

Benthic Impacts Revision Technical Working Group Terms of Reference

September 2020

Introduction

The Technical Advisory Group (TAG) Terms of Reference make provision for the formation of Technical Working Groups (TWGs) to support the technical and scientific work of the TAG. Typically, a TWG will be comprised of technical experts; external to ASC's governance bodies, and a member of the TAG acting as a sponsor; to facilitate communication and understanding between the TAG and the TWG and support the ASC technical lead. The ASC's Secretariat will provide logistical support to the group and a Project Lead from ASC will be appointed to provide the group with the required technical resources. An external facilitator may be also appointed.

References

ASC Standard Setting Procedure ASC Metrics Methodology ASC Complaints Procedure TAG Terms of Reference

1. Terms of Reference

1.1 Background

During the preparation of the aligned <u>ASC Farm Standard</u> project, which will bring the current eleven species-specific Standards into a single farm-level Standard, the benthic impact requirements have been identified as highly diverse (in their approach and/or language) and in where significant variation exists, even if Standards cover similar production systems. With this in mind, ASC is revising the current requirements aiming to define Criteria/Indicators that collectively address the benthic impacts of aquaculture in all major production systems¹ that discharge into different water types². A Technical Working Group (TWG) will be formed to support ASC in this revision.

1.2 Statement of purpose of the Technical Working Group

The purpose of the TWG is to revise the current approach in the ASC Standards and recommend Criteria/Indicators that collectively address benthic impacts in all major production systems that discharge into different water types, based on the latest scientific knowledge and current best practices within the aquaculture industry.

1.3 Terms of Reference

The TWG will have the following responsibilities:

- a) Review the current benthic indicator requirements;
- b) Analyse, discuss and collaborate in the development of recommendations for a revised indicator on benthic impacts;

¹ Major production systems are: cages, suspended/off-bottom, in or on-bottom and land-based (pointdischarge systems, e.g. ponds, race-way, flow-through and RAS).

² Water types are: marine, brackish, freshwater.

- c) Provide input into the development of the draft versions of the revised indicator on benthic impacts;
- d) Seek feedback from the TAG on the draft versions of the revised indicator prior to their public consultation;
- e) Assess and advise on stakeholders' comments after each public consultation;
- f) Decide when the final draft of the revised indicator is ready to be proposed to TAG for approval;
- g) Attend the TWG meetings or other in relation to this review as necessary and/or required by the Project Lead.

2. Membership

TWG membership shall aim to balance interests from the standard's key interest groups and geographical representation. All members should support the aims of the <u>ASC</u>, its <u>Vision and</u> <u>Mission</u>, and commit to engaging constructively.

2.1 Technical competencies required:

Advanced degree in Environmental, Biology, Aquatic Animal Health, Sustainable Management, Aquaculture or other related science.

Experience in studying and addressing aquaculture benthic impact-related matters. This experience may come from working in academia or regulatory agencies.

Name	Role	Organisation	Stakeholder sector	Primary region represented
Catriona Macleod	Centre Head – Ecology and Biodiversity	University of Tasmania	Academia	Europe/Oceania
lan Payne	Independent Expert/ASC Consultant	Independent	Independent	Europe/Asia
loannis Karakassis	Associate Professor, Dept. Biology	University of Crete	Academia	Europe
Jennifer Best	Principal Specialist Scientist, Chemistry	Scottish Environmental Protection Agency - SEPA	Regulator	Europe
Peter Cook	TAG Sponsor	The University of Western Australia	Academia	Oceania
Peter J Cranford	Independent Expert	Independent	Academia	America/Europe
Nigel Keeley	Senior Scientist	Institute of Marine Research	Academia	Europe/Oceania
Amy White	Independent Expert/ASC Consultant	Independent	Independent	Oceania

Table 1: TWG Members

UPDATE MAY 2021

An ad-hoc group of experts was brought to the TWG to complement its expertise (e.g. in areas related to freshwater production). Table 2 present the list of ad-hoc experts:

Name	Role	Organisation	Stakeholder sector	Primary region represented
John Dominic	Independent Consultant	Independent	Academia	Africa
William Collis	Team Leader	WorldFish	Academia	Asia
Michael Phillips	Director of Aquaculture and Fisheries Science	WorldFish	Academia	Europe/Asia
Malcolm Dickson	Aquaculture and fisheries consultant	Independent	Academia	Europe/Asia

Table 2: Ad-hoc group of experts

3. Reporting requirements

3.1 The TWG will report to the TAG on January and July 2021 and January and July 2022, prior to the public consultation rounds allocated for those year. Materials made available for review will include:

- White papers
- Meeting minutes
- Recommendations

4. Duration and review times

4.1 It is expected that the TWG will be active until the final recommendations for revised indicators in water quality are approved by the TAG. The TWG may be called upon to consider questions raised in the initial application of the new requirements.

	Date	Activity	Outcome/Deliverable
1	SEP-DEC 2020	TWG meetings	Draft recommendations for revised benthic impact indicators for TAG endorsement for 1 st public consultation
2	JAN 2021	Present 1 st draft of TWG's recommendations for revised benthic indicators for marine cages to TAG for endorsement for public consultation	1 st draft recommendations for revised benthic indicators for marine cages endorsed by the TAG for public consultation
3	MAR- APR 2021	PUBLIC CONSULTATION	

Table 2: TWG timeline

4	MAY- DEC 2021	TWG meetings (public consultation follow up)	2 nd draft recommendations for revised benthic indicators for marine cages and 1 st draft recommendations for a revised indicator for other production systems and water types for TAG endorsement for public consultation
5	JAN 2022	Present 2 nd draft of TWG's recommendations for revised benthic indicators for marine cages and 1 st draft recommendations for a revised indicator for other production systems and water types to TAG for endorsement for public consultation	2 nd draft recommendations for revised benthic indicators for marine cages and 1 st draft recommendations for a revised indicator for other production systems and water types endorsed by the TAG for public consultation
6	MAR- APR 2022	PUBLIC CONSULTATION	
7	MAY-JUN 2022	TWG meetings (public consultation follow up)	Final draft recommendations for revised benthic indicators for TAG endorsement for public consultation
5	JUL 2022	Present final draft of TWG's recommendations for revised benthic quality to TAG for	Final draft recommendations for revised benthic indicators endorsed by the TAG for final public
		endorsement for final public consultation	consultation
6	SEP-OCT 2022	consultation	

5. Resources

Membership of ASC TWGs is voluntary and unpaid. Reasonable expenses will be paid for attendance at in-person meetings to cover travel and associated subsistence costs. Accommodation will be provided.