

**Aquatic Plants Standard**

**Cover Page to be inserted**

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The Fisheries Research & Development Corporation welcomes suggestions for improvements and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us at

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## Australian Standard for Aquatic Plant Names

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## Introduction

### Need for an Australian Aquatic Plant Names Standard

Commercial trade in aquatic plants is an important and rapidly emerging industry, and the industry has proactively developed a list of standard names for all current commercial, and potentially commercial, edible aquatic plant species.

The development of this Standard shall prevent a plethora of unregulated names for the same species eventuating in the marketplace.

This Standard includes names for both marine and freshwater plants but has initially focused on commercial edible marine plants. Further commercial species that fall within the Standard's definition of aquatic plants shall be added in the future as necessary.

The Fisheries Research & Development Corporation was accredited as a Standards Development Organisation (SDO) in 2013 and has continued responsibility for the maintenance and ongoing development of standards relevant to its scope of accreditation.

### Description of the Standard

This Standard defines the standard names to be used in Australia for edible aquatic plants and specifies when the standard names are to be used. Annex A of this Standard lists the agreed standard names for edible aquatic plants and forms part of the Standard. Plants from salt water and freshwater environments are included, irrespective of the country of origin.

The FRDC has given autonomy to the Aquatic Plant Names Standards Reference Body (SRB) for the development and maintenance of the *Australian Standard for Aquatic Plant Names Standard*, which is underpinned by rigorous policies and procedures that have been developed by the FRDC.

### Purpose and Net Benefit of the Standard

Use of standard names for aquatic plants in Australia, as defined in this Standard, achieves outcomes that are consistent with the aims of industry and governments.

#### Public health and safety

- Public health and safety are enhanced because as edible aquatic plants become more prevalent, the community should need to have confidence in what they are purchasing/consuming, particularly as this is an emerging industry offering new products to many Australian consumers.
- It is possible that specific allergens and/or potential toxins may be present in some aquatic plants and correct labelling should allow affected persons to avoid products that pose a risk.

#### Social and community impact

- This is an emerging industry and there is opportunity to create an industry agreed set of standard names for aquatic plants in the embryonic stages of the industry's development.
- Producers shall have confidence in the names of the species of aquatic plants that have been harvested.
- A more successful marketing strategy can be undertaken because of the industry agreed plant names.
- Stakeholders have expressed widespread support for the Standard
- All state jurisdictions either reported growth in the sector or growing interest in macroalgae farming.

## Environmental impact

- Use of the agreed standard names for aquatic plants allows for improved management of the aquatic resource.
- This Standard provides the opportunity for linkages to stock assessment data to facilitate better management of aquatic resources.

## Competition

- Development of this agreed set of standard names for aquatic plants to be used in Australia shall facilitate international alignment, particularly where aquatic plant products are imported. Both imported and domestic product shall need to use the same name in Australia.

## Economic impact

- **Consumers** shall know what they are getting through truth in labelling. The names that are developed shall be well publicised and shall become known to consumers. Not developing a standard would result in marketplace confusion.
- **Producers and suppliers** shall have certainty in what they are producing and/or supplying and shall have the ability to develop marketing strategies and business plans based on agreed and accepted standard names.

## Preparation of this Standard

FRDC is accredited by the Standards Australia Standards Development Advisory Committee (SDAC) as a Standards Development Organisation. This Standard was prepared by FRDC's Aquatic Plant Names Standards Reference Body (SRB) in accordance with requirements prescribed for developing Australian Standards. The Standard is the result of a consensus among a wide range of stakeholders and an extensive process of consultation with industry experts, end users, and the general public.

## The Aquatic Plant Names Standards Reference Body

The membership and operational procedures for the Aquatic Plant Names SRB are specified in the following key FRDC policies and procedures documents:

- [FRDC Standards Development Policy](#), which sets the overall policy direction for FRDC in its standards development activities;
- [FRDC Standards Development Procedure](#), which provides guidance on all standards development activities and applies to all Standards Reference Bodies.

