and Australian Standard 1742.3 Manual of uniform control devices. The traffic control plan is to provide details of traffic management measures to be implemented during construction to ensure traffic flow on the surrounding network is maintained where possible. The Traffic Control Plan would also contain safeguards to ensure the safe separation of workers on site from vehicles to respective access paths.

T4. Existing access for nearby or adjoining properties is always to be maintained during the works unless otherwise agreed by the affected property owners.

T5. Notifications to be sent to potentially affected Property owners, residents and national parks.

3.9 Socio-economic

Description of existing environmental and potential impacts		
Is the proposal likely to impact local business?	No	
Is the proposal likely to require any property acquisition?	No	
Is the proposal likely to alter any access for properties (either temporarily or permanently)?	No	
Is the proposal likely to alter any on-street parking arrangements (either temporarily or permanently)?	No	
Is the proposal likely to change pedestrian movements or pedestrian access (either temporarily or permanently)?	No	
Once the upgrade is complete, pedestrian access would be permanently improved.		
Is the proposal likely to impact on any items or places of social value to the community (either temporarily or permanently)?	No	
Is the proposal likely to reduce or change the visibility of any businesses, farms, tourist attractions or the like (either temporarily or permanently)?	No	

Safeguards

Safeguards to be implemented are:

SE1. Any complaints are to be recorded in complaints register, the Project Manager is to be contacted, and the issue is to be assessed and attended to promptly.

3.10 Landscape character and visual amenity

Description of existing environmental and potential impacts	
Is the proposed work over or near an important physical or cultural element or landscape? (Heritage items and areas, distinctive or historic built form, National Parks, conservation areas, scenic highways etc.)?	No
Would the proposal obstruct or intrude upon the character or views of a valued landscape or urban area. For example, locally significant topography, arural landscape or a park, a river, lake or the ocean or a historic or distinctive townscape or landmark?	No
Would the proposal require the removal of mature trees or stands of vegetation, either native or introduced?	Yes
Would the proposal result in large areas of shotcrete visible from the road or adjacent properties?	No
Would the proposal involve new noise walls or visible changes to existing noise walls?	No
Would the proposal involve the removal or reuse of large areas of road corridor, landscape, either verges or medians?	No
Would the proposal involve substantial changes to the appearance of a bridge (including piers, girders, abutments and parapets) that are visible from the road or residential areas?	No
If involving lighting, would the proposal create unwanted light spillage on residential properties at night (in construction or operation)?	No
Would any new structures or features be being constructed result in overshadowing to adjoining properties or areas?	No

Safeguards

Safeguards to be implemented are:

L1. All construction related material and equipment will be removed from the proposal site at the completion of work and disturbed areas restored, including replacement seeding to assist in the remediation of the site if required.

3.11 Waste

Description of existing environmental and potential impacts	
Is the proposal likely to generate >200 tones of waste material (contaminated and /or non-contaminated material)?	Yes
Is the proposal likely to require a license from EPA?	No
Is the proposal likely to require the removal of asbestos?	No

Safeguards

Safeguards to be implemented are:

M1. Resource management hierarchy principles are to be followed:

- Avoid unnecessary resource consumption as a priority
- Avoidance is followed by resource recovery (including reuse of materials, reprocessing, recycling and energy recovery)
- Disposal is undertaken as a last resort (in accordance with the *Waste Avoidance & Resource Recovery Act 2001*).

M2. Waste is not to be burnt onsite

M3 The timber from the dismantled bridge will be used by the neighbouring property or taken offsite by the Contractor if unwanted by the Smarts family. Additionally, the timber obtained from the removal of the trees will be used by the neighboring property (Smarts family) or taken offsite by the Contractor if unwanted by the Smarts family. However, according to our records, all timber obtained from the dismantling of the bridge and the removal of trees must be given to the Smarts family as per their request.

M4. Waste material is not to be left onsite once works have been completed

M5. Working areas are to be maintained, kept free of rubbish and cleaned up at the end of each working day

M6. Where practical, material is to be reused onsite in accordance with Roads and Maritime Waste Fact Sheet 3 Excavated Public Road Materials, or alternatively, classified in accordance with the *NSW EPA Waste Classification Guidelines 2014* and disposed of at an applicable licensed facility.

M7. Disposal of waste will be undertaken in accordance with the DECC's (2008) Waste Classification Guidelines: Parts 1 and 2 and transported to a suitably licensed waste facility. Suspected contaminated waste, harmful materials or classifiable special wastes will be managed in accordance with the Contaminated Land Management Act 1997 and other relevant legislation.

4 Consideration of State and Commonwealth environmental factors

A. Environmental Planning and Assessment Regulation 2021 checklist

The following factors, listed in both the *Guidelines for Division 5.1 Assessments* (DPE, 2022) and section 171(2) of the Environmental Planning and Assessment Regulation 2021, have been considered to assess the likely impacts of the proposal on the natural and built environment. This consideration is required to comply with sections 5.5 and 5.7 of the EP&A Act.

Environmental factor	Impact
(a) Any environmental impact on a community?	Minor short-term negative
The proposed work may cause minor short-term environmental impacts on the community, such as slow vehicular traffic flow and noise impacts during the construction phase. The potential impacts would be minimised with the implementation of the safeguards as detailed in this Project REF.	
The proposal would have no adverse environmental impact on a community in the long-term and residents would benefit from an upgraded Bridge which will lower the risk level.	Long-term positive
(b) Any transformation of a locality?	Minor short-term negative
During construction the proposal would result in minimal disturbance to the locality as the works would be contained within the existing area.	
(c) Any environmental impact on the ecosystems of a locality?	Minor potential short-term negative
The proposal is unlikely to have an environmental impact on the ecosystems of the locality, any potential impacts would be minimised with the implementation of the safeguards given in Section 3 of this REF.	Ĵ
Two Blackbutts <i>Eucalyptus pilularis</i> and one Turpentine <i>Syncapia glomulifera</i> , are proposed for removal. These are substantial trees (1.5 metres diameter at breast height (dbh)) but appear not to contain any hollows suitable for fauna or nests. They are not threatened species and are common in the region.	
(d) Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of a locality?	Minor potential short-term negative
The proposal would not reduce the aesthetic, recreational, scientific or other environmental quality or value of the locality, as works would generally be contained with the existing area.	
(e) Any effect on a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or other special value for present or future generations?	Minor potential short-term negative

The proposal is unlikely to influence a locality, place or building of significance or other special value for present or future generations. Any potential impact would be minimised with the implementation of the safeguards given in Section 3 in this REF.	
(f) Any impact on habitat of any protected animals (within the meaning of the <i>Biodiversity Conservation Act 2016</i>)?	Nil
The proposal would not have any impact on the habitat of any protected animals due to the limited scope of works for the proposed activities and the implementation of the safeguards given in Section 3 of this REF.	
Prior to initiating the bridge dismantling process, it is essential to conduct a thorough check to ensure the absence of any existing bat species.	
Note: An Inspection has been undertaken on the Date 23/07/2024 and it's been clear that there is no Bat habitat, nor any threatened species noticed in the Inspection.	
(g) Endanger of any species of animal, plant or other form oflife, whether living on land, in water or in the air?	Nil
The proposal would not endanger any species of animal, plant or other form of life, whether living on land, in water or in the air due to the limited scope of works for the proposed activities and the implementation of the safeguards given in Section 3 of this REF.	
(h) Any long-term effects on the environment?	Long-term positive
The proposal would have positive long-term effects on the environment due to improved safety for road users. There are no anticipated negative long-term effects on the environment from the proposed works due to the limited scope of these works and the implementation of the safeguards given in Section 3 of this REF.	
(i) Any degradation of the quality of the environment?	Minor short-term negative
The proposal would have potential to minorly degrade the quality of the environment in the short-term due to construction works. However, the potential impacts would be minimised with the implementation of the safeguards given in Section 3 of this REF.	
(j) Any risk to the safety of the environment?	Nil
The proposal would have minimal risk to the safety of the environment due to the limited scope of works for the activities covered in this Minor Works REF. The potential impacts would be minimised with the implementation of the safeguards in Section 5.0 in this REF.	

(k) Any reduction in the range of beneficial users of the environment?	Minor short-term negative
The proposal would cause a minor disruption in vehicular traffic flow during the construction phase, with traffic managed by controlled measures and restricted speed limits for about 8-10 weeks. There would be no long-term reduction in the range of beneficial uses of the environment because of the maintenance works. In fact, the proposal would have positive long-term effects on the environment due to the bridge replacement.	
(I) Any pollution of the environment?	Minor short-term negative
The proposal would potentially cause pollution of the environment; however, the risks and potential impacts would be minimised with the implementation of the safeguards given in Section 3 of this REF.	
(m) Any environmental problems associated with the disposal of waste?	Nil
Any waste generated during the proposal would be contained and removed for disposal to approved recycling facilities, reused appropriately onsite or to licensed landfill in accordance with the safeguards in Section 3 of this REF. No environmental problems are anticipated for the disposal of waste.	
(n) Any increased demands on resources, natural or otherwise which are, or are likely to become, in short supply?	Nil
The proposal would not significantly increase demands on resources, which are, or are likely to become, in short supply. Relatively small amounts of materials would be required for the proposed work.	
(o) Any cumulative environmental effect with other existing or likely future activities?	Minor long-term positive
The proposal has the potential to have cumulative environmental effects with other existing or likely future activities, however the effects would be minimal due to the limited scope of works for the activities covered in this REF, and the potential impacts on the environment would be minimised with the implementation of the safeguards given in Section 3 in this REF.	
(p) Any impact on coastal processes and coastal hazards, including those under projected climate change conditions?	Nil
There would be no impact to coastal process or hazards, including those	

(q) Any impact on applicable local strategic planning statements, regional strategic plans or district strategic plans made under the Act, Division 3.1?	Minor long-term positive
(r) Any impact on other relevant environmental factors?	Nil
In considering the potential impacts of this proposal all relevant environmental factors have been considered, refer to Section 3 of this assessment.	

B. Matters of National Environmental Significance checklist

Under the environmental assessment provisions of the EPBC Act, the following matters of national environmental significance are required to be considered to:

- Assist in determining whether the proposal should be referred to the Australian Government Department of Agriculture, Water and the Environment
- For nationally listed threatened species, ecological communities, and migratory species, whether theimpacts are significant and should be assessed via a Project REF.

Factor	Impact
(a) Any impact on a World Heritage property?	Nil
(b) Any impact on a National Heritage place?	Nil
(c) Any impact on a wetland of international importance (often called 'Ramsar' wetlands)?	Nil
(d) Any impact on nationally threatened species, ecological communities or migratory species?	Nil
(e) Any impact on a Commonwealth marine area?	Nil
(f) Does the proposal involve nuclear action (including uranium mining)?	Nil
Additionally, any impact (direct or indirect) on the environment of Commonwealth land?	Nil

5 Summary of safeguards and environmental management measures

This section provides a summary of the site-specific environmental safeguards and management measures identified in described in chapters 3 and 4 of this REF. These safeguards will be implemented to reduce potential environmental impacts throughout construction and operation. A framework for managing the potential impacts is provided with reference to environmental management plans and relevant to all TfNSW specifications. Fisheries Permit shall be obtained for dredging and reclamation and blockage of fish passage prior to the commencement of works. And after that follow all the conditions of the permit. Any potential license and/or approval requirements required prior to construction are also listed.

Table 5-1: Summary of site-specific safeguards for proposed work

Safeguards for the proposed work		
Soil	E1. Erosion and sediment control measures are to be implemented and maintained to:	
	a. Prevent sediment moving off-site and sediment laden water entering any water course, drainage lines, or drain inlets	
	b. Reduce water velocity and capture sediment on site	
	 Minimise the amount of material transported from site to surrounding pavement surfaces 	
	d. Divert clean water around the site.	
	E2. Erosion and sedimentation controls are to be checked and maintained on a regular basis (including clearing of sediment from behind barriers) and records kept and provided on request	
	E3. Erosion and sediment control measures are not to be removed until the works are complete, and areas are stabilised	
	E4. Work areas are to be stabilised progressively during the works	
	E5. A progressive erosion and sediment control plan is to be prepared for the works.	
Waterways and water quality	 W1. There is to be no release of dirty water into drainage lines and/or waterways W2. Work will not be carried out during periods of heavy rainfall W3. Visual monitoring of local water quality (i.e., turbidity, hydrocarbon spills/slicks) is to be undertaken on a regular basis to identify any potential spills or deficient erosion and sediment controls 	
	W4. Water quality control measures are to be used to prevent any materials (e.g., sediment) entering drain inlets or waterways	
	W5. Vehicle wash down and/or cement washout is to occur in a designated bunded area located in the proposal boundary and clearly signposted	
	W6. Vehicles and plant must be properly maintained and regularly inspected for fluid leaks	
	W7. If refueling of plant and equipment is required on site it will take place on flat ground only, within a bunded area large enough to contain120 per cent of the container's contents.	

Noise and vibration	N1. Only have necessary equipment on site
	N2. Works are to be carried out during standard construction hours between 7am to 6pm Monday to Friday and 8am to 1pm Saturdays.
	N3. Notification must be given using variable message signs, letterbox drop (or equivalent), website / social media or a combination to distribute the information detailing work activities, time periods, impacts and safeguards. Notification should be a minimum of ten working days prior to start of works.
Air quality	A1. Measures (including watering or covering exposed areas) are to be used to minimise or prevent air pollution and dust.
	A2. Works are not to be carried out during strong winds or in weather conditions where high levels of dust or air borne particulates are likely.
	A3. Vegetation or other materials are not to be burnt on site.
	A4. Vehicles and vessels transporting waste or other materials that may produce odors or dust are to be covered during transportation.
	A5. Stockpiles or areas that may generate dust are to be managed to suppress dust emissions in accordance with the Transport for NSW Stockpile Site Management Guidelines (EMS-TG-10) and Managing Urban Stormwater: Soils and construction - Volume 1 (the Blue Book).
Aboriginal Heritage	B1. If unexpected Aboriginal heritage items are uncovered during the works, all works in the vicinity of theitem must cease and Council's Environmental Operations Officer contacted immediately.
Biodiversity	F1. If unexpected, threatened fauna or flora species are discovered, stop works immediately and the Shoalhaven City Council's Environmental Operations Officer shall be contacted (ph:0478 307 936)
	F2. Declared noxious weeds are to be managed according to requirements under the Biosecurity Act, 2015.
	F3. Parking of vehicles and storage of plant/equipment is to occur on existing paved areas and shoulders. Where this is not possible, vehicles and plant/equipment are to be kept away from environmentally sensitive areas and outside the dripline of trees
	F4. All vegetation removal is to be limited to the minimum extent necessary, there will be up to three trees removed which includes turpentine tree with all necessary permissions and approvals.
	F5. Prior to the demolition of the existing bridge, an inspection of the underside shall be undertaken to determine the presence of microbats. If microbats are present, they shall be removed by a suitably qualified wildlife handler.
Trees	G1. All material and plants will be located outside of driplines from trees to be retained.
	G2. An arborist/ecologist will be engaged prior to the removal of any trees onsite if hollows are found to ensure that no living beings inhabit the tree hollows.