Membership of the Aquatic Plant Names SRB reflects the important role of key stakeholders in the process to develop an Australian Standard for Aquatic Plant Names and ensures that the committee collectively possesses skills and knowledge relating to:

- Producer/harvester
- Marketing and trade
- Promotion and public relations
- Consumer issues
- Taxonomy and nomenclature
- Processer/manufacturer
- Legislation and processes relevant to the import and export of aquatic plants
- Corporate governance including the operations of boards or committees
- Industry leadership
- Any additional skills identified.

## **The Fisheries Research & Development Corporation**

The FRDC invest to pursue the shared vision of Australia’s fishing and aquaculture sectors of building collaborative, vibrant fishing and aquaculture, creating diverse benefits from aquatic resources, and celebrated by community. The FRDC does this through acting as a national thought leader, facilitating knowledge creation, collaboration and innovation to shape the future of fishing and aquaculture in Australia, for the benefit of the Australian people.

The FRDC invests in Research and Development (R&D) that supports aquaculture, commercial, Indigenous and recreational fishers. These stakeholders operate across environments that range from the open oceans in the northern tropics through to temperate seas and icy Antarctic waters, from freshwater lakes and rivers that flow down through the country’s estuaries.

The FRDC was formed on 2 July 1991, and has two pieces of governing legislation:

- Primary Industries Research & Development Act 1989 (PIRD Act), and
- Public Governance, Performance and Accountability Act 2013.

The FRDC is accountable to the Australian Parliament through the Minister for Agriculture, Water and Environment. It is governed by a Chair and Board of Directors. Management is led by the Managing Director supported by a number of dedicated staff. Staff members work as a team to ensure good relationships exist with all stakeholders, and that the concerns and needs of the broader community are taken into consideration.

The FRDC is approved by the Accreditation Board for Standards Development Organisations as a Standards Development Organisation AS/NZS ISO 9001:2015 organisation for quality and undertakes internal and external audits annually with a recertification audit of its quality system each three years.

The FRDC works to ensure that the returns from R&D are implemented with the greatest positive impact. It continually looks to evolve the approach to investing in R&D, enabling adaptive and creative approaches to problem solving, which in turn aids FRDC to be agile to respond to the changing environment faced by fishing and aquaculture in Australia.



## 1. Scope

This Standard defines the names for aquatic plants for use in Australia and specifies when Standard Aquatic Plant Names are to be used.

Annex A lists the approved Standard Aquatic Plant Names and forms part of this Standard.

### 1.1 Application

This Standard provides guidance on complying with requirements for the use of Standard Aquatic Plant Names in Australia and is intended for use by people and businesses involved with commercial activities and trade in aquatic plants in Australia.

## 2. Interpretative Guidelines

### 2.1 Compliance with this Standard

Requirements designated by the words 'shall' or 'shall not' are mandatory for organizations seeking to achieve compliance with this Standard.

Requirements designated by the words 'should' or 'should not' are recommended, but are not mandatory to achieve compliance with this Standard.

### 2.2 Abbreviations, definitions and terms

#### 2.2.1 Application

For the purpose of this Standard, if there is conflict between the definitions in this document and those in other relevant standards or documents, the definitions herein take precedence.

#### 2.2.2 Abbreviations

<b>Abbreviation</b>	<b>Full Description</b>
CAAB	Codes for Australian Aquatic Biota
FRDC	Fisheries Research & Development Corporation
RD&E	Research, Development and Extension
SRB	Standards Reference Body
SDO	Standards Development Organisation

### 2.2.3 Terms and definitions

<b>Terms</b>	<b>Definition</b>
annex	An annex to this document is an integral part of the Standard.
aquatic plant	For the purpose of this Standard, aquatic plants are defined as plants used commercially as a source of food, therapeutics, derivatives and additives, that naturally require saltwater or freshwater habitats for growth.
attachments	An attachment to this document is for information and/or guidance only.
authority	The author associated with the scientific name. Where an authority is in brackets, it indicates that the species is no longer in the genus to which it was originally described by that author. The author listed outside the brackets placed the species in its current genus.
CAAB Code	Codes for Australian Aquatic Biota (CAAB) codes consist of eight digits and each species is assigned a unique CAAB Code. This number is unique to Australia.
freshwater habitats	Freshwater habitats are defined as temporary and permanent inland water bodies.
obsolete name	A name (other than the current Standard Aquatic Plant Name) that has been previously used to describe a species in a commercial or research setting.
plants	Plants are defined as vascular plants, photosynthetic protists, and photosynthetic prokaryotes.
saltwater habitats	Saltwater habitats are defined as marine and brackish waters up to the highest astronomical tide.
scientific name	Is the unique scientific name for an aquatic plant as determined by international convention and consisting of a genus name and a species name – the scientific names used in this Standard are the scientific names used in CSIRO’s CAAB Database or as otherwise advised by CSIRO Oceans and Atmosphere or another competent authority.
Standard Aquatic Plant Name	The Standard Aquatic Plant Name for a species as recorded in this Standard. A Standard Aquatic Plant Name may cover a single species, or all or some species in a particular scientific family, genus or other systematic group.
taxonomic group name	A plant’s taxonomic group name as per international convention of hierarchical classification based on the <i>International Code of Nomenclature for algae, fungi, and plants</i> . The taxonomic group names used in this Standard are those advised by CSIRO Oceans and Atmosphere, or another competent authority.
Use of square brackets	Information in square brackets define the plant part and do not part of the Standard Name.

## 2.3 Footnotes

Footnotes are for information and/or guidance in interpretation.

## 3. References

### 3.1 Application and format

- a) If this Standard refers to another document, the other document is a referenced document.
- b) Where the edition (or version) of the referenced document is uniquely identified, then that edition (or version) applies.
- c) Where the edition (or version) of the referenced document is not uniquely identified, then the applicable edition (or version) is that which is current at the date upon which the referenced document is published.

### 3.2 Referenced documents

- FRDC Standards Development Policy, which sets the overall policy direction for FRDC in its standards development activities;
- FRDC Standards Development Procedure, which provides guidance on all standards development activities and applies to all Standards Reference Bodies.

## 4. Requirements for using Standard Aquatic Plants Names

### 4.1 Use of Standard Aquatic Plant Names

#### 4.1.1 When aquatic plant products are sold or traded to consumers

Aquatic plant products sold to consumers (e.g., retail sales and restaurants) shall be identified at the point of sale by the Standard Aquatic Plant Name specified for that species in Annex A of this Standard and may also be identified by its scientific name.

#### 4.1.2 When aquatic plant products are sold or traded other than directly to consumers

Aquatic plant products sold or traded commercially other than directly to consumers (e.g., wholesale, export, import) shall be identified by either the Standard Aquatic Plant Name and/or the scientific name for that species.

#### 4.1.3 Communication of Standard Aquatic Plant Names

In publications by scientists, the commercial sector, recreational sector chefs, media, teachers, fisheries managers, and others; aquatic plant products shall be identified by either their Standard Aquatic Plant Name or the scientific name for that species., or both.

#### 4.1.4 Standard Aquatic Plant Names – scope and priority

A Standard Aquatic Plant Name may define either a single species, or all species in a particular scientific genus, family or other systematic group of aquatic plants.

Aquatic plant products should be identified by the Standard Aquatic Plant Name for that species only. However, the Standard Aquatic Plant Name for the scientific group or family to which an aquatic plant product belongs may be used if:

- the particular aquatic plant product does not have a Standard Aquatic Plant Name for that particular species, or
- the aquatic plant product is part of a batch of different species of aquatic plant products, all of which are from the same scientific group or family, AND

- using the Standard Aquatic Plant Name for the scientific group or family to which an aquatic plant product belongs, does not mislead, misrepresent or confuse the identification of the aquatic plant products.

In any instance where a group name is used, the group name should be shown capitalised<sup>1</sup> in order to indicate that it is a group name.

Some group names listed in this Standard display a pluralisation in brackets. When displaying these group names, the pluralised form is optional.

## 4.2 Use of other names for aquatic plant products

### 4.2.1 When other names for aquatic plant products may be used

When a Standard Aquatic Plant Name is required to be used under this Standard, a species (or group) of aquatic plant products that does not have a Standard Aquatic Plant Name specified in Annex A may, subject to 4.2.2, be identified by a name that is commonly used for that species in Australian or international markets.