Traffic and transport	T1. Where possible, current traffic movements and property accesses are to be maintained during the works. Any disturbance is to be minimised to prevent unnecessary traffic delays.
	T2. Appropriate traffic control to facilitate safe construction is to be implemented including construction zone speed limits, temporary road safety barriers, temporary lane closures and stop/go traffic control as per a project specific traffic control plan (safeguard T5). Reduced speed limits may be introduced for longer periods, as required to ensure construction workers' safety.
	T3. A traffic control plan is to be prepared in accordance with the 'Traffic control at work sites manual' (RTA, 2010) and Australian Standard 1742.3 Manual of uniform control devices. The traffic control plan is to provide details of traffic management measures to be implemented during construction to ensure traffic flow on the surrounding network is maintained where possible. The Traffic Control Plan would also contain safeguards to ensure the safe separation of workers on site from vehicles to respective access paths.
	T4. Existing access for nearby or adjoining properties is always to be maintained during the works unless otherwise agreed by the affected property owners.
	T5. Notifications to be sent to potentially affected Property owners, residents and national parks.
Socio-economic	SE1. Any complaints are to be recorded in complaints register, Project Manager is to be contacted, issue is to be assessed and attended to promptly.
Landscape character and visual amenity	L1. All construction related material and equipment will be removed from the proposal site at the completion of work and disturbed areas restored, including replacement seeding to assist in the remediation of the site if required.
Fisheries Management	F1. Implementing best practices for sediment control.
	F3. Using fish-friendly construction methods.
	F4. A Fisheries Permit for dredging and reclamation shall be obtained prior to the commencement of works.

Waste	M1. Resource management hierarchy principles are to be followed:
	 Avoid unnecessary resource consumption as a priority
	 Avoidance is followed by resource recovery (including reuse of materials, reprocessing, recycling and energy recovery)
	 Disposal is undertaken as a last resort (in accordance with the Waste Avoidance & Resource Recovery Act 2001).
	M2. Waste is not to be burnt onsite
	M3 The timber from the dismantled bridge will be used by the neighboring property or taken offsite by the Contractor if unwanted. Additionally, the timber obtained from the removal of the trees will be used by the neighboring property Smarts family) structure will be given or taken offsite by the Contractor if unwanted.
	M4. Waste material, other than vegetation is not to be left onsite once works have been completed
	M5. Working areas are to be maintained, kept free of rubbish and cleaned up at the end of each working day
	M6. Where practical, material is to be reused onsite in accordance with Roads and Maritime Waste Fact Sheet 3 Excavated Public Road Materials, or alternatively, classified in accordance with the NSW EPA Waste Classification Guidelines 2014 and disposed of at an applicable licensed facility.
	M7. Disposal of waste will be undertaken in accordance with the DECC's (2008) Waste Classification Guidelines: Parts 1 and 2 and transported to a suitably licensed waste facility. Suspected contaminated waste, harmful materials or classifiable special wastes will be managed in accordance with the Contaminated Land Management Act 1997 and other relevant legislation.

6 SIGNIFICANCE EVALUATION & DECISION STATEMENT

This Review of Environmental Factors has assessed the likely environmental impacts, in the context of Part 2 of the Environmental Planning and Assessment Act 1979, of a proposal by **Shoalhaven City Council** for the construction of **Smarts Bridge Replacement on Croobyar Road – Croobyar**.

In consideration of the proposal as described In Section 1, in accordance with any design plans referred to in this report, and assuming the implementation of all proposed safeguards and mitigation measures (Section 5), it is determined that:

- It is unlikely that there will be any significant environmental impact because of the proposed activity and an Environmental Impact Statement is not required.
- The proposed activity will not be carried out in a declared area of outstanding biodiversity value and is not likely to significantly affect threatened species, populations or ecological communities, or their habitats, and a Species Impact Statement / BDAR is not required.
- Exempting Fisheries Permit, no other statutory approvals, licenses, permits or external government consultations are required.
- The proposed activity may proceed.

In accepting and adopting this REF, Shoalhaven City Council commits to ensuring the Implementation of the proposed safeguards and mitigation measures identified in this report (Section 5) to minimise and/or prevent detrimental environmental impacts.

Determined by:

Troy Punnett

District Engineer – Southern District Shoalhaven City Council

Date: 2/8/2024

7 Certification, review, and decision

7.1 Certification

This project works REF provides a true and fair review of the proposal in relation to its potential effects on the environment. It fully addresses all the possible matters affecting or likely to affect the environment as a result of the proposal.

Prepared by:

Mr JOSEPH SABA

MIEAust B.Eng CPEng NER APEC Engineer IntPE(Aus)

Registered Professional Engineer of Queensland RPEQ: **25081** Registered Professional Engineer of New South Wales: **2536458**

M 0478 415 957

Date: Friday 2 August 2024

7.2 Environment staff review

The Project REF has been reviewed and considered against the requirements of sections 5.5 and 5.7 of the EP&A Act.

In considering the proposal this assessment has examined and considered to the fullest extent possible, all matters affecting or likely to affect the environment by reason of that activity as addressed in the Minor Works REF and associated information. This assessment is in accordance with the factors required to be considered under section 171 of the Environmental Planning and Assessment Regulation 2021.

The proposal described in the Project Works REF will have some environmental impacts which can be ameliorated satisfactorily. Having regard to the safeguard and management measures proposed, this assessment has considered that these impacts are unlikely to be significant and therefore an approval forthe proposal does not need to be sought under Division 5.2 of the EP&A Act.

The assessment has considered the potential impacts of the activity on areas of outstanding value and onthreatened species, ecological communities, or their habitats for both terrestrial and aquatic species as defined by the *Biodiversity Conservation Act 2016* and the *Fisheries Management Act 1994*.

The proposal described in the Project Works REF will not affect areas of outstanding value. The activity described in the Minor Works REF will not significantly affect threatened species ecological communities ortheir habitats. Therefore, a species impact statement is not required.

The assessment has also addressed the potential impacts on the activity on matters of national environmental significance and any impacts on the environment of Commonwealth land and concluded thatthere will be no significant impacts. Therefore, there is no need for a referral to be made to the Australian Government Department of Agriculture, Water and the Environment for a decision by the commonwealth minister for the Environment on whether assessment and approval is required under the *Environment Protection and Biodiversity Conservation Act 1999*.

I certify that I have reviewed and endorsed the contents of this REF document and, to the best of my knowledge, it is in accordance with the EP&A act, the EP&A Regulation and Guidelines approved under clause 170 of the EP&A Regulation, and the information it contains is neither false nor misleading.

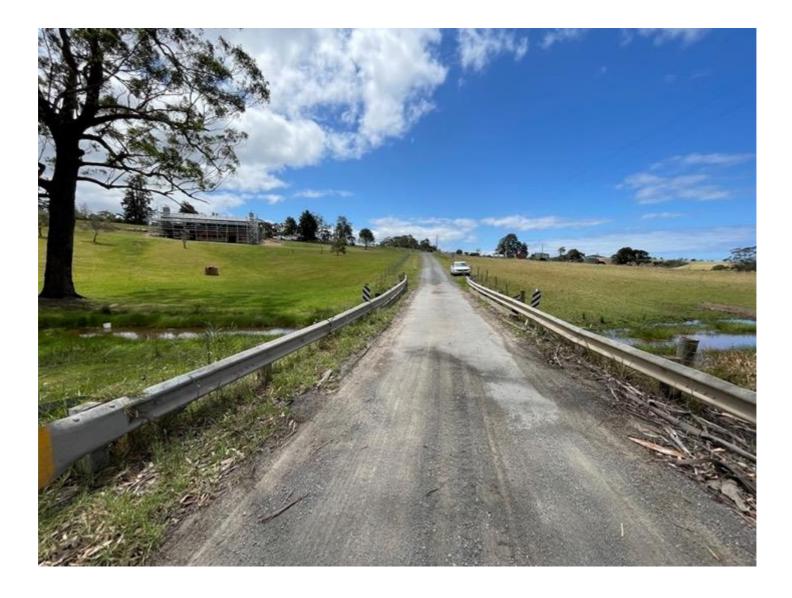
quay

Geoff Young Environmental Operations Officer City Services Date: Friday 2 August 2024

Appendix A Project Site Pictures















Appendix B

Inspection Photos of the Underside of Smarts Bridge for Confirmation of Microbat Habitation











Appendix C AHIMS Search



Your Ref/PO Number : Bridge Client Service ID : 844926

Date: 30 November 2023

SABA CIVIL MANAGEMENT AND CONSULTANCY PTY LTD 113 The Comenaria Parkway

Turramurra New South Wales 2074

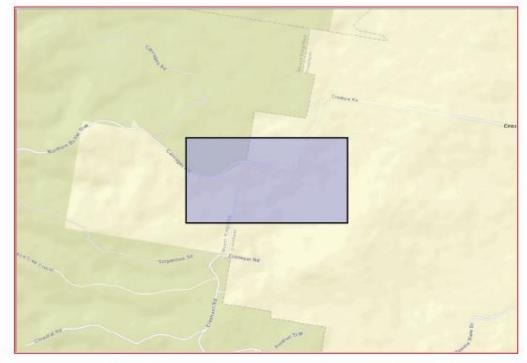
Attention: Sandeep Salvala

Email: sandeepsalvala@sabacmc.com

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -35.3278, 150.3594 - Lat, Long To : -35.3209, 150.3749, conducted by Sandeep Salvala on 30 November 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. *	

Figure 3 AHIMS search, Croobyar Road - Smarts Bridge, Croobyar

Appendix D

Tree removal change proposal and request for direction

Land Concept	EAST COAST CIVIL CONSTRUCTIONS PTY LTD	FORM
CIVIL CONSTRUCTION	Change proposal & Request for direction	112

Reviewed: 10 Jul. 24

trees. Steve is a professional tree surgeon based in Milton with over 18 years experience. Steve inspected all three trees and has advised that he can remove the three trees. Steve has advised the turpentine tree No. 3 be removed. This is the tree the resident, James Smart, requested be retained if possible. Steve's professional opinion is the tree has been compromised by the fire. The root ball and base of the tree are not healthy and the root system will compromise the completed road surface.	To: Joseph Saba, Superintendent's Rep Ref No: 1 – Tree removal Shoalhaven City Council Subject: (Tick box with "X" to select notice type) Engineering change proposal: Please review the engineering change proposal described below and respond with approval or otherwise by				
Shoalhaven City Council Subject: (Tick box with "X" to select notice type) Engineering change proposal: Please review the engineering change proposal described below and respond with approval or otherwise by	Shoalhaven City Council Subject: (Tick box with "X" to select notice type) Engineering change proposal: Please review the engineering change proposal described below and respond with approval or otherwise by	Project:	Smarts Creek, Croobyar Road - Contrac	t 76601E	Date: 22.07.2024
Subject: (Tick box with "X" to select notice type)	Subject: (Tick box with "X" to select notice type)	To:	Joseph Saba, Superintendent's Rep	Ref No:	1 - Tree removal
Engineering change proposal: Please review the engineering change proposal described below and respond with approval or otherwise by (date) (date) (date) (date) Request for direction: Please provide the direction requested below, before we establishment on site. Ornfirmation of instruction: Please confirm your instruction, as described below Advice of delay (as detailed below) Details (use reverse side or attach additional sheet if required): Gary has met Steve Wilson from Steve Wilson Tree Services on site to discuss removal of the three trees. Steve is a professional tree surgeon based in Milton with over 18 years experience. Steve inspected all three trees and has advised that he can remove the three trees. Steve has advised the turpentine tree No. 3 be removed. This is the tree the resident, James Smart, requested be retained if possible. Steve's professional opinion is the tree has been compromised by the fire. The root ball and base of the tree are not healthy and the root system will compromise the completed road surface. Please confirm you are happy if we proceed with full removal of all three trees as priced in our tender and you will notify Mr Smart of this outcome. Reply: Commutor to posed with full removal. No set to to commence on the to remove the tree proceed the targeneed the fuel parts.	Engineering change proposal: Please review the engineering change proposal described below and respond with approval or otherwise by (date) (date) (date) (date) Request for direction: Please provide the direction requested below, before we establishment on site. Confirmation of instruction: Please confirm your instruction, as described below Advice of delay (as detailed below) Details (use reverse side or attach additional sheet if required): Gary has met Steve Wilson from Steve Wilson Tree Services on site to discuss removal of the three trees. Steve is a professional tree surgeon based in Milton with over 18 years experience. Steve inspected all three trees and has advised that he can remove the three trees. Steve has advised the turpentine tree No. 3 be removed. This is the tree the resident, James Smart, requested be retained if possible. Steve's professional opinion is the tree has been compromised by the fire. The root ball and base of the tree are not healthy and the root system will compromise the completed road surface. Please confirm you are happy if we proceed with full removal of all three trees as priced in our tender and you will notify Mr Smart of this outcome. (Signature) Mame: Gary Cochrane Gary Cochrane Confirmation of the tree sufficience on the sufficience of the syned off Project REF and approved tablesite parmit, distributed and it is corrently awathy review and decision.		Shoalhaven City Council		
Please review the engineering change proposal described below and respond with approval or otherwise by	Please review the engineering change proposal described below and respond with approval or otherwise by	Subject: (Tid	ck box with "X" to select notice type)		
(date) (date)	Image:	Engineeri	ing change proposal:		
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Once the permit is signed off, it will be added to the Project BEE reviewed (updated and submitted to council for size off	sense me permit se angress sen, it me as anales so the English road permitted of spherical and additional for angle Sit.	which has been sul	bmitted and is currently awaiting review and decision.		

Change proposal or instruction approved?		
	(Signature)	
Name: Mr Joseph Saba	Position: Jaaba	23rd July 2024
	0	

Appendix E Biodiversity Search



Figure 4 - BioNet Search, Croobyar Road-Smarts Bridge-Croobyar

BIONET DATA:

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 : Public Report of all Valid Records of Entities in selected area [North: -35.28 West: 150.32 East: 150.42 South: -35.38] returned a total of 5,479 records of 873 species.