### 4.2.2 Notification of use of other names for aquatic plant products

A person or business using another name for an aquatic plant product (as per 4.2.1) shall notify the Aquatic Plant Names SRB through FRDC of that use within 30 days. FRDC shall include all such notifications received in accordance with this subsection on the agenda of the next meeting of the Aquatic Plant Names SRB.

The Aquatic Plant Names SRB may:

- initiate a proposal for a Standard Aquatic Plant Name to be assigned for that species or group, or
- require the person or business using the other name to submit an application for a Standard Aquatic Plant Name to be assigned for that species or group.

### 4.2.3 Display of obsolete aquatic plant names

A person or business may display an obsolete name for an aquatic plant product on their point of sale labels only if:

- the correct Standard Aquatic Plant Name is displayed in a more prominent position and larger text than, and above the obsolete name, and
- the obsolete name is qualified by the use of brackets. A qualifying statement, for example “formerly sold here as”, may also be added in the brackets.

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<sup>1</sup> Example: Any of the *Cladosiphon*, *Tinocladia*, *Myriogloea* & *Nemacystus* spp. should be referred to as MOZUKU

## Annex A – List of Standard Aquatic Plant Names

### This Annex forms part of this Standard

This Annex lists approved Standard Aquatic Plant Names and is an integral part of the Australian Standard for Aquatic Plant Names. Lists of Standard Aquatic Plant Names are available from <http://seafoodstandards.com.au/aquatic-plant-names-standard/>

Hard copies of the Standard are available from:

Fisheries Research & Development Corporation      [www.frdc.com.au](http://www.frdc.com.au)

### Standard Names websites

Current versions of this Standard (including Annex A), standards development policies and procedures, and Standard Aquatic Plant Names application forms can be found at: the following web addresses:

Searchable database of Standard Aquatic Plant Names      <http://seafoodstandards.com.au/aquatic-plant-names-standard/>

Information about the Australian Standard for Aquatic Plant Names and the applications process      <http://seafoodstandards.com.au/aquatic-plant-names-standard/>

### Format and content

Annex A may be in electronic or hard copy form and shall, when the information exists, include at least Standard Aquatic Plant Name, Scientific name, CAAB Code, and where possible Authority.

### Updating Annex A

Annex A shall be updated as soon as practicable after a new or amended Standard Aquatic Plant Name has been approved. Revised scientific names are incorporated when FRDC is advised in accordance with this Standard. FRDC shall make the current version of the Australian Standard for Aquatic Plant Names available for electronic purchase and download from the FRDC website at <http://seafoodstandards.com.au/aquatic-plant-names-standard/>

### More information from FRDC

Email      [frdc@frdc.com.au](mailto:frdc@frdc.com.au)

Phone      02 6285 0400

## A-1 Brown Algae

CAAB Code	Approved Standard Name	Scientific Name	Authority
<b>Order Ectocarpales</b>			
<b>Family Chordariaceae</b>			
54 012912	MOZUKU	<i>Cladosiphon, Tinocladia, Myriogloea &amp; Nemacystus</i> spp.	
<b>Family Scytosiphonaceae</b>			
54 050904	HABANORI	<i>Petalonia</i> spp.	
<b>Order Fucales</b>			
<b>Family Durvillaeaceae</b>			
54 095901	BULL KELP	<i>Durvillaea</i> spp.	
<b>Family Fucaceae</b>			
54 101005	Knotted Wrack	<i>Ascophyllum nodosum</i>	(Linnaeus, 1753) Le Jolis, 1863
54 101006	Bladder Wrack	<i>Fucus vesiculosus</i>	Linnaeus, 1753
54 101903	ROCKWEED	<i>Fucus</i> spp.	
<b>Family Himanthaliaceae</b>			
54 104001	Sea Spaghetti	<i>Himanthalia elongata</i>	(Linnaeus, 1753) S. F. Gray, 1821
<b>Family Hormosiraceae</b>			
54 100001	Neptune's Necklace	<i>Hormosira banksii</i>	(Turner, 1808) Decaisne, 1842
<b>Family Sargassaceae</b>			
54 105077	Hijiki	<i>Sargassum fusiforme</i>	(Harvey, 1860) Setchell, 1931
<b>Family Seirococcaceae</b>			
54 102001	Crayweed	<i>Phyllospora comosa</i>	(Labillardière, 1807) C. Agardh, 1839
<b>Order Laminariales</b>			
<b>Family Alariaceae</b>			
54 080004	Winged Kelp	<i>Alaria esculenta</i>	(Linnaeus, 1767) Greville, 1830
54 080002	Wakame [frond] Mekabu [sporophyll] Kukiwakame [midrib]	<i>Undaria pinnatifida</i>	(Harvey, 1860) Suringar, 1873
<b>Family Laminariaceae</b>			
54 076902	KOMBU	<i>Laminaria &amp; Saccharina</i> spp.	