Report generated on 4/12/2023 3:30

РM

Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Comm status	Record s	Inf o
Animalia	Actinopterygi	Eleotridae	T1002	Hypseleotris galii		Firetail Gudgeon		Status	1	
Animalia	Amphibia	Myobatrachidae	3134	Crinia signifera		Common Eastern Froglet	Р		81	
Animalia	Amphibia	Myobatrachidae	3103	Paracrinia haswelli		Haswell's Froglet	Ρ		43	
Animalia	Amphibia	Myobatrachidae	3117	Pseudophryne bibronii		Bibron's Toadlet	Ρ		1	
Animalia	Amphibia	Myobatrachidae	3302	Uperoleia tyleri		Tyler's Toadlet	Ρ		24	
Animalia	Amphibia	Limnodynastidae	3058	Limnodynastes dumerilii		Eastern Banjo Frog	Ρ		3	
Animalia	Amphibia	Limnodynastidae	3061	Limnodynastes peronii		Brown-striped Frog	Ρ		67	
Animalia	Amphibia	Hylidae	3182	Litoria ewingii		Brown Tree Frog	Р		2	
Animalia	Amphibia	Hylidae	3183	Litoria fallax		Eastern Dwarf Tree Frog	Р		1	
Animalia	Amphibia	Hylidae	3190	Litoria jervisiensis		Jervis Bay Tree Frog	Р		34	
Animalia	Amphibia	Hylidae	3316	Litoria lesueuri		Lesueur's Frog	Р		2	
Animalia	Amphibia	Hylidae	3309	Litoria nudidigita		Leaf Green River Tree Frog	Р		3	
Animalia	Amphibia	Hylidae	3204	Litoria peronii		Peron's Tree Frog	Р		54	
Animalia	Amphibia	Hylidae	3214	Litoria tyleri		Tyler's Tree Frog	Р		14	
Animalia	Amphibia	Hylidae	3215	Litoria verreauxii		Verreaux's Frog	Р		38	
Animalia	Amphibia	Hylidae	T1122	Litoria watsoni			E1	Ε	2	X Th e lin
Animalia	Reptilia	Chelidae	2017	Chelodina longicollis		Eastern Snake-necked Turtle	Ρ		2	
Animalia	Reptilia	Scincidae	2557	Eulamprus quoyii		Eastern Water-skink	Р		2	
Animalia	Reptilia	Scincidae	2450	Lampropholis delicata		Dark-flecked Garden Sunskink	Ρ		2	
Animalia	Reptilia	Scincidae	2451	Lampropholis guichenoti		Pale-flecked Garden Sunskink	Р		1	
Animalia	Reptilia	Scincidae	2580	Tiliqua scincoides		Eastern Blue-tongue	Р		1	
Animalia	Reptilia	Agamidae	2194	Amphibolurus muricatus		Jacky Lizard	Р		1	
Animalia	Reptilia	Agamidae	2252	Intellagama lesueurii		Eastern Water Dragon	Р		1	
Animalia	Reptilia	Varanidae	2283	Varanus varius		Lace Monitor	Р		7	
Animalia	Reptilia	Pythonidae	5096	Morelia spilota spilota		Diamond Python	Р		2	
Animalia	Reptilia	Elapidae	2615	Austrelaps ramsayi		Highland Copperhead	Р		1	
Animalia	Reptilia	Elapidae	2665	Drysdalia coronoides		White-lipped Snake	Р		1	
Animalia	Reptilia	Elapidae	2693	Pseudechis porphyriacus		Red-bellied Black Snake	Р		11	
Animalia	Reptilia	Elapidae	2699	Pseudonaja textilis		Eastern Brown Snake	Р		1	
Animalia	Aves	Phasianidae	0011	Synoicus ypsilophora		Brown Quail	Р		2	
Animalia	Aves	Anatidae	0210	Anas castanea		Chestnut Teal	Р		2	
Animalia	Aves	Anatidae	0202	Chenonetta jubata		Australian Wood Duck	Р		2	
Animalia	Aves	Columbidae	0044	Leucosarcia melanoleuca		Wonga Pigeon	Ρ		4	
Animalia	Aves	Columbidae	0027	Lopholaimus antarcticus		Topknot Pigeon	Ρ		1	
A	A		0020				-		•	

Animalia	Aves	Columbidae	0029	Macropygia phasianella		Brown Cuckoo-Dove	Р		3	
Animalia	Aves	Columbidae	0043	Ocyphaps lophotes		Crested Pigeon	Р		2	
Animalia	Aves	Columbidae	0034	Phaps chalcoptera		Common Bronzewing	Ρ		2	
Animalia	Aves	Columbidae	0989	Spilopelia chinensis	*	Spotted Turtle-Dove			1	
Animalia	Aves	Podargidae	0313	Podargus strigoides		Tawny Frogmouth	Р		3	
Animalia	Aves	Apodidae	0334	Hirundapus caudacutus		White-throated Needletail	Ρ	V,C,J,K	1	× Th e lin
Animalia	Aves	Phalacrocoracidae	0099	Phalacrocorax varius		Pied Cormorant	Ρ		1	
Animalia	Aves	Accipitridae	0220	Accipiter novaehollandiae		Grey Goshawk	Ρ		1	
Animalia	Aves	Accipitridae	0224	Aquila audax		Wedge-tailed Eagle	Р		1	
Animalia	Aves	Accipitridae	0219	Circus approximans		Swamp Harrier	Р		1	
Animalia	Aves	Accipitridae	0232	Elanus axillaris		Black-shouldered Kite	Р		1	

Animalia	Aves	Falconidae	0240	Falco cenchroides	Nankeen Kestrel	Р		2	
Animalia	Aves	Falconidae	0235	cenchroides Falco longipennis	Australian Hobby	Р		1	
Animalia	Aves	Cacatuidae	0269	Cacatua galerita	Sulphur-crested Cockatoo	P		1	
Animalia		Cacatuidae	8862	^Calyptorhynchus	•	F V,P,2	V	2	
Ammana	Aves	Cacatuluae	0002	lathami lathami	South-eastern Glossy Black-Cockatoo	V,P,Z	v	Z	X Th e lin
Animalia	Aves	Cacatuidae	0273	Eolophus roseicapilla	Galah	Р		2	
Animalia	Aves	Cacatuidae	0267	Zanda funereus	Yellow-tailed Black-	Р		1	
					Cockatoo				
Animalia	Aves	Psittacidae	0281	Alisterus scapularis	Australian King-Parrot	Р		8	
Animalia	Aves	Psittacidae	0258	Glossopsitta concinna	Musk Lorikeet	Р		1	
Animalia	Aves	Psittacidae	8913	^^Pezoporus wallicus wallicus	Eastern Ground Parrot	V,P,3		4	X Th e lin
Animalia	Aves	Psittacidae	0282	Platycercus elegans	Crimson Rosella	Р		6	
Animalia	Aves	Psittacidae	0288	Platycercus eximius	Eastern Rosella	Р		3	
Animalia	Aves	Psittacidae	0256	Trichoglossus	Scaly-breasted Lorikeet	Р		1	
Animalia	Aves	Psittacidae	9947	chlorolepidotus Trichoglossus	Rainbow Lorikeet	Р		6	
				haematodus					
Animalia	Aves	Cuculidae	0338	Cacomantis flabelliformis	Fan-tailed Cuckoo	Р		1	
Animalia	Aves	Cuculidae	0337	Heteroscenes pallidus	Pallid Cuckoo	Р		1	
Animalia	Aves	Cuculidae	0348	Scythrops	Channel-billed Cuckoo	Р		1	
A · · · ·		61 I I I	0000	novaehollandiae		5		6	
Animalia	Aves	Strigidae	9922	Ninox novaeseelandiae	Southern Boobook	P		6	_
Animalia	Aves	Strigidae	0248	^^Ninox strenua	Powerful Owl	V,P,3		5	
Animalia	Aves	Tytonidae	0250	^^Tyto novaehollandiae	Masked Owl	V,P,3		3	
Animalia	Aves	Tytonidae	9924	^^Tyto tenebricosa	Sooty Owl	V,P,3		3	1
Animalia	Aves	Alcedinidae	0322	Dacelo novaeguineae	Laughing Kookaburra	Р		10	
Animalia	Aves	Alcedinidae	0326	Todiramphus sanctus	Sacred Kingfisher	Р		1	
Animalia	Aves	Menuridae	0350	Menura	Superb Lyrebird	Р		29	
Animalia	A	Clines at avide a	0550	novaehollandiae		5		2	
Animalia	Aves	Climacteridae	0558	Cormobates Ieucophaea	White-throated Treecreeper	Р		3	
Animalia	Aves	Ptilonorhynchidae	0676	Ailuroedus crassirostris	Green Catbird	Ρ		1	
Animalia	Aves	Ptilonorhynchidae	0679	Ptilonorhynchus violaceus	Satin Bowerbird	Ρ		7	
Animalia	Aves	Maluridae	0529	Malurus cyaneus	Superb Fairy-wren	Р		3	
Animalia	Aves	Maluridae	0536	Malurus lamberti	Variegated Fairy-wren	Р		1	
Animalia	Aves	Maluridae	0526	Stipiturus malachurus	Southern Emu-wren	Р		1	
Animalia	Aves	Dasyornithidae	0506	Pycnoptilus floccosus	Pilotbird	Р	V	1	X Th e lin
Animalia	Aves	Acanthizidae	0470	Acanthiza lineata	Striated Thornbill	Р		3	
Animalia	Aves	Acanthizidae	0471	Acanthiza nana	Yellow Thornbill	Р		1	
Animalia	Aves	Acanthizidae	0475	Acanthiza pusilla	Brown Thornbill	Р		2	
Animalia	Aves	Acanthizidae	0500	Calamanthus	Striated Fieldwren	E1,P		1	× Th e
				fuliginosus					L e lin
Animalia	Aves	Acanthizidae	0454	Gerygone mouki	Brown Gerygone	Р		2	
Animalia	Aves	Acanthizidae	0453	Gerygone olivacea	White-throated Gerygone	P		1	
Animalia	Aves	Acanthizidae	0488	Sericornis frontalis	White-browed Scrubwren	Р		5	
Animalia	Aves	Acanthizidae	0465	Smicrornis brevirostris	Weebill	Ρ		1	
Animalia	Aves	Pardalotidae	0565	Pardalotus punctatus	Spotted Pardalote	Р		3	
Animalia	Aves	Meliphagidae	0591	Acanthorhynchus tenuirostris	Eastern Spinebill	Ρ		4	
Animalia	Aves	Meliphagidae	0638	Anthochaera carunculata	Red Wattlebird	Ρ		2	
Animalia	Aves	Meliphagidae	0710	Anthochaera chrysoptera	Little Wattlebird	Ρ		1	
Animalia	Aves	Meliphagidae	0614	Caligavis chrysops	Yellow-faced Honeyeater	Р		6	
Animalia	Aves	Meliphagidae	0605	Meliphaga lewinii	Lewin's Honeyeater	Р		4	
Animalia	Aves	Meliphagidae	0578	Melithreptus lunatus	White-naped Honeyeater	Р		1	
Animalia	Aves	Meliphagidae	0586	Myzomela sanguinolenta	Scarlet Honeyeater	Ρ		1	
Animalia	Aves	Meliphagidae	0645	Philemon corniculatus	Noisy Friarbird	Р		2	
Animalia	Aves	Meliphagidae	0631	Phylidonyris novgobollandigo	New Holland Honeyeater	Р		1	
Animalia	Aves	Psophodidae	0421	novaehollandiae Psophodes olivaceus	Eastern Whipbird	Р		8	
Animalia	Aves	Campephagidae	0421	Coracina	Black-faced Cuckoo-shrike	P		8 2	
,initialita	/			novaehollandiae				-	
Animalia	Aves	Campephagidae	0429	Edolisoma tenuirostris	Cicadabird	Р		1	