CAAB Code	Approved Standard Name	Scientific Name	Authority
54 076001	Giant Kelp	<i>Macrocystis pyrifera</i>	(Linnaeus, 1771) C. Agardh, 1820
<b>Family Lessoniaceae</b>			
54 079010	Kajime	<i>Ecklonia cava</i>	Kjellman, 1885
54 079009	Golden Kelp	<i>Ecklonia radiata</i>	(C. Agardh, 1817) J. Agardh, 1848
54 079901	SOUTHERN KOMBU	<i>Lessonia</i> spp.	

## A-2 Cyanobacteria

CAAB Code	Approved Standard Name	Scientific Name	Authority
<b>Order Oscillatoriales</b>			
<b>Family Microcoleaceae</b>			
70 014001	Spirulina	<i>Arthrospira platensis</i>	Gomont, 1892
<b>Order Nostocales</b>			
<b>Family Aphanizomenonaceae</b>			
70 060901	APHANIZOMENON	<i>Aphanizomenon</i> spp.	

## A-3 Green Algae

CAAB Code	Standard Name	Scientific Name	Authority
<b>Order Bryopsidales</b>			
<b>Family Caulerpaceae</b>			
56 197902	SEA GRAPES	<i>Caulerpa cylindracea</i> <i>Caulerpa hodgkinsoniae</i> <i>Caulerpa lentillifera</i> <i>Caulerpa racemosa</i> <i>Caulerpa sedoides</i> <i>Caulerpa vesiculifera</i>	Sonder, 1845 J. Agardh, 1887 J. Agardh, 1837 (Forsskål, 1775) J. Agardh, 1873 C. Agardh, 1817 Harvey, 1859) Harvey, 1863
<b>Family Codiaceae</b>			
56 191902	VELVET FINGERS	<i>Codium</i> spp.	
<b>Order Chlamydomonadales</b>			
<b>Family Dunaliellaceae</b>			
56 101001	Dunaliella	<i>Dunaliella salina</i>	(Dunal, 1837) Teodoresco, 1905
<b>Family Haematococcaceae</b>			
56 104001	Haematococcus	<i>Haematococcus lacustris</i>	(Girod-Chantrons, 1802) Rostafinski, 1875
<b>Order Chlorellales</b>			
<b>Family Chlorellaceae</b>			
56 121901	CHLORELLA	<i>Chlorella</i> spp.	
<b>Order Chlorodendrales</b>			
<b>Family Chlorodendraceae</b>			
56 007901	TETRASELMIS	<i>Tetraselmis</i> spp.	
<b>Order Cladophorales</b>			
<b>Family Cladophoraceae</b>			
56 180001	Mermaid's Necklace	<i>Chaetomorpha coliformis</i>	(Montagne, 1842) Kützing, 1849
<b>Order Ulvales</b>			
<b>Family Ulvaceae</b>			
56 165907	SEA LETTUCES	<i>Ulva</i> spp.	