Animalia									
	Aves	Pachycephalidae	0408	Colluricincla harmonica	Grey Shrike-thrush	Ρ		18	
Animalia	Aves	Pachycephalidae	0401	Pachycephala	Rufous Whistler	Р		2	
				rufiventris					
Animalia	Aves	Artamidae	0702	Cracticus torquatus	Grey Butcherbird	Р		3	
nimalia	Aves	Artamidae	0705	Gymnorhina tibicen	Australian Magpie	Р		9	
nimalia	Aves	Artamidae	0694	Strepera graculina	Pied Currawong	P		2	
nimalia	Aves	Rhipiduridae Rhipiduridae	0361	Rhipidura albiscapa	Grey Fantail	Р		3	
nimalia	Aves	Rhipiduridae	0364	Rhipidura leucophrys	Willie Wagtail	P		3	
Animalia	Aves	Rhipiduridae	0362	Rhipidura rufifrons	Rufous Fantail	P P		1	
Animalia Animalia	Aves Aves	Corvidae Monarchidae	0930 0415	Corvus coronoides Grallina cyanoleuca	Australian Raven Magpie-lark	P		1	
Animalia	Aves	Monarchidae	0373	Monarcha melanopsis	Black-faced Monarch	P		1 2	
Animalia	Aves	Monarchidae	0366	Myiagra cyanoleuca	Satin Flycatcher	P		1	
Animalia	Aves	Monarchidae	0365	Myiagra rubecula	Leaden Flycatcher	P		1	
Animalia	Aves	Petroicidae	0392	Eopsaltria australis	Eastern Yellow Robin	P		6	
Animalia	Aves	Petroicidae	0384	Petroica rosea	Rose Robin	P		1	
Animalia	Aves	Locustellidae	0509	Cincloramphus	Rufous Songlark	P		1	
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Animalia	Aves	Hirundinidae	0357	Hirundo neoxena	Welcome Swallow	Р		2	
Animalia	Aves	Turdidae	0991	Turdus merula *	Eurasian Blackbird			2	
Animalia	Aves	Turdidae	0779	Zoothera lunulata	Bassian Thrush	Р		1	
Animalia	Aves	Zosteropidae	0574	Zosterops lateralis	Silvereye	Р		2	
Animalia	Aves	Dicaeidae	0564	Dicaeum	Mistletoebird	Р		1	
Animalia	A	م مام المانية م	0662	hirundinaceum Naachmia tomporalis	Dod browned Finals	D		2	
Animalia	Aves	Estrildidae	0662	Neochmia temporalis	Red-browed Finch	P		3	
Animalia	Aves	Estrildidae	0650	Stagonopleura bella	Beautiful Firetail			1	
Animalia	Aves	Motacillidae	0647	Anthus novaeseelandiae	Australian Pipit	Р		1	
Animalia	Mammalia	Tachyglossidae	1003	Tachyglossus aculeatus	Short-beaked Echidna	Р		6	
Animalia	Mammalia	Dasyuridae	T093	Antechinus sp.	Unidentified Antechinus	Р		3	
Animalia	Mammalia	Dasyuridae	1008	Dasyurus maculatus	Spotted-tailed Quoll	V,P	Е	1	× Th
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Animalia	Mammalia	Peramelidae	1097	Perameles nasuta	Long-nosed Bandicoot	Р		39	
Animalia	Mammalia	Phascolarctidae	1162	Phascolarctos cinereus	Koala	E1,P	Е	1	🗙 Th e
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			4465					4.47	
Animalia	Mammalia	Vombatidae	1165	Vombatus ursinus	Bare-nosed Wombat	P		147	
Animalia	Mammalia	Burramyidae	1150	Cercartetus nanus	Eastern Pygmy-possum	V,P		1	
Animalia	Mammalia	Dotauridaa	1126	Potaurus australia	Yellow-bellied Glider		V	1	- 1
Animalia	Mammalia	Petauridae Petauridae	1136 1138	Petaurus australis		V,P P	v	1	
Animalia Animalia	Mammalia Mammalia	Pseudocheiridae	1138	Petaurus breviceps Petauroides volans	Sugar Glider Southern Greater Glider	E1,P	E	8 1	🗙 Th
Ammana	Wallinalia	Fseudocheinuae	1133	Feturiolaes volulis	Southern Greater Gluer				e lin
						L 1, F	E	1	
Animalia	Mammalia	Decudo choiride o	1120	Draudachairus	Common Diagtail Dessum		L		
Animalia	Mammalia	Pseudocheiridae	1129	Pseudocheirus perearinus	Common Ringtail Possum	P	E	3	
	Mammalia Mammalia	Pseudocheiridae Acrobatidae	1129 1147	peregrinus	Common Ringtail Possum Feathertail Glider		L		
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Animalia	Mammalia	Vespertilionidae	1365	Scotorepens orion		Eastern Broad-nosed Bat	Р	1
Animalia	Mammalia	Vespertilionidae	1022	Vespadelus darlingtoni		Large Forest Bat	Р	1
Animalia	Mammalia	Vespertilionidae	1378	Vespadelus regulus		Southern Forest Bat	Р	1
Animalia	Mammalia	Vespertilionidae	1379	Vespadelus vulturnus		Little Forest Bat	Р	3
Animalia	Mammalia	Muridae	1412	Mus musculus	*	House Mouse		1
Animalia	Mammalia	Muridae	1395	Rattus fuscipes		Bush Rat	Р	14
Animalia	Mammalia	Muridae	1408	Rattus rattus	*	Black Rat		1
Animalia	Mammalia	Muridae	T094	Rattus sp.		rat	Р	181
Animalia	Mammalia	Canidae	1905	·	*	Dog	F	2
	Mammalia	Canidae	1531	Canis familiaris Canis lupus	*	-		
Animalia				·	*	Dingo, domestic dog		2
Animalia	Mammalia	Canidae	1904	Canis lupus dingo		Dingo		2
Animalia	Mammalia	Canidae	1532	Vulpes vulpes	*	Fox		49
Animalia	Mammalia	Felidae	1536	Felis catus	*	Cat		2
Animalia	Mammalia	Leporidae	1510	Oryctolagus cuniculus	*	Rabbit		2
Animalia	Mammalia	Equidae	1512	Equus caballus	*	Horse		1
Animalia	Mammalia	Bovidae	1518	Bos taurus	*	European cattle		1
Animalia	Mammalia	Cervidae	9112	Cervus sp.	*	Unidentified Deer		1
Animalia	Insecta	Petaluridae	1007	Petalura gigantea		Giant Dragonfly	E1	1 I
Animalia	Unknown	Unknown Fauna	T355	Bird sp.		Unidentified Bird		1
Animalia	Unknown	Unknown Fauna	T350	Fauna sp.		Unidentified Fauna		7
Animalia	Unknown	Unknown Fauna	T351	Mammal sp.		Unidentified Mammal		18
Animalia	Unknown	Unknown Fauna	T202	Microchiroptera		Unidentified Microbat		1
				suborder				
Animalia	Unknown	Unknown Fauna	T353	Small mammal sp.		Unidentified small mammal (<500g)		21
Plantae	Flora	Acanthaceae	1004	Brunoniella pumilio		Dwarf Blue Trumpet		5
Plantae	Flora	Acanthaceae	1010	Pseuderanthemum variabile		Pastel Flower		8
Plantae	Flora	Alismataceae	1043	Alisma plantago- aquatica		Water Plantain		1
Plantae	Flora	Amaranthaceae	7896	Deeringia amaranthoides				1
Plantae	Flora	Anthericaceae	3556	Laxmannia gracilis		Slender Wire Lily		1
Plantae	Flora	Anthericaceae	3567	Sowerbaea juncea		Vanilla Plant		1
Plantae	Flora	Anthericaceae	3572	Thysanotus juncifolius				1
Plantae	Flora	Anthericaceae	7355	Tricoryne elatior		Yellow Autumn-lily		2
	Flora		2266	Aphanopetalum		Gum Vine		7
Plantae	FIORA	Aphanopetalacea e	2200	resinosum		Gum vine		/
Plantae	Flora	Apiaceae	1095	Actinotus minor		Lesser Flannel Flower		7
Plantae	Flora	Apiaceae	11823	Apium prostratum var. filiforme				1
Plantae	Flora	Apiaceae	1106	Centella asiatica		Indian Pennywort		2
Plantae	Flora	Apiaceae	11195	Cyclospermum	*	Slender Celery		1
-				leptophyllum		,		
Plantae	Flora	Apiaceae	1108	Daucus carota	*	Wild Carrot		1
Plantae	Flora	Apiaceae	7959	Hydrocotyle acutiloba				1
Plantae	Flora	Apiaceae	1123	Hydrocotyle bonariensis	*			1
Plantae	Flora	Apiaceae	1126	Hydrocotyle geraniifolia		Forest Pennywort		3
Plantae	Flora	Apiaceae	1128	Hydrocotyle laxiflora		Stinking Pennywort		2
Plantae	Flora	Apiaceae	1120	Hydrocotyle tripartita		Pennywort		1
Plantae	Flora	Apiaceae	1132	Platysace lanceolata		Shrubby Platysace		9
Plantae	Flora	Apiaceae	1144	Xanthosia atkinsoniana		Smassy hatysate		1
						Moolly Vanthasia		
Plantae	Flora	Apiaceae	1162	Xanthosia pilosa		Woolly Xanthosia		11
Plantae	Flora	Apiaceae	1163	Xanthosia tridentata	بل	Rock Xanthosia		1
Plantae	Flora	Apocynaceae	11047	Araujia sericifera	Ť	Moth Vine		2
Diantaa	Flora	Apocynaceae	1231	Marsdenia flavescens		Hairy Milk Vine		1
Plantae	Flora	Apocynaceae	1234	Marsdenia rostrata		Milk Vine		15
		Apocynaceae	1235	Marsdenia suaveolens		Scented Marsdenia		10
Plantae	Flora		1177	Parsonsia brownii		Mountain Silkpod		2
Plantae Plantae	Flora Flora	Apocynaceae	1177					
Plantae Plantae Plantae		Apocynaceae Apocynaceae	1177	Parsonsia straminea		Common Silkpod		10
Plantae Plantae Plantae Plantae	Flora					Common Silkpod Bearded Tylophora		
Plantae Plantae Plantae Plantae Plantae	Flora Flora	Apocynaceae	1185	Parsonsia straminea		•		10
Plantae Plantae Plantae Plantae Plantae Plantae Plantae Plantae	Flora Flora Flora	Apocynaceae Apocynaceae	1185 1240	Parsonsia straminea Tylophora barbata		Bearded Tylophora		10 13

Plantae	Flora	Araliaceae	1206	Cephalaralia cephalobotrys		Climbing Panax		1
Plantae	Flora	Araliaceae	1207	Hedera helix	*	English Ivy		1
Plantae	Flora	Araliaceae	1154	Trachymene incisa		Trachymene		1
Plantae	Flora	Arecaceae	1221	Livistona australis		Cabbage Palm	Р	12
Plantae	Flora	Asparagaceae	3517	Arthropodium		Pale Vanilla-lily		1
. Idirita e			001/	milleflorum				-
Plantae	Flora	Asparagaceae	PROT	Protasparagus spp.	*			1
Plantae	Flora	Asphodelaceae	3540	Dianella caerulea		Blue Flax-lily		6
Plantae	Flora	Asphodelaceae	6811	Dianella caerulea var.				1
				assera				
Plantae	Flora	Asphodelaceae	6700	Dianella caerulea var.				15
Plantae	Flows	Assessed	7007	caerulea Dianella caerulea var.				2
Plantae	Flora	Asphodelaceae	7337	producta				3
Plantae	Flora	Aspleniaceae	8033	Asplenium flabellifolium		Necklace Fern		3
Plantae	Flora	Asteraceae	1270	Anthemis cotula	*	Stinking Mayweed		1
Plantae	Flora	Asteraceae	1283	Bidens pilosa	*	Cobbler's Pegs		10
Plantae	Flora	Asteraceae	1363	Cassinia aureonitens			Р	1
Plantae	Flora	Asteraceae	1400	Cirsium vulgare	*	Spear Thistle	r	3
Plantae	Flora		1400	-	*	Flaxleaf Fleabane		
		Asteraceae		Conyza bonariensis	*	Flaxieal Fleabane		1
Plantae	Flora	Asteraceae	CONY	Conyza spp.		T U.O. L		2
Plantae	Flora	Asteraceae	10442	Conyza sumatrensis	*	Tall fleabane		4
Plantae	Flora	Asteraceae	13745	Coronidium elatum				3
Plantae	Flora	Asteraceae	1412	Cotula australis		Common Cotula		1
Plantae	Flora	Asteraceae	15365	Cyanthillium cinereum	*			1
Disector	C la va	A . t	0600	var. cinereum		Chan Cardana ad		1
Plantae	Flora	Asteraceae	9690	Euchiton sphaericus	ب د	Star Cudweed		1
Plantae	Flora	Asteraceae	12748	Gamochaeta purpurea	т 	Purple Cudweed		2
Plantae	Flora	Asteraceae	9111	Gazania rigens	*			1
Plantae	Flora	Asteraceae	1494	Helichrysum		Satin Everlasting		1
Plantae	Flora	Asteraceae	8788	leucopsideum Hypochaeris radicata	*	Catsear		8
	Flora					Blue Bottle-daisy		
Plantae		Asteraceae	1551	Lagenifera stipitata		•		3
Plantae	Flora	Asteraceae	1617	Olearia tomentosa		Toothed Daisy-bush		10
Plantae	Flora	Asteraceae	1618	Olearia viscidula		Wallaby Weed		6
Plantae	Flora	Asteraceae	8884	Onopordum acanthium subsp. acanthium	*	Scotch Thistle		2
Plantae	Flora	Asteraceae	9404	Ozothamnus				2
Tantac	Tiora	Asteraceae	5404	argophyllus				2
Plantae	Flora	Asteraceae	8557	Ozothamnus		White Dogwood		6
				diosmifolius				
Plantae	Flora	Asteraceae	OZOT	Ozothamnus spp.				1
Plantae	Flora	Asteraceae	6465	Senecio	*	Fireweed		3
Plantae	Flora	Asteraceae	1671	madagascariensis Senecio minimus				1
Plantae	Flora	Asteraceae	1680	Senecio velleioides				5
	Flora					Indian Weed		7
Plantae	FIORA	Asteraceae	8789	Sigesbeckia orientalis subsp. orientalis		Indian weed		/
Plantae	Flora	Asteraceae	7851	Soliva sessilis	*	Bindyi		1
Plantae	Flora	Asteraceae	1690	Sonchus oleraceus	*	Common Sowthistle		1
Plantae	Flora	Asteraceae	11377	Xerochrysum		Golden Everlasting		1
		, is conducted		bracteatum				-
Plantae	Flora	Bignoniaceae	1740	Pandorea pandorana		Wonga Wonga Vine		13
Plantae	Flora	Bignoniaceae	10485	Pandorea pandorana		Wonga Wonga Vine		1
				subsp. pandorana				
Plantae	Flora	Blandfordiaceae	3529	Blandfordia nobilis		Christmas Bells	Р	4
Plantae	Flora	Blechnaceae	8051	Blechnum camfieldii				1
Plantae	Flora	Blechnaceae	8052	Blechnum		Gristle Fern		20
Plantae	Flora	Blechnaceae	7760	cartilagineum Blechnum minus		Soft Water Fern		1
Plantae	Flora	Blechnaceae	14900	Blechnum		Soft Water Fern		17
Tuntae	nora	Diecimaceae	14000	neohollandicum				1,
Plantae	Flora	Blechnaceae	8058	Blechnum nudum		Fishbone Water Fern		4
Plantae	Flora	Blechnaceae	8060	Blechnum patersonii		Strap Water Fern		1
Plantae	Flora	Blechnaceae	10519	Blechnum patersonii				2
				subsp. patersonii				
Plantae	Flora	Blechnaceae	14901	Blechnum spinulosum		Small Rasp Fern		1
Plantae	Flora	Blechnaceae	8063	Blechnum wattsii		Hard Water Fern		1
Plantae	Flora	Boraginaceae	1747	Cynoglossum australe				1
Plantae	Flora	Boraginaceae	7370	Ehretia acuminata var.		Koda		3
		-		acuminata				
Plantae	Flora	Callitrichaceae	1909	Callitriche stagnalis	*	Common Starwort		1

Plantae	Flora	Campanulaceae	10465	Lobelia anceps				3
Plantae	Flora	Campanulaceae	14415	Lobelia purpurascens		whiteroot		5
Plantae	Flora	Campanulaceae	1934	Wahlenbergia gracilis		Sprawling Bluebell		2
Plantae	Flora	Caryophyllaceae	1979	Polycarpon tetraphyllum	*	Four-leaved Allseed		1
Plantae	Flora	Caryophyllaceae	7021	Silene gallica var. quinquevulnera	*	Five-wounded Catchfly		1
Plantae	Flora	Caryophyllaceae	2004	Stellaria flaccida				4
Plantae	Flora	Casuarinaceae	2010	Allocasuarina distyla				4
Plantae	Flora	Casuarinaceae	2012	Allocasuarina littoralis		Black She-Oak		28
Plantae	Flora	Casuarinaceae	2015	Allocasuarina paludosa				1
Plantae	Flora	Casuarinaceae	2022	Casuarina glauca		Swamp Oak		2
Plantae	Flora	Celastraceae	2026	Celastrus australis		Staff Climber		4
Plantae	Flora	Celastraceae	2029	Elaeodendron australe				4
Plantae	Flora	Celastraceae	12523	Elaeodendron australe				1
Plantae	Flora	Centrolepidaceae	2038	var. australe Centrolepis fascicularis				1
Plantae	Flora	Chenopodiaceae	1000	Atriplex cinerea		Grey Saltbush		4
Plantae	Flora	Chenopodiaceae	2084	Chenopodium album	*	Fat Hen		2
Plantae	Flora	Chenopodiaceae	2084	Einadia nutans		Climbing Saltbush		1
Plantae	Flora	Commelinaceae	2207	Aneilema biflorum		Carriering Saturdan		1
	Flora	Commelinaceae	2207	Commelina cyanea		Native Wandering law		
Plantae				·	*	Native Wandering Jew		2
Plantae	Flora	Commelinaceae	10508	Tradescantia fluminensis Calustonia marginata	*	Wandering Jew		1
Plantae	Flora	Convolvulaceae	2215	Calystegia marginata				1
Plantae	Flora	Convolvulaceae	2218	Calystegia soldanella				1
Plantae	Flora	Convolvulaceae	2219	Convolvulus arvensis	*	Field Bindweed		1
Plantae	Flora	Convolvulaceae	2220	Convolvulus erubescens		Pink Bindweed		1
Plantae	Flora	Convolvulaceae	2222	Dichondra repens		Kidney Weed		10
Plantae	Flora	Convolvulaceae	15127	Dichondra sp. Inglewood				1
Plantae	Flora	Convolvulaceae	2231	Polymeria calycina				1
Plantae	Flora	Crassulaceae	2242	Crassula sieberiana		Australian Stonecrop		2
Plantae	Flora	Cunoniaceae	2268	Bauera rubioides		River Rose		2
Plantae	Flora	Cunoniaceae	2270	Callicoma serratifolia		Black Wattle		15
Plantae	Flora	Cunoniaceae	2271	Ceratopetalum apetalum		Coachwood		9
Plantae	Flora	Cunoniaceae	2272	Ceratopetalum gummiferum		Christmas Bush		9
Plantae	Flora	Cunoniaceae	2275	Schizomeria ovata		Crabapple	-	2
Plantae	Flora	Cyatheaceae	8074	Cyathea australis		Rough Treefern	Р	9
Plantae	Flora	Cyperaceae	2305	Bolboschoenus caldwellii				1
Plantae	Flora	Cyperaceae	2310	Carex appressa		Tall Sedge		3
Plantae	Flora	Cyperaceae	2313	Carex breviculmis				1
Plantae	Flora	Cyperaceae	9019	Carex brunnea		Greater Brown Sedge		1
Plantae	Flora	Cyperaceae	2321	Carex fascicularis		Tassel Sedge		1
Plantae	Flora	Cyperaceae	2331	Carex longebrachiata				13
Plantae	Flora	Cyperaceae	CARE	Carex spp.				6
Plantae	Flora	Cyperaceae	2347	Cyathochaeta diandra				5
Plantae	Flora	Cyperaceae	2353	Cyperus brevifolius	*			2
Plantae	Flora	Cyperaceae	2383	Cyperus lucidus		Leafy Flat Sedge		3
Plantae	Flora	Cyperaceae	CYPE	Cyperus spp.				1
Plantae	Flora	Cyperaceae	2403	Cyperus tetraphyllus				2
Plantae	Flora	Cyperaceae	2431	Gahnia aspera		Rough Saw-sedge		1
Plantae	Flora	Cyperaceae	2439	Gahnia melanocarpa		Black Fruit Saw-sedge		9
Plantae	Flora	Cyperaceae	2442	Gahnia sieberiana		Red-fruit Saw-sedge	Р	7
Plantae	Flora	Cyperaceae	GAHN	Gahnia spp.				5
Plantae	Flora	Cyperaceae	2445	Gymnoschoenus sphaerocephalus		Button Grass		3
Plantae	Flora	Cyperaceae	2448	Isolepis cernua		Nodding Club-rush		1
Plantae	Flora	Cyperaceae	2454	Isolepis inundata		Club-rush		2
Plantae	Flora	Cyperaceae	2460	Isolepis prolifera	*			3
Plantae	Flora	Cyperaceae	8379	Lepidosperma elatius				2
Plantae	Flora	Cyperaceae	2465	Lepidosperma filiforme				18
Plantae	Flora	Cyperaceae	6402	Lepidosperma laterale		Variable Sword-sedge		20

Plantae	Flora	Cyperaceae	2469	Lepidosperma limicola				1	
Plantae	Flora	Cyperaceae	LEPD	Lepidosperma spp.				24	
Plantae	Flora	Cyperaceae	2475	Lepidosperma urophorum				28	
Plantae	Flora	Cyperaceae	15320	Machaerina articulata	Jointed Twig-rush			1	
Plantae	Flora	Cyperaceae	15321	Machaerina gunnii				1	
lantae	Flora	Cyperaceae	8956	Ptilothrix deusta				3	
lantae	Flora	Cyperaceae	2490	Schoenoplectus validus				2	
Plantae	Flora	Cyperaceae	2495	Schoenus ericetorum				3	
Plantae	Flora	Cyperaceae	2500	Schoenus melanostachys				2	
Plantae	Flora	Cyperaceae	2508	Schoenus villosus				4	
Plantae	Flora	Davalliaceae	8086	Arthropteris tenella				1	
Plantae	Flora	Davalliaceae	10647	Davallia solida var. pyxidata	Hare's Foot Fern			1	
Plantae	Flora	Dennstaedtiaceae	7271	Histiopteris incisa	Bat's Wing Fern			1	
Plantae	Flora	Dennstaedtiaceae	7385	Hypolepis glandulifera	Downy Ground Fern			3	
Plantae	Flora	Dennstaedtiaceae	7749	Hypolepis muelleri	Harsh Ground Fern			4	
Plantae	Flora	Dennstaedtiaceae	6403	Pteridium esculentum	Bracken			25	
Plantae	Flora	Dicksoniaceae	8341	Calochlaena dubia	Rainbow Fern			30	
Plantae	Flora	Dilleniaceae	2527	Hibbertia aspera	Rough Guinea Flower			10	
lantae	Flora	Dilleniaceae	2532	Hibbertia dentata	Twining Guinea Flower			7	
Plantae	Flora	Dilleniaceae	10863	Hibbertia empetrifolia				3	
Plantae	Flora	Dilleniaceae	2543	subsp. empetrifolia Hibbertia pedunculata				1	
lantae	Flora	Dilleniaceae	2545	Hibbertia riparia				1	
lantae	Flora	Dilleniaceae	2546	Hibbertia rufa	Brown Guinea Flower			1	
lantae	Flora	Dilleniaceae	2548	Hibbertia scandens	Climbing Guinea Flower			15	
lantae	Flora	Droseraceae	2548	Drosera binata	Forked Sundew			1	
			2561		Forked Sundew				
lantae lantae	Flora Flora	Droseraceae Dryopteridaceae	8015	Drosera spatulata Lastreopsis	Trim Shield Fern			7 5	
lantae	Flora	Dryopteridaceae	11102	decomposita Lastreopsis microsora	Creeping Shield Fern			3	
Plantae	Flora	Dryopteridaceae	8023	subsp. microsora Polystichum australiense	Harsh Shield Fern			2	
Plantae	Flora	Ebenaceae	2562	Diospyros australis	Black Plum			5	
lantae	Flora	Elaeocarpaceae	2574	Elaeocarpus reticulatus	Blueberry Ash			21	
Plantae	Flora	Elaeocarpaceae	6214	Tetratheca thymifolia	Black-eyed Susan			16	
lantae	Flora	Ericaceae	2581	Acrotriche divaricata	,			4	
Plantae	Flora	Ericaceae	ACRT	Acrotriche spp.				1	
Plantae	Flora	Ericaceae	2589	Dracophyllum secundum				1	
Plantae	Flora	Ericaceae	7850	Epacris calvertiana var. calvertiana				1	
Plantae	Flora	Ericaceae	15212	Epacris gnidioides	Budawangs Cliff-heath	V	V	2	×
Plantae	Flora	Fricaçõo	2599	Epacris microphylla	Coral Heath			6	
	Flora	Ericaceae Ericaceae	2602		Blunt-leaf Heath			6	
lantae				Epacris obtusifolia Epacris paludosa					
lantae	Flora	Ericaceae	2603	Epacris paludosa Epacris sop	Swamp Heath			1	
Plantae	Flora	Ericaceae	EPAC	Epacris spp.	Decard bacth			1	
lantae	Flora	Ericaceae	2610	Leucopogon amplexicaulis	Beard-heath			1	
Plantae	Flora	Ericaceae	2616	Leucopogon ericoides	Pink Beard-heath			5	
Plantae	Flora	Ericaceae	2617	Leucopogon esquamatus				4	
Plantae	Flora	Ericaceae	2623	Leucopogon juniperinus	Prickly Beard-heath			14	
Plantae	Flora	Ericaceae	2624	Leucopogon lanceolatus				4	
Plantae	Flora	Ericaceae	6425	Leucopogon lanceolatus var. lanceolatus				9	
Plantae	Flora	Ericaceae	2631	Leucopogon neoanglicus				4	
Plantae	Flora	Ericaceae	2639	Leucopogon virgatus				1	
lantae	Flora	Ericaceae	2642	Lissanthe strigosa	Peach Heath			1	
Plantae	Flora	Ericaceae	2647	Monotoca elliptica	Tree Broom-heath			1	
lantae	Flora	Ericaceae	2649	Monotoca scoparia				3	
lantae	Flora	Ericaceae	2654	Sprengelia incarnata	Pink Swamp Heath	Р		6	
	Flora	Ericaceae	2664	Woollsia pungens				5	
lantae				· -					
Plantae Plantae	Flora	Escalloniaceae	3227	Polyosma cunninghamii	Featherwood			1	

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Pintere Pi			•					
Pintag Pintag <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>					-			
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Pintate Finitate Pintate <	Plantae	Flora	Euphorbiaceae	11947				1
Pintel Fin Relationship 1400 Sono strainginging 1 Assert Cash 2 Pintel No Relationship No Assert Cash 2 3 Pintel No Relationship 2 Assert Cash 3 3 Pintel No Relationship 2 Single Assert 3 3 Pintel No Relationship 2 Single Assert 3 3 Pintel No Relationship 2 Single Assert 3 3 Pintel Relationship No Single Assert 3 3 3 Pintel Relationship Relationship	Plantae	Flora	Eupomatiaceae	2768			Bolwarra	14
Planta Planta <td>Plantae</td> <td>Flora</td> <td>Fabaceae</td> <td>14602</td> <td></td> <td></td> <td></td> <td>1</td>	Plantae	Flora	Fabaceae	14602				1
Uccentrol Uccentrol Image Find or Palaces Processes Palaces Proc			(Caesalpinioideae)					
Uccentrol Uccentrol Image Find or Palaces Processes Palaces Proc		-		10505		۰		
Platze Fora Fabaces P270 Advise ricolarie Second Boxiaea 1 Plantze Fora Fabaces P278 Acciare restor Second Boxiaea 1 Plantze Fora Fabaces P278 Acciare restor Variable Boxiaea 1 Plantze Fora Fabaces P278 Acciare obcordniz Second Boxiaea 1 Plantze Fora Fabaces P278 Acciare obcordniz Second Boxiaea 1 Plantze Fora Fabaces P281 Boxiare obcordniz Second Boxiaea 1 Plantze Fora Fabaces P281 Boxiare obcordniz Second Boxiaea 1 Plantze Fora Fabaces P281 Derivisa defator 1 Plantze Fora Fabaces P281 Derivisa defator 1 Plantze Fora Fabaces P280 Dihnyna bratonia 1 Plantze Fora <td< td=""><td>Plantae</td><td>Flora</td><td></td><td>10505</td><td>Senna septemtrionalis</td><td>Ŧ</td><td>Arsenic Bush</td><td>1</td></td<>	Plantae	Flora		10505	Senna septemtrionalis	Ŧ	Arsenic Bush	1
PintragePintra			(eacsaipinioracae)					
Planta Fibra orage Probage	Plantae	Flora		2770	Aotus ericoides			11
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Pintel Pinte	Plantae	Flora		2778	Bossiaea ensata		Sword Bossiaea	1
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PlantaeFloraFabaceae (Faboideae)12079Lotus subbiflorus*Hairy Birds-foot Trefoil1PlantaeFloraFabaceae (Faboideae)8928Lotus uliginosus*Birds-foot Trefoil1PlantaeFloraFabaceae (Faboideae)2922Medicago polymorpha*Burr Medic1PlantaeFloraFabaceae (Faboideae)2922Medicago polymorpha*Burr Medic1PlantaeFloraFabaceae (Faboideae)2938Mirbelia rubiifoliaHeathy Mirbelia5PlantaeFloraFabaceae (Faboideae)2949Oxylobium cordifolium (Faboideae)Heart-leaved Shaggy Pea (Faboideae)2PlantaeFloraFabaceae (Faboideae)2961Platylobium formosum2	Plantae	Flora	Fabaceae	2898	Kennedia rubicunda		Dusky Coral Pea	8
Image: constraint of the constra	Diameter			40070		*	Heime Divide front The forth	
PlantaeFloraFabaceae (Faboideae)8928Lotus uliginosus*Birds-foot Trefoil1PlantaeFloraFabaceae (Faboideae)2922Medicago polymorpha (Faboideae)Burr Medic1PlantaeFloraFabaceae (Faboideae)2938Mirbelia rubiifoliaHeathy Mirbelia5PlantaeFloraFabaceae (Faboideae)2949Oxylobium cordifoliumHeart-leaved Shaggy Pea2PlantaeFloraFabaceae (Faboideae)2961Platylobium formosum12	Plantae	Flora		12079	Lotus subbiflorus	Ţ	Hairy Birds-toot Tretoil	1
(Faboideae)PlantaeFloraFabaceae (Faboideae)2922Medicago polymorphaMedicBurr Medic1PlantaeFloraFabaceae (Faboideae)2938Mirbelia rubiifoliaHeathy Mirbelia5PlantaeFloraFabaceae (Faboideae)2949Oxylobium cordifoliumHeart-leaved Shaggy Pea2PlantaeFloraFabaceae (Faboideae)2961Platylobium formosum2	Plantae	Flora		8928	Lotus uliginosus	*	Birds-foot Trefoil	1
PlantaeFloraFabaceae (Faboideae)2938Mirbelia rubiifoliaHeathy Mirbelia5PlantaeFloraFabaceae (Faboideae)2949Oxylobium cordifolium Oxylobium cordifoliumHeart-leaved Shaggy Pea2PlantaeFloraFabaceae (Faboideae)2961Platylobium formosum2			(Faboideae)		-			
PlantaeFloraFabaceae (Faboideae)2938Mirbelia rubiifoliaHeathy Mirbelia5PlantaeFloraFabaceae (Faboideae)2949Oxylobium cordifolium ordifoliumHeart-leaved Shaggy Pea2PlantaeFloraFabaceae (Faboideae)2961Platylobium formosum2	Plantae	Flora		2922	Medicago polymorpha	*	Burr Medic	1
Plantae Flora Fabaceae (Faboideae) 2949 Oxylobium cordifolium Heart-leaved Shaggy Pea 2 Plantae Flora Fabaceae (Faboideae) 2961 Platylobium formosum 2	Plantae	Flora		2020	Mirhelia ruhiifalia		Heathy Mirbelia	Ę
PlantaeFloraFabaceae (Faboideae)2949Oxylobium cordifoliumHeart-leaved Shaggy Pea2PlantaeFloraFabaceae2961Platylobium formosum2	Fiallide	FIUId		2330	אוויטבווע דעטווןטווע			J
Plantae Flora Fabaceae 2961 Platylobium formosum 2	Plantae	Flora	Fabaceae	2949	Oxylobium cordifolium		Heart-leaved Shaggy Pea	2
								_
	Plantae	Flora		2961	Platylobium formosum			2