## A-4 Red Algae

CAAB Code	Approved Standard Name	Scientific Name	Authority
<b>Order Bangiales</b>			
<b>Family Bangiaceae</b>			
55 010904	NORI	<i>Porphyra &amp; Pyropia</i> spp.	
<b>Order Bonnemaisoniales</b>			
<b>Family Bonnemaisoniaceae</b>			
55 125901	ASPARAGOPSIS	<i>Asparagopsis</i> spp.	
<b>Order Gelidiales</b>			
55 028904	AGARWEED	<i>Gelidium</i> spp. & <i>Pterocladia</i> spp.	
<b>Order Gigartinales</b>			
<b>Family Gigartinaceae</b>			
55 053033	Irish Moss	<i>Chondrus crispus</i>	Stackhouse, 1797
<b>Family Solieriaceae</b>			
55 056914	JELLYWEED	<i>Betaphycus &amp; Eucheuma</i> spp.	
55 056912	SOLIERIA	<i>Solieria</i> spp.	
<b>Order Gracilariales</b>			
<b>Family Gracilariaceae</b>			
55 106902	GRACILARIA	<i>Gracilaria</i> spp.	
<b>Order Halymeniales</b>			
<b>Family Halymeniaceae</b>			
55 095050	Red Sea Lettuce	<i>Grateloupia turuturu</i>	Yamada, 1941

## A-5 Photosynthetic Protists

<b>Order Thraustochytriales</b>			
<b>Family Thraustochytriaceae</b>			
53 701000	THRAUSTOCHYTRIDS	Thraustochytriaceae – undifferentiated	

## A-6 Flowering Plants

CAAB Code	Approved Standard Name	Scientific Name	Authority
<b>Order Apiales</b>			
<b>Family Apiaceae</b>			
63 460001	Water Celery	<i>Oenanthe javanica</i>	de Candolle, 1830
63 460002	Lebanese Cress	<i>Helosciadium nodiflorum</i>	(Linnaeus, 1753) W. D. J. Koch, 2010
<b>Order Brassicales</b>			
<b>Family Brassicaceae</b>			
63 220002	Watercress	<i>Nasturtium officinale</i>	W. T. Aiton, 1812
<b>Order Caryophyllales</b>			
<b>Family Chenopodiaceae</b>			
63 145903	SAMPHIRES	<i>Salicornia &amp; Tecticornia</i> spp.	
<b>Order Nymphaeales</b>			
<b>Family Nelumbonaceae</b>			
63 050901	WATER LILIES	<i>Nymphaea</i> spp.	
63 050001	Blue Water Lily	<i>Nymphaea gigantea</i>	W. J. Hooker, 1852
<b>Order Lamiales</b>			
<b>Family Plantaginaceae</b>			
63 470001	Buffalo Spinach	<i>Limnophila aromatica</i>	(Lamarck, 1786) Merrill, 1917
63 470902	WATER HYSSOP	<i>Bacopa</i> spp.	
<b>Order Poales</b>			
<b>Family Cyperaceae</b>			
63 640001	Chinese Water Chestnut	<i>Eleocharis dulcis</i>	(N. L. Burman, 1768) Trinius ex Henschel, 1833
<b>Order Proteales</b>			
<b>Family Nelumbonaceae</b>			
63 120001	Lotus	<i>Nelumbo nucifera</i>	J. Gaertner, 1788
<b>Order Solanales</b>			
<b>Family Convolvulaceae</b>			
63 480001	Kang Kong	<i>Ipomoea aquatica</i>	Forsskål, 1775

## **Fisheries Research & Development Corporation**

The Fisheries Research & Development Corporation develops Australian Standards and other documents of public benefit and national interest. These Standards are developed through an open process of consultation and consensus, in which all interested parties are invited to participate.

The Fisheries Research & Development Corporation is an accredited Standards Development Organisation (SDO) with the Standards and Accreditation Board (SDAC) of Standards Australia

Further information visit: <http://seafoodstandards.com.au/seafood-standards/Pages/default.aspx>

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## **Standards Development and Accreditation Committee (SDAC)**

The accreditation responsibilities of the Standards Australia Board, which have been delegated to the Standards Development and Accreditation Committee (SDAC), are:

- Accrediting (or, where appropriate, declining to accredit) bodies in Australia to develop and maintain Australian Standards®.
- Withdrawing any accreditation granted.
- Setting policies and guidelines in relation to the preparation, maintenance, development, and publication of Australian Standards®.
- Auditing accredited bodies to ensure compliance with all policies and guidelines of SDAC.

SDAC has replaced the former Accreditation Board for Standards Development Organisations (ABSDO).

For further information visit <https://www.standards.org.au/standards-development/accreditation>

## **Fisheries Research & Development Corporation**

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