Plantae	Flora	Fabaceae (Faboideae)	9354	Platylobium formosum subsp. formosum			2
Plantae	Flora	Fabaceae (Faboideae)	14702	Platylobium parviflorum		Small-flowered Flat-pea	2
Plantae	Flora	Fabaceae (Faboideae)	10705	Podolobium aciculiferum		Needle Shaggy Pea	1
Plantae	Flora	Fabaceae	9912	Podolobium ilicifolium		Prickly Shaggy Pea	7
Plantae	Flora	(Faboideae) Fabaceae	15315	Pullenia gunnii			1
Plantae	Flora	(Faboideae) Fabaceae	2977	Pultenaea blakelyi			3
Plantae	Flora	(Faboideae) Fabaceae	2985	Pultenaea daphnoides		Large-leaf Bush-pea	12
Plantae	Flora	(Faboideae) Fabaceae	2993	Pultenaea flexilis			2
Plantae	Flora	(Faboideae) Fabaceae	2997	Pultenaea hispidula			1
Plantae	Flora	(Faboideae) Fabaceae	3002	Pultenaea linophylla			-
		(Faboideae)					
Plantae	Flora	Fabaceae (Faboideae)	9223	Sphaerolobium minus			1
Plantae	Flora	Fabaceae (Faboideae)	3076	Trifolium dubium	*	Yellow Suckling Clover	1
Plantae	Flora	Fabaceae (Faboideae)	3085	Trifolium repens	*	White Clover	5
Plantae	Flora	Fabaceae (Faboideae)	TRIF	Trifolium spp.	*		1
Plantae	Flora	Fabaceae (Faboideae)	3093	Ulex europaeus	*	Gorse	1
Plantae	Flora	Fabaceae (Faboideae)	3097	Vicia sativa	*	Common vetch	1
Plantae	Flora	Fabaceae	3723	Acacia brownii		Heath Wattle	1
Plantae	Flora	(Mimosoideae) Fabaceae	3742	Acacia cognata		Narrow-leaf Bower Wattle	1
Plantae	Flora	(Mimosoideae) Fabaceae	3751	Acacia covenyi			1
Plantae	Flora	(Mimosoideae) Fabaceae	3758	Acacia dealbata		Silver Wattle	1
Plantae	Flora	(Mimosoideae) Fabaceae	3769	Acacia elongata		Swamp Wattle	6
Plantae	Flora	(Mimosoideae) Fabaceae	3773	Acacia filicifolia		Fern-leaved Wattle	1
Plantae	Flora	(Mimosoideae) Fabaceae	3792	Acacia implexa		Hickory Wattle	1
Plantae	Flora	(Mimosoideae) Fabaceae	10920	Acacia lanigera var.		Hairy Wattle	1
Plantae	Flora	(Mimosoideae) Fabaceae	3816	lanigera Acacia longifolia			9
	Flora	(Mimosoideae) Fabaceae	10790			Sudaou Coldon Wattle	3
Plantae		(Mimosoideae)		Acacia longifolia subsp. longifolia		Sydney Golden Wattle	
Plantae	Flora	Fabaceae (Mimosoideae)	3817	Acacia longissima		Long-leaf Wattle	1
Plantae	Flora	Fabaceae (Mimosoideae)	7028	Acacia mabellae		Mabel's Wattle	21
Plantae	Flora	Fabaceae (Mimosoideae)	3821	Acacia maidenii		Maiden's Wattle	5
Plantae	Flora	Fabaceae (Mimosoideae)	3823	Acacia mearnsii		Black Wattle	12
Plantae	Flora	Fabaceae (Mimosoideae)	3824	Acacia melanoxylon		Blackwood	3
Plantae	Flora	Fabaceae (Mimosoideae)	3834	Acacia myrtifolia		Red-stemmed Wattle	1
Plantae	Flora	Fabaceae (Mimosoideae)	3839	Acacia obtusifolia			31
Plantae	Flora	Fabaceae (Mimosoideae)	3847	Acacia parvipinnula		Silver-stemmed Wattle	1
Plantae	Flora	(Mimosoideae) Fabaceae (Mimosoideae)	3880	Acacia stricta		Straight Wattle	5
Plantae	Flora	Fabaceae	3881	Acacia suaveolens		Sweet Wattle	2
Plantae	Flora	(Mimosoideae) Fabaceae	3885	Acacia terminalis		Sunshine Wattle	2
Plantae	Flora	(Mimosoideae) Fabaceae	10793	Acacia terminalis subsp.			2
Plantae	Flora	(Mimosoideae) Fabaceae	3893	angustifolia Acacia ulicifolia		Prickly Moses	2
Plantae	Flora	(Mimosoideae) Geraniaceae	3148	Geranium homeanum			6
Plantae	Flora	Geraniaceae	10093	Geranium molle subsp. molle	*	Cranesbill Geranium	1
				IIIUIIE			

Plantae	Flora	Geraniaceae	3156	Geranium solanderi		Native Geranium		1
Plantae	Flora	Geraniaceae	8226	Geranium solanderi var. solanderi				1
Plantae	Flora	Geraniaceae	3157	Pelargonium australe		Native Storksbill		1
Plantae	Flora	Geraniaceae	3161	Pelargonium inodorum				2
Plantae	Flora	Gleicheniaceae	7138	Gleichenia dicarpa		Pouched Coral Fern		7
Plantae	Flora	Gleicheniaceae	6708	Gleichenia microphylla		Scrambling Coral Fern		1
Plantae	Flora	Gleicheniaceae	11175	Sticherus flabellatus		Umbrella Fern	Р	4
				var. flabellatus				
Plantae	Flora	Gleicheniaceae	7035	Sticherus lobatus		Spreading Shield Fern		2
Plantae	Flora	Goodeniaceae	3174	Dampiera stricta				5
Plantae	Flora	Goodeniaceae	3175	Goodenia bellidifolia				1
Plantae	Flora	Goodeniaceae	8711	Goodenia bellidifolia subsp. bellidifolia				4
Plantae	Flora	Goodeniaceae	3184	Goodenia glomerata				1
Plantae	Flora	Goodeniaceae	3190	Goodenia heterophylla				1
Plantae	Flora	Goodeniaceae	8755	Goodenia heterophylla				2
				subsp. eglandulosa				
Plantae	Flora	Goodeniaceae	3192	Goodenia ovata		Hop Goodenia		7
Plantae	Flora	Goodeniaceae	3208	Scaevola ramosissima		Purple Fan-flower		1
Plantae	Flora	Grammitidaceae	10518	Grammitis billardierei		Finger Fern		1
Diantaa	Flore		6425	l la como de muno				4
Plantae	Flora	Haemodoraceae	6435	Haemodorum corymbosum				4
Plantae	Flora	Haloragaceae	3241	Gonocarpus humilis				1
Plantae	Flora	Haloragaceae	8649	Gonocarpus micranthus				4
		-		subsp. micranthus				
Plantae	Flora	Haloragaceae	GONO	Gonocarpus spp.		Raspwort		1
Plantae	Flora	Haloragaceae	3247	Gonocarpus tetragynus		Poverty Raspwort		8
Plantae	Flora	Haloragaceae	3248	Gonocarpus teucrioides		Germander Raspwort		10
Plantae	Flora	Hydrocharitaceae	10855	Ottelia ovalifolia subsp.		Swamp Lily		1
Plantae	Flora	Hymenophyllacea	8107	ovalifolia Hymenophyllum		Common Filmy Fern		1
Flantae	TIOTA	e	8107	cupressiforme		common rinny renn		I
Plantae	Flora	Iridaceae	3298	Libertia paniculata		Branching Grass-flag		2
Plantae	Flora	Iridaceae	3301	Patersonia glabrata		Leafy Purple-flag		5
Plantae	Flora	Iridaceae	3303	Patersonia sericea		Silky Purple-Flag		8
Plantae	Flora	Juncaceae	3325	Juncus cognatus	*			1
Plantae	Flora	Juncaceae	3338	Juncus pallidus				1
Plantae	Flora	Juncaceae	3342	Juncus prismatocarpus				2
Plantae	Flora	Juncaceae	JUNC	Juncus spp.				1
Plantae	Flora	Juncaceae	3350	Juncus usitatus				5
Plantae	Flora	Juncaginaceae	TRIG	Triglochin spp.				1
Plantae	Flora	Lamiaceae	6243	Chloanthes stoechadis				1
Plantae	Flora	Lamiaceae	6484	Clerodendrum tomentosum		Hairy Clerodendrum		10
Plantae	Flora	Lamiaceae	3386	Mentha pulegium	*	Pennyroyal		1
Plantae	Flora	Lamiaceae	3396	Plectranthus graveolens		i ciniyi oyu		2
Plantae	Flora	Lamiaceae	3397	Plectranthus parviflorus				7
Plantae	Flora	Lamiaceae	3412	Prostanthera incana		Velvet Mint-bush		1
Plantae	Flora	Lamiaceae	3413	Prostanthera incisa		Cut-leaved Mint-bush		3
Plantae	Flora	Lamiaceae	3415	Prostanthera lasianthos		Victorian Christmas Bush		1
Plantae	Flora	Lamiaceae	10244	Prostanthera saxicola				1
				var. montana				
Plantae	Flora	Lamiaceae	PROS	Prostanthera spp.				3
Plantae	Flora	Lamiaceae	7166	Prostanthera violacea		Violet Mint-bush		8
Plantae	Flora	Lamiaceae	3440	Prunella vulgaris	*	Self-heal		1
Plantae	Flora	Lamiaceae	3450	Stachys arvensis	*	Stagger Weed		3
Plantae	Flora	Lauraceae	3467	Cassytha glabella				4
Plantae	Flora	Lauraceae	3469	Cassytha pubescens		Downy Dodder-laurel		10
Plantae	Flora	Lauraceae	3479	Cryptocarya glaucescens		Jackwood		4
Plantae	Flora	Lindsaeaceae	6406	Lindsaea linearis		Screw Fern		9
Plantae	Flora	Lindsaeaceae	6401	Lindsaea microphylla		Lacy Wedge Fern		9
Plantae	Flora	Loganiaceae	3588	Logania albiflora				1
Plantae	Flora	Loganiaceae	10201	Mitrasacme pilosa var.				1
		-		pilosa				
Plantae	Flora	Loganiaceae	3595	Mitrasacme				5
Plantae	Flora	Loganiaceae	15351	polymorpha Orianthera pusilla				1
Plantae	Flora	Lomandraceae	6304	Lomandra glauca		Pale Mat-rush		5
Plantae	Flora	Lomandraceae	6305	Lomandra gracilis				2
Plantae	Flora	Lomandraceae	6308	Lomandra longifolia		Spiny-headed Mat-rush		27
Tuntae	illia	Lonianuraleae	0300	Lomanara longijulu		Spiny neaded Mathush		21

Plantae	Flora	Lomandraceae	8802	Lomandra multiflora subsp. multiflora		Many-flowered Mat-rush		1
Plantae	Flora	Lomandraceae	6312	Lomandra obliqua				2
Plantae	Flora	Luzuriagaceae	6015	Eustrephus latifolius		Wombat Berry		27
Plantae	Flora	Luzuriagaceae	6016	Geitonoplesium		Scrambling Lily		10
		-		cymosum		<u> </u>	2	
Plantae	Flora	Lycopodiaceae	6409	Lycopodium deuterodensum		Bushy Clubmoss	Р	1
Plantae	Flora	Lythraceae	3623	Lythrum hyssopifolia		Hyssop Loosestrife		1
Plantae	Flora	Malvaceae	6128	Brachychiton populneus		Kurrajong		1
Plantae	Flora	Malvaceae	6130	Commersonia fraseri		Brush Kurrajong		8
Plantae	Flora	Malvaceae	3649	Howittia trilocularis				3
Plantae	Flora	Malvaceae	6139	Lasiopetalum ferrugineum				1
Plantae	Flora	Malvaceae	9008	Lasiopetalum ferrugineum var. ferrugineum				4
Plantae	Flora	Malvaceae	3660	Modiola caroliniana	*	Red-flowered Mallow		1
Plantae	Flora	Malvaceae	6151	Seringia arborescens		Red nowered Mailow		1
Plantae	Flora	Malvaceae	3673	Sida rhombifolia	*	Paddy's Lucerne		6
Plantae	Flora	Malvaceae	SIDA	-		Fauly's Luceffie		
Plantae	Flora	Meliaceae	11178	Sida spp. Synoum glandulosum		Scentless Rosewood		1 12
				subsp. glandulosum				
Plantae	Flora	Meliaceae	8839	Toona ciliata		Red Cedar		3
Plantae	Flora	Menispermaceae	3686	Legnephora moorei		Round-leaf Vine		2
Plantae	Flora	Menispermaceae	3688	Sarcopetalum		Pearl Vine		8
Plantae	Flora	Menispermaceae	3690	harveyanum Stephania japonica		Snake vine		3
Plantae	Flora	Menispermaceae	8428	Stephania japonica var.		Snake Vine		4
. lande		memopermaceae	0.20	discolor				•
Plantae	Flora	Monimiaceae	3913	Doryphora sassafras		Sassafras		6
Plantae	Flora	Monimiaceae	3914	Hedycarya angustifolia		Native Mulberry		1
Plantae	Flora	Monimiaceae	3915	Palmeria scandens		Anchor Vine		4
Plantae	Flora	Monimiaceae	3918	Wilkiea huegeliana		Veiny Wilkiea		1
Plantae	Flora	Moraceae	7479	Ficus coronata		Creek Sandpaper Fig		1
Plantae	Flora	Moraceae	7301	Ficus obliqua		Small-leaved Fig		1
Plantae	Flora	Moraceae	11720	Ficus rubiginosa f. rubiginosa				1
Plantae	Flora	Moraceae	3928	Maclura cochinchinensis		Cockspur Thorn		2
Plantae	Flora	Moraceae	3931	Streblus brunonianus		Whalebone Tree		6
Plantae	Flora	Moraceae	10416	Trophis scandens		Burny Vine		1
Plantae	Flora	Myrtaceae	3968	Acmena smithii		Lilly Pilly		14
Plantae	Flora	Myrtaceae	3971	Angophora floribunda		Rough-barked Apple		6
Plantae	Flora	Myrtaceae	3984	Backhousia myrtifolia		Grey Myrtle		9
Plantae	Flora	Myrtaceae	3986	Baeckea brevifolia				2
Plantae	Flora	Myrtaceae	3995	Baeckea imbricata				6
Plantae	Flora	Myrtaceae	3997	Baeckea linifolia		Weeping Baeckea	Р	5
Plantae	Flora	Myrtaceae	9687	Corymbia gummifera		Red Bloodwood		29
Plantae	Flora	Myrtaceae	9692	Corymbia maculata		Spotted Gum		1
Plantae	Flora	Myrtaceae	4030	Darwinia leptantha				6
Plantae	Flora	Myrtaceae	4037	Eucalyptus		Blue-leaved Stringybark		2
Plantae	Flora	Myrtaceae	4040	agglomerata Eucalyptus amplifolia		Cabbage Gum		2
Plantae	Flora	Myrtaceae	4040	Eucalyptus botryoides		Bangalay		13
Plantae	Flora	Myrtaceae	9959	Eucalyptus botryoides		Daligalay		5
Plantae	Flora	Myrtaceae	4073	<> saligna Eucalyptus		Yertchuk		3
Plantae	Flora	Myrtaceae	4087	consideniana Eucalyptus eugenioides		Thin-leaved Stringybark		6
Plantae	Flora	Myrtaceae	4097	Eucalyptus globoidea		White Stringybark		13
Plantae	Flora	Myrtaceae	4117	Eucalyptus ligustrina		Privet-leaved Stringybark		3
Plantae	Flora	Myrtaceae	4118	Eucalyptus longifolia		Woollybutt		1
Plantae	Flora	Myrtaceae	4132	Eucalyptus muelleriana		Yellow Stringybark		6
Plantae	Flora	Myrtaceae	10029	Eucalyptus obstans		Port Jackson Mallee		2
Plantae	Flora	Myrtaceae	4149	Eucalyptus paniculata		Grey Ironbark		4
Plantae	Flora	Myrtaceae	8831	Eucalyptus paniculata				4
Plantae	Flora	Myrtaceae	4155	subsp. paniculata Eucalyptus pilularis		Blackbutt		17
Plantae	Flora	Myrtaceae	4155	Eucalyptus piperita		Sydney Peppermint		36
Plantae	Flora	Myrtaceae	4150	Eucalyptus pipenta		Grey Gum		2
Plantae	Flora	Myrtaceae	4165	Eucalyptus		White-topped Box		4
Hantae	nora	wynaceae	7107	quadrangulata		Anne topped box		-

Plantae	Flora	Myrtaceae	4177	Eucalyptus saligna		Sydney Blue Gum			3	
Plantae	Flora	Myrtaceae	8950	Eucalyptus scias		Large-fruited Red			10	
Plantae	Flora	Myrtaceae	9954	Eucalyptus scias subsp.		Mahogany			18	
				callimastha						
Plantae	Flora	Myrtaceae	4178	Eucalyptus sclerophylla		Hard-leaved Scribbly Gum			1	
Plantae	Flora	Myrtaceae	4182	Eucalyptus sieberi		Silvertop Ash			22	
Plantae	Flora	Myrtaceae	8353	Eucalyptus sparsifolia		Narrow-leaved Stringybark			2	
Plantae	Flora	Myrtaceae	EUCA	Eucalyptus spp.					2	
Plantae	Flora	Myrtaceae	4189	Eucalyptus stricta		Blue Mountains Mallee Ash			10	
Plantae	Flora	Myrtaceae	4191	Eucalyptus tereticornis		Forest Red Gum			2	
Plantae	Flora	Myrtaceae	4204	Kunzea ambigua		Tick Bush	Р		9	
Plantae	Flora	Myrtaceae	4207	Kunzea capitata			Р		5	
Plantae	Flora	Myrtaceae	4221	Leptospermum juniperinum		Prickly Tea-tree			4	
Plantae	Flora	Myrtaceae	8399	Leptospermum morrisonii					2	
Plantae	Flora	Myrtaceae	7245	Leptospermum polygalifolium		Tantoon			23	
Plantae	Flora	Myrtaceae	8197	Leptospermum polygalifolium subsp. polygalifolium					2	
Plantae	Flora	Myrtaceae	9958	Leptospermum rotundifolium			Р		6	
Plantae	Flora	Myrtaceae	LEPT	Leptospermum spp.		Tea-tree			1	
Plantae	Flora	Myrtaceae	4239	Leptospermum squarrosum					4	
Plantae	Flora	Myrtaceae	8316	Leptospermum					1	
_				subglabratum						
Plantae	Flora	Myrtaceae	8486	Leptospermum		Slender Tea-tree			8	
Diantao	Flora	Murtacaaa	4247	trinervium					6	
Plantae	Flora	Myrtaceae		Melaleuca capitata		Swamp Danarbark				
Plantae	Flora	Myrtaceae	6391	Melaleuca ericifolia		Swamp Paperbark			1	
Plantae	Flora	Myrtaceae	4254	Melaleuca hypericifolia		Hillock bush			2	
Plantae	Flora	Myrtaceae	4257	Melaleuca linariifolia		Flax-leaved Paperbark			3	
Plantae	Flora	Myrtaceae	4263	Melaleuca squarrosa		Scented Paperbark		05	6	
Plantae	Flora	Myrtaceae	4283	Rhodamnia rubescens		Scrub Turpentine	E4A	CE	10	E T
Plantae	Flora	Myrtaceae	13751	Sannantha pluriflora					7	
Plantae	Flora	Myrtaceae	6688	Syncarpia glomulifera		Turpentine			75	
Plantae	Flora	Myrtaceae	10748	Syncarpia glomulifera subsp. glomulifera					2	
Plantae	Flora	Myrtaceae	6778	Syzygium australe		Brush Cherry			2	
Plantae	Flora	Myrtaceae	4296	Tristaniopsis collina		Mountain Water Gum			22	
Plantae	Flora	Myrtaceae	4297	Tristaniopsis laurina		Kanooka			5	
Plantae	Flora	Oleaceae	4312	Ligustrum lucidum	*	Large-leaved Privet			2	
Plantae	Flora	Oleaceae	4313	Ligustrum sinense	*	Small-leaved Privet			2	
Plantae	Flora	Oleaceae	4318	Notelaea longifolia		Large Mock-olive			6	
Plantae	Flora	Oleaceae	6423	Notelaea longifolia f. longifolia					11	
Plantae	Flora	Oleaceae	4322	Notelaea venosa		Veined Mock-olive			18	
Plantae	Flora	Oleaceae	4324	Olea europaea	*	Common Olive			10	
Plantae	Flora	Oleaceae	11220	Olea europaea subsp. cuspidata	*	African Olive			1	
Plantae	Flora	Onagraceae	4330	Epilobium hirtigerum					1	
Plantae	Flora	Orchidaceae	4353	Acianthus fornicatus		Pixie Caps	Р		2	
Plantae	Flora	Orchidaceae	ACIA	Acianthus spp.		Mosquito Orchid	P		1	
Plantae	Flora	Orchidaceae	4365	Bulbophyllum minutissimum			P		1	
Plantae	Flora	Orchidaceae	4389	Caleana major		Large Duck Orchid	Р		1	
Plantae	Flora	Orchidaceae	4394	Calochilus paludosus		Red Beard Orchid	P		1	
Plantae	Flora	Orchidaceae	13657	^Calochilus pulchellus		Pretty Beard Orchid	E1,P,2		12	×
Plantae	Flora	Orchidaceae	14091	Cestichis reflexa			Р		1	
Plantae	Flora	Orchidaceae	CHIL	Chiloglottis spp.			P		1	
Plantae	Flora	Orchidaceae	4415	^Cryptostylis hunteriana		Leafless Tongue Orchid	V,P,2	V	2	× 1 e li
Diantas	Flore	Orchidages	CDVT				D		2	
Plantae	Flora	Orchidaceae	CRYT	Cryptostylis spp.			Р		2	
Plantae	Flora	Orchidaceae	4417	Cryptostylis subulata		Large Tongue Orchid	Р		1	
Plantae	Flora	Orchidaceae	4419	Cymbidium suave		Snake Orchid	Р		23	
Plantae	Flora	Orchidaceae	4433	Dendrobium striolatum		Streaked Rock Orchid	Р		1	
	Flora	Orchidaceae	7888	Dipodium variegatum			Р		2	
Plantae Plantae	Flora	Orchidaceae	11258	^Genoplesium vernale		East Lynne Midge Orchid	V,P,2	V	6	× T

Plantae	Flora	Orchidaceae	4535	Pterostylis acuminata		Pointed Greenhood	Р	1
Plantae	Flora	Orchidaceae	4545	Pterostylis curta		Blunt Greenhood	Р	1
Plantae	Flora	Orchidaceae	PTER	Pterostylis spp.		Greenhood	Р	1
Plantae	Flora	Osmundaceae	8151	Todea barbara		King Fern	Р	1
Plantae	Flora	Oxalidaceae	4608	Oxalis articulata	*			1
Plantae	Flora	Oxalidaceae	4612	Oxalis chnoodes				2
Plantae	Flora	Oxalidaceae	4615	Oxalis exilis				
					*	Coursel		1
Plantae	Flora	Oxalidaceae	4622	Oxalis pes-caprae	*	Soursob		1
Plantae	Flora	Oxalidaceae	OXAL	Oxalis spp.				4
Plantae	Flora	Passifloraceae	4643	Passiflora edulis	*	Common Passionfruit		3
Plantae	Flora	Passifloraceae	4646	Passiflora herbertiana				1
Plantae	Flora	Phormiaceae	7664	Thelionema		Tufted Blue-lily		1
				caespitosum				
Plantae	Flora	Phyllanthaceae	2695	Breynia oblongifolia		Coffee Bush		14
Plantae	Flora	Phyllanthaceae	7866	Glochidion ferdinandi		Cheese Tree		1
Plantae	Flora	Phyllanthaceae	9360	Glochidion ferdinandi		Cheese Tree		2
				var. ferdinandi				
Plantae	Flora	Phyllanthaceae	2746	Phyllanthus gunnii				2
Plantae	Flora	Phyllanthaceae	8216	Phyllanthus hirtellus		Thyme Spurge		7
Plantae	Flora	Phyllanthaceae	2753	Poranthera corymbosa		, , , ,		1
Plantae	Flora	Phyllanthaceae	2754	Poranthera ericifolia				1
		•		-	*	In law ord		
Plantae	Flora	Phytolaccaceae	4658	Phytolacca octandra		Inkweed		4
Plantae	Flora	Pittosporaceae	4671	Billardiera scandens		Hairy Apple Berry		15
Plantae	Flora	Pittosporaceae	11204	Pittosporum		Orange Thorn		8
Diantes	Flows	Dittoor	4600	multiflorum		Dough Fruit Dittoor		10
Plantae	Flora	Pittosporaceae	4683	Pittosporum revolutum		Rough Fruit Pittosporum		10
Plantae	Flora	Pittosporaceae	4685	Pittosporum undulatum		Sweet Pittosporum		10
Plantae	Flora	Pittosporaceae	8623	Rhytidosporum				1
				procumbens				
Plantae	Flora	Plantaginaceae	4691	Plantago debilis		Shade Plantain		2
Plantae	Flora	Plantaginaceae	4699	Plantago lanceolata	*	Lamb's Tongues		6
Plantae	Flora	Plantaginaceae	4700	Plantago major	*	Large Plantain		2
Plantae	Flora	Plantaginaceae	6003	Veronica calycina		Hairy Speedwell		1
Plantae	Flora	Plantaginaceae	6009	Veronica plebeia		Trailing Speedwell		4
Plantae	Flora	Poaceae	4749	Anisopogon avenaceus		Oat Speargrass		2
Plantae	Flora	Poaceae	4750	Anthoxanthum	*	Sweet Vernal Grass		1
Flantae	Tiora	Foaceae	4750	odoratum		Sweet verhal drass		1
Plantae	Flora	Poaceae	ARIS	Aristida spp.				1
Plantae	Flora	Poaceae	4773	Aristida vagans		Threeawn Speargrass		1
	Flora		9603	Austrostipa pubescens		in ceawn speargrass		1
Plantae		Poaceae						
Plantae	Flora	Poaceae	AUSO	Austrostipa spp.				3
Plantae	Flora	Poaceae	4779	Avena barbata	*	Bearded Oats		1
Plantae	Flora	Poaceae	11194	Axonopus fissifolius	*	Narrow-leafed Carpet		3
	_1	-		- · ·	JL.	Grass		
Plantae	Flora	Poaceae	4801	Briza minor	*	Shivery Grass		1
Plantae	Flora	Poaceae	14903	Cenchrus clandestinus	*	Kikuyu Grass		8
Plantae	Flora	Poaceae	14862	Cenchrus longisetus	*	Feathertop, White Foxtail		1
Plantae	Flora	Poaceae	6655	Chloris virgata	*	Feathertop Rhodes Grass		1
Plantae	Flora	Poaceae	6540	Cynodon dactylon		Common Couch		2
Plantae	Flora	Poaceae	4881	Deyeuxia decipiens		Devious Bent-grass		2
Plantae	Flora	Poaceae	4891	Deyeuxia quadriseta				1
Plantae	Flora		4891	Dichelachne micrantha		Shorthair Plumegrass		2
		Poaceae				Shorthan Fluthegrass		
Plantae	Flora	Poaceae	9151	Dichelachne sieberiana				1
Plantae	Flora	Poaceae	4913	Digitaria parviflora		Small-flowered Finger		1
Diante -	Flage	Deeess	4020	Echinonessa		Grass		1
Plantae	Flora	Poaceae	4929	Echinopogon		Bushy Hedgehog-grass		1
Plantae	Flora	Poaceae	4934	caespitosus Echinopogon ovatus		Forest Hedgehog Grass		2
					*			
Plantae	Flora	Poaceae	4937	Ehrharta erecta		Panic Veldtgrass		1
Plantae	Flora	Poaceae	4938	Ehrharta longiflora	*	Annual Veldtgrass		1
Plantae	Flora	Poaceae	4946	Entolasia marginata		Bordered Panic		13
Plantae	Flora	Poaceae	4947	Entolasia stricta		Wiry Panic		38
Plantae	Flora	Poaceae	4955	Eragrostis elongata		Clustered Lovegrass		1
Plantae	Flora	Poaceae	4960	Eragrostis leptostachya		Paddock Lovegrass		4
Plantae	Flora	Poaceae	4970	Eragrostis pilosa	*	Soft Lovegrass		1
Plantae	Flora	Poaceae	7871	Hemarthria uncinata				1
Tantae	illia		/0/1	var. uncinata				Ŧ
Plantae	Flora	Poaceae	5005	Holcus lanatus	*	Yorkshire Fog		5
						-		
Plantae	Flora	Poaceae	6803	Imperata cylindrica		Blady Grass		11
Plantae	Flora	Poaceae	11388	Lachnagrostis filiformis				1
Plantae	Flora	Poaceae	5032	Lolium perenne	*	Perennial Ryegrass		1
Plantae	Flora	Poaceae	5037	Microlaena stipoides		Weeping Grass		7

Plantae	Flora	Poaceae	7707	Microlaena stipoides		Weeping Grass		12
Plantae	Flora	Poaceae	5044	var. stipoides Oplismenus aemulus				5
Plantae	Flora	Poaceae	5045	Oplismenus imbecillis				18
				•		Two colour Dania		
Plantae	Flora	Poaceae	5066	Panicum simile	ىك	Two-colour Panic		5
Plantae	Flora	Poaceae	5086	Paspalum dilatatum	*	Paspalum		2
Plantae	Flora	Poaceae	5093	Paspalum urvillei	*	Vasey Grass		1
Plantae	Flora	Poaceae	5120	Poa affinis				1
Plantae	Flora	Poaceae	5127	Poa ensiformis		Purple-sheathed Tussock- grass		1
Plantae	Flora	Poaceae	11196	Poa labillardierei var. labillardierei		Tussock		5
Plantae	Flora	Poaceae	5134	Poa meionectes				1
Plantae	Flora	Poaceae	8742	Poa sieberiana var. sieberiana		Snowgrass		1
Plantae	Flora	Poaceae	POA	Poa spp.				2
Plantae	Flora	Poaceae	14312	Rytidosperma longifolium		Long-leaved Wallaby Grass		5
Plantae	Flora	Poaceae	RYTI	Rytidosperma spp.				2
Plantae	Flora	Poaceae	13468	Setaria parviflora	*			1
Plantae	Flora	Poaceae	5176	Sporobolus africanus	*	Parramatta Grass		
								1
Plantae	Flora	Poaceae	5179	Sporobolus creber		Slender Rat's Tail Grass		2
Plantae	Flora	Poaceae	SPOR	Sporobolus spp.		Rat's Tail Couch		1
Plantae	Flora	Poaceae	5185	Stenotaphrum secundatum	*	Buffalo Grass		4
Plantae	Flora	Poaceae	5217	Tetrarrhena juncea		Wiry Ricegrass		4
Plantae	Flora	Poaceae	7770	Themeda triandra				2
Plantae	Flora	Poaceae	6629	Vulpia fasciculata	*			1
Plantae	Flora	Poaceae	5242	Vulpia myuros	*	Rat's Tail Fescue		1
Plantae	Flora	Podocarpaceae	5248	Podocarpus spinulosus		Spiny-leaf Podocarp		1
Plantae	Flora	Polygonaceae	5263	Acetosa sagittata	*	Rambling Dock		1
Plantae	Flora	Polygonaceae	5265	Acetosella vulgaris	*	Sheep Sorrel		1
Plantae	Flora	Polygonaceae	5205	Muehlenbeckia		Slender Lignum		1
				gracillima		_		
Plantae	Flora	Polygonaceae	7568	Persicaria decipiens		Slender Knotweed		3
Plantae	Flora	Polygonaceae	5281	Persicaria hydropiper		Water Pepper		1
Plantae	Flora	Polygonaceae	8887	Persicaria praetermissa				1
Plantae	Flora	Polygonaceae	5296	Rumex brownii		Swamp Dock		1
Plantae	Flora	Polygonaceae	5298	Rumex crispus	*	Curled Dock		1
Plantae	Flora	Polygonaceae	5303	Rumex pulcher	*	Fiddle Dock		1
Plantae	Flora	Polypodiaceae	8158	Microsorum scandens		Fragrant Fern		1
Plantae	Flora	Polypodiaceae	8163	Pyrrosia rupestris		Rock Felt Fern		2
Plantae	Flora	Primulaceae	14614	Lysimachia arvensis	*	Scarlet Pimpernel		2
Plantae	Flora	Primulaceae	11948	Myrsine howittiana		Brush Muttonwood		5
Plantae	Flora	Primulaceae	11953	, Myrsine variabilis				1
Plantae	Flora	Primulaceae	5337	Samolus repens		Creeping Brookweed		- 1
Plantae	Flora	Primulaceae	5338	Samolus valerandi		Common Brookweed		1
Plantae	Flora	Proteaceae	5342	Banksia ericifolia		Heath-leaved Banksia		29
Plantae	Flora	Proteaceae	11049	Banksia ericifolia subsp. ericifolia				2
Plantae	Flora	Proteaceae	5346	Banksia paludosa				3
Plantae	Flora	Proteaceae	10874	Banksia paludosa subsp. paludosa				8
Plantae	Flora	Proteaceae	5348	Banksia serrata		Old-man Banksia		2
Plantae	Flora	Proteaceae	5349	Banksia spinulosa		Hairpin Banksia	Р	6
Plantae	Flora	Proteaceae	7488	Banksia spinulosa var. spinulosa			Ρ	17
Plantae	Flora	Proteaceae	5352	Conospermum taxifolium		Variable Smoke-bush		5
Plantae	Flora	Proteaceae	5364	Grevillea buxifolia		Grey Spider Flower		2
Plantae	Flora	Proteaceae	5381	Grevillea linearifolia		Linear-leaf Grevillea		4
Plantae	Flora	Proteaceae	5409	Hakea dactyloides		Finger Hakea		6
Plantae	Flora	Proteaceae	10804	Hakea laevipes subsp. laevipes		-		1
Plantae	Flora	Proteaceae	5424	Hakea salicifolia		Willow-leaved Hakea		3
Plantae	Flora	Proteaceae	10806	Hakea salicifolia subsp.				1
Plantae	Flora	Proteaceae	5425	salicifolia Hakea sericea		Needlebush		1
Plantae	Flora	Proteaceae	5427	Hakea teretifolia		Needlebush		31
Plantae	Flora	Proteaceae	5433	Isopogon anemonifolius		Broad-leaf Drumsticks	Р	8
Plantae	Flora	Proteaceae	5440	Lambertia formosa		Mountain Devil		12
Plantae	Flora	Proteaceae	5443	Lomatia ilicifolia		Holly Lomatia		5
Plantae	Flora	Proteaceae	5444	Lomatia myricoides		River Lomatia		2
Tantae	illia	TUCCACCAC	5444	Lonialia myneolaes				2

Plantae	Flora	Drotoccoc	9081	Persoonia laurina		Р	1
Plantae	FIOL	Proteaceae	9081	subsp. leiogyna		P	1
Plantae	Flora	Proteaceae	5462	Persoonia levis	Broad-leaved Geebung	Р	9
Plantae	Flora	Proteaceae	5463	Persoonia linearis	Narrow-leaved Geebung	Р	24
Plantae	Flora	Proteaceae	5465	Persoonia mollis	Soft Geebung	P	2
Plantae	Flora	Proteaceae	8990	Persoonia mollis subsp.		P	16
				caleyi			
Plantae	Flora	Proteaceae	8991	Persoonia mollis subsp. ledifolia		Р	1
Plantae	Flora	Proteaceae	9005	Persoonia mollis subsp. leptophylla		Р	1
Plantae	Flora	Proteaceae	5473	Persoonia silvatica		Р	1
Plantae	Flora	Proteaceae	5478	Petrophile pedunculata		Р	3
Plantae	Flora	Proteaceae	5479	Petrophile pulchella	Conesticks	Р	2
Plantae	Flora	Proteaceae	5480	Petrophile sessilis		Р	2
Plantae	Flora	Proteaceae	5481	Stenocarpus salignus	Scrub Beefwood		4
Plantae	Flora	Pteridaceae	7997	Adiantum aethiopicum	Common Maidenhair	Р	7
Plantae	Flora	Pteridaceae	7999	Adiantum formosum	Giant Maidenhair	Р	6
Plantae	Flora	Pteridaceae	8000	Adiantum hispidulum	Rough Maidenhair	P	4
Plantae	Flora	Pteridaceae	11226	Adiantum hispidulum	Rough Maidenhair	P	1
Thankae	i lora	i tenddedde	11220	var. hispidulum	neugh malaennan	•	-
Plantae	Flora	Pteridaceae	10439	Cheilanthes sieberi	Rock Fern		5
Plantae	Flora	Pteridaceae	8444	Pellaea falcata	Sickle Fern		7
Plantae	Flora	Pteridaceae	10488	Pellaea nana	Dwarf Sickle Fern		1
Plantae	Flora	Pteridaceae	8175	Pteris tremula	Tender Brake		1
Plantae	Flora	Ranunculaceae	5493	Clematis aristata	Old Man's Beard		6
Plantae	Flora	Ranunculaceae	6903	Clematis glycinoides			2
. lancae	. lord	hananoulaocae		var. glycinoides			-
Plantae	Flora	Ranunculaceae	5507	Ranunculus inundatus	River Buttercup		1
Plantae	Flora	Ranunculaceae	5508	Ranunculus lappaceus	Common Buttercup		2
Plantae	Flora	Restionaceae	10606	Baloskion fimbriatum			1
Plantae	Flora	Restionaceae	5532	Empodisma minus			7
Plantae	Flora	Restionaceae	10615	Eurychorda complanata			2
Plantae	Flora	Restionaceae	5533	Hypolaena fastigiata			3
Plantae	Flora	Restionaceae	5534	Leptocarpus tenax			7
Plantae	Flora	Restionaceae	5541	Lepyrodia scariosa			7
Plantae	Flora	Rhamnaceae	7686	Alphitonia excelsa	Red Ash		10
Plantae	Flora	Rhamnaceae	5556	Cryptandra ericoides	Heathy Cryptandra		1
Plantae	Flora	Rhamnaceae	5571	Pomaderris aspera	Hazel Pomaderris		1
Plantae	Flora	Rhamnaceae	7979	Pomaderris intermedia	hazer ondaerns		1
Plantae	Flora	Rhamnaceae	5581	Pomaderris lanigera	Woolly Pomaderris		4
	Flora		POMA	-	woony Fornaderns		
Plantae		Rhamnaceae		Pomaderris spp.	White Supplainels		1
Plantae	Flora	Ripogonaceae	6018	Ripogonum album	White Supplejack		2
Plantae	Flora	Rosaceae	5635	Rosa rubiginosa *	Sweet Briar		1
Plantae	Flora	Rosaceae	11303	Rubus fruticosus sp. * agg.	Blackberry complex		3
Plantae	Flora	Rosaceae	11236	Rubus moluccanus var. trilobus	Molucca Bramble		4
Plantae	Flora	Rosaceae	9917	Rubus nebulosus	Green-leaved Bramble		1
Plantae	Flora	Rosaceae	5642	Rubus parvifolius	Native Raspberry		7
Plantae	Flora	Rosaceae	5645	Rubus rosifolius	Rose-leaf Bramble		1
Plantae	Flora	Rosaceae	RUBU	Rubus spp.			1
Plantae	Flora	Rosaceae	5646	Rubus ulmifolius *	Blackberry		1
Plantae	Flora	Rubiaceae	5675	Coprosma quadrifida	Prickly Currant Bush		3
Plantae	Flora	Rubiaceae	13838	Galium leiocarpum			1
Plantae	Flora	Rubiaceae	5688	Galium propinquum	Maori Bedstraw		1
Plantae	Flora	Rubiaceae	14922	Gynochthodes jasminoides	Sweet Morinda		12
Plantae	Flora	Rubiaceae	5697	Opercularia aspera	Coarse Stinkweed		6
Plantae	Flora	Rubiaceae	5699	Opercularia hispida	Hairy Stinkweed		1
Plantae	Flora	Rubiaceae	5701	Opercularia varia	Variable Stinkweed		1
Plantae	Flora	Rubiaceae	5701	Pomax umbellata	Pomax		6
Plantae	Flora	Rubiaceae	5706	Psychotria loniceroides	Hairy Psychotria		12
Plantae	Flora	Rutaceae	5722	Acronychia oblongifolia	White Aspen		1
Plantae	Flora	Rutaceae	12257	Boronia anemonifolia	white Aspen	Р	1
				subsp. anemonifolia			
	Flora	Rutaceae	5744	Boronia ledifolia	Sydney Boronia	Р	2
Plantae	Flore	Rutaceae	5750	Boronia pinnata		Р	1
Plantae	Flora						
Plantae Plantae	Flora	Rutaceae	7210	Boronia thujona		Р	2
Plantae			7210 10046 11021	Boronia thujona Correa alba var. alba Correa lawrenceana	White Correa	Ρ	2 1 10

Plantae	Flora	Rutaceae	8801	Correa reflexa var. reflexa		Native Fuschia		2
Plantae	Flora	Rutaceae	10797	Correa reflexa var.				1
Plantae	Flora	Rutaceae	5826	speciosa Phebalium		Scaly Phebalium	Р	1
Plantae	Flora	Rutaceae	8258	squamulosum Phebalium			Р	1
Flantae	nora	Rutaceae	0230	squamulosum subsp. argenteum			r	I
Plantae	Flora	Rutaceae	10577	Philotheca buxifolia			Р	5
Plantae	Flora	Rutaceae	PHIL	Philotheca spp.			Р	2
Plantae	Flora	Rutaceae	8842	Sarcomelicope		Big Yellow Wood		1
				simplicifolia subsp. simplicifolia				
Plantae	Flora	Rutaceae	5834	Zieria arborescens		Stinkwood		1
Plantae	Flora	Rutaceae	9994	Zieria arborescens subsp. arborescens				8
Plantae	Flora	Rutaceae	11036	Zieria caducibracteata				5
Plantae	Flora	Rutaceae	5847	Zieria smithii		Sandfly Zieria		4
Plantae	Flora	Santalaceae	5864	Exocarpos strictus		Dwarf Cherry		3
Plantae	Flora	Santalaceae	5865	Leptomeria acida		Sour Currant Bush		4
Plantae	Flora	Santalaceae	5870	Santalum obtusifolium		Sandalwood		2
Plantae	Flora	Sapindaceae	5875	Alectryon subcinereus		Wild Quince		6
Plantae	Flora	Sapindaceae	5911	Dodonaea triquetra		Large-leaf Hop-bush		4
Plantae	Flora	Sapindaceae	5917	Guioa semiglauca		Guioa		2
Plantae	Flora	Selaginellaceae	8187	Selaginella uliginosa		Swamp Selaginella		4
Plantae	Flora	Smilacaceae	7592	Smilax australis		Lawyer Vine		15
Plantae	Flora	Smilacaceae	6022	Smilax glyciphylla		Sweet Sarsparilla		16
Plantae	Flora	Solanaceae	6033	Datura stramonium	*	Common Thornapple		2
Plantae	Flora	Solanaceae	6036	Duboisia myoporoides		Corkwood		1
Plantae	Flora	Solanaceae	6058	Physalis peruviana	*	Cape Gooseberry		1
Plantae	Flora	Solanaceae	7043	Solanum americanum	*	Glossy Nightshade		1
Plantae	Flora	Solanaceae	6065	Solanum aviculare		Kangaroo Apple		2
Plantae	Flora	Solanaceae	6071	Solanum	*	Whitetip Nightshade		2
Diantaa	Flave	Calanaaaaa	6000	chenopodioides	*	Wild Tabasas Duab		7
Plantae	Flora	Solanaceae	6090	Solanum mauritianum	*	Wild Tobacco Bush		7
Plantae	Flora	Solanaceae	6091	Solanum nigrum	•	Black-berry Nightshade		2
Plantae	Flora	Solanaceae	6100	Solanum prinophyllum	*	Forest Nightshade		1
Plantae	Flora	Solanaceae	6101	Solanum pseudocapsicum		Madeira Winter Cherry		2
Plantae	Flora	Solanaceae	6102	Solanum pungetium		Eastern Nightshade		2
Plantae	Flora	Solanaceae	6109	Solanum stelligerum		Devil's Needles		1
Plantae	Flora	Sparganiaceae	6767	Sparganium subglobosum		Floating Bur-reed		1
Plantae	Flora	Stackhousiaceae	6120	Stackhousia monogyna		Creamy Candles		1
Plantae	Flora	Stylidiaceae	6158	Stylidium laricifolium		Tree Triggerplant		3
Plantae	Flora	Stylidiaceae	6159	Stylidium lineare		Narrow-leaved Triggerplant		6
Plantae	Flora	Symplocaceae	6166	Symplocos thwaitesii		Buff Hazelwood		1
Plantae	Flora	Thymelaeaceae	8676	Pimelea ligustrina subsp. ligustrina				1
Plantae	Flora	Thymelaeaceae	6182	Pimelea linifolia		Slender Rice Flower		4
Plantae	Flora	Thymelaeaceae	6635	Pimelea linifolia subsp. collina				3
Plantae	Flora	Thymelaeaceae	6814	Pimelea linifolia subsp. linifolia				4
Plantae	Flora	Ulmaceae	6761	Trema tomentosa var. aspera		Native Peach		2
Plantae	Flora	Ulmaceae	11222	Ulmus parvifolia	*	Chinese Elm		1
Plantae	Flora	Urticaceae	6226	Dendrocnide excelsa		Giant Stinging Tree		4
Plantae	Flora	Urticaceae	6231	Parietaria debilis		Native Pellitory		1
Plantae	Flora	Urticaceae	6237	Urtica incisa		Stinging Nettle		2
Plantae	Flora	Uvulariaceae	3566	Schelhammera undulata				15
Plantae	Flora	Verbenaceae	6256	Verbena bonariensis	*	Purpletop		6
Plantae	Flora	Verbenaceae	6259	Verbena officinalis	*	Common Verbena		1
Plantae	Flora	Verbenaceae	11406	Verbena rigida var. rigida	*	Veined Verbena		2
Plantae	Flora	Violaceae	12061	Melicytus dentatus		Tree Violet		11
Plantae	Flora	Violaceae	11863	Viola banksii				1
Plantae	Flora	Violaceae	6272	Viola hederacea		Ivy-leaved Violet		8
Plantae	Flora	Violaceae	12580	Viola silicestris				3
Plantae	Flora	Vitaceae	6282	Cissus antarctica		Water Vine		5
Plantae	Flora	Vitaceae	6283	Cissus hypoglauca		Giant Water Vine		12

Plantae	Flora	Winteraceae	6290	Tasmannia insipida	Brush Pepperbush		2
Plantae	Flora	Xanthorrhoeaceae	7995	Xanthorrhoea concava		Ρ	5
Plantae	Flora	Xanthorrhoeaceae	6321	Xanthorrhoea resinosa		Ρ	4
Plantae	Flora	Xyridaceae	6323	Xyris juncea	Dwarf Yellow-eye		1
Plantae	Flora	Xyridaceae	6324	Xyris operculata			1
Plantae	Flora	Zamiaceae	6327	Macrozamia communis	Burrawang	Р	1

Biodiversity Search: Threatened Species



Figure 5 - Bionet Search limit to Threatened Species, Croobyar Road-Smarts Bridge-Croobyar

BIONET DATA: Threatened Species

No records found

Search criteria: Public Report of all Valid Records of Endangered Populations in selected area [North: -35.28 West: 150.32 East: 150.42 South: -35.38] returned 0 records for 0 species.

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