

Form 3 - Public Disclosure Form

PDF 1 Public Disclosure Form

This form shall be submitted by the CAB no less than thirty (30) working days prior to any onsite audit *. Any changes to this information shall be submitted to the ASC within five (5) days of the change and not later than 10 days before the planned audit. If later, a new announcement is submitted and another 30 days rule will apply.

The information on this form shall be public * and should be posted on the ASC website within three (3) days of submission.

This form shall be written to be readable to the stakeholders and other interested parties.

This form should be translated into local languages when appropriate

PDF 1.1 Name of CAB	DNV-GL
PDF 1.2 Date of Submission	Initial Audit notification sent ASC 06.04.18
PDF 1.3 CAB Contact Person PDF 1.3.1 Name of Contact Person	Thomas Vavik Bekken
PDF 1.3.2 Position in the CAB's organisation	Lead Auditor



PDF 1.3.3 Mailing address	DNV GL - Business Assurance Norway AS Veritasveien 1 1322 Høvik Norway
PDF 1.3.4 Email address	thomas.vavik.bekken@dnvgl.com
PDF 1.3.5 Phone number	0047 48 10 39 84
PDF 1.3.6 Other	

PDF 1.4 ASC Name of Client

PDF 1.4.1 Name of Company	Cermaq Norway AS
PDF 1.4.2 Name of Contact Person	Silje Ramsvatn
PDF 1.4.3 Position in the client's organisation	Sustainability manager, Cermaq Norway AS
PDF 1.4.4 Mailing address	Cermaq Norway AS, 8266 Nordfold, Norway
PDF 1.4.5 Email address	silje.ramsvatn@cermaq.com

^{*} Except unannounced audits, for which this form will be sent to the ASC and AAB without being published



PFD 1.4.6 Phone number	0047-23 68 55 33
PDF 1.4.7 Other	Website: www.cermagnorway.com

PDF 1.5 Unit of Certification

PDF 1.5.1 Single Site

PDF 1.5.2 Multi-site

PDF 1.5.3 Group certification

PDF 1.6 Sites to be audited

Site Name	GPS Coordinates	Other Location Information	Planned Site Audit(s)	Date of planned audit
10790 Olderfjord	70°23'9,53"N; 23°28'20,17	'E Cermaq Norway AS, 10790 Olderfjord, 8286 Nordfold,	10790 Olderfjord	Week 21 and 22 2018
		Norway		2010

PDF 1.7 Species and Standards

Standard	Species (scientific name) produced	Included in scope (Yes/No)	ASC endorsed standard to be used	Version Number
Salmon	Salmo salar	Yes	ASC Salmon Standard	V1.1 - April 2017

PDF 1.8 Planned Stakeholder Consultation(s) and How Stakeholders can Become Involved

Name/organisation	Relevance for this audit	How to involve this	When stakeholder may	How this
		stakeholder (in-	be contacted	stakeholder will
		person/phone		be contacted
		interview/input		
		submission)		



Mattilsynet	Food Safety Authorities	Written notifications with request for submissions	Preaudit and preliminary report publication	Written notifications
Finnmark Fylkeskommune	Reginonal authority	Written notifications with request for submissions	Preaudit and preliminary report publication	Written notifications
Kystverket	Coastal/Maritime authority	Written notifications with request for submissions	Preaudit and preliminary report publication	Written notifications
- iskeridirektoratet	Fisheries authority	Written notifications with request for submissions	Preaudit and preliminary report publication	Written notifications
Kvalsund kommune	Local Municipality	Written notifications with request for submissions	Preaudit and preliminary report publication	Written notifications
Fylkesmannen i Finnmark	Reginonal authority	Written notifications with request for submissions	Preaudit and preliminary report publication	Written notifications
Finnmarkseiendomen	Local interest organization	Written notifications with request for submissions	Preaudit and preliminary report publication	Written notifications
Seiland	Regional authority	Written notifications with request for submissions	Preaudit and preliminary report	Written notifications

PDF 1.9 Proposed Timeline

PDF 1.9.1 Contract Signed: 22.01.2018



PDF 1.9.2	Start of audit:	06.04.18 (ASC notification)
PDF 1.9.3	Onsite Audit(s):	Week 21 and 22 - 2018
PDF 1.9.4	Determination/ Decision:	06.04.2018: Pending final certification decision in final report Audit conclusion Final Report: Compliant and certified

PDF 1.10 Audit Team

	Column1	Name	ASC Registration Reference
PDF 1.10.1	Lead Auditor	Thomas Vavik Bekken	
PDF 1.10.2	Technical Experts	N/A	
PDF 1.10.3	Social Auditor	Darius Pamakstys	



ASC Audit Report - Opening

General Requirements

- C1 Audit reports shall be written in English and in the most common language spoken in the areas where the operation is located.
- C2 Audit reports may contain confidential annexes for commercially sensitive information.
 - **C2.1** The CAB shall agree the content of any commercially sensitive information with the applicant, which can still be accessible by the ASC and the appointed accreditation body upon request as stipulated in the certification contract.
 - **C2.2** The public report shall contain a clear overview of the items which are in the confidential annexes.
 - C2.3 Except for the annexes that contain commercially sensitive information all audit reports will be public.
- C3 The CAB is solely responsible for the content of all reports, including the content of any confidential annexes.

C4 Reporting Deadlines* for certification and re-certification audit reports

- C4.1 Within thirty (30) days of the completing of the audit the CAB shall submit a draft report in English and the national or most common language spoken in the area where the operation is located.
- C4.2 Within five (5) days the ASC should post the draft report to the ASC website.
- **C4.3** The CAB shall allow stakeholders and interested parties to comment on the report for fifteen (15) days.
- **C4.4** Within twenty (20) days of the close of comments, the CAB shall submit the final report to the ASC in English and the national or most common language spoken in the area where the operation is located.
- **C4.5** Within five (5) days the ASC should post the final report to the ASC website.
- C4.6 Audit reports shall contain accurate and reproducable results.

C5 Reporting Deadlines* for surveillance audit reports

- C5.1 Within ninety (90) days of the completing of the audit the CAB shall submit a final report in English and the national or most common language spoken in the area where the operation is located.
- **C5.2** Within five (5) days the ASC should post the final report to the ASC website.
- **C5.3** Audit reports shall contain accurate and reproducable results.

1 Title Page

1.1 Name of Applicant	Cermaq Norway AS 10790 Olderfjord farm
4.2 Para 1 Tilla I a a B. I I'a	
1.2 Report Title [e.g. Public Certification Report]	ASC Initial audit, Final report



1.3 CAB name	DNV GL
1.4 Name of Lead Auditor	Thomas Vavik Bekken, Lead Auditor
1.5 Names and positions of report	Lead Auditor - Thomas Vavik Bekken, author of report
authors and reviewers	Social auditor - Darius Pamakstys
	Lead Auditor - Kim Andre Karlsen, Reviewer
1.6 Client's Contact person: Name and	Silje Ramsvatn. Sustainability Manager Cermaq Norway AS
Title	
1.7 Date	Final Report date, 15.08.2018
2 Table of Contents	

3 Glossary

Terms and abbreviations that are specific to this audit report and that are not otherwise defined in the ASC glossary 1) MOM-B and MOM-C are surveys of benthic environment at or near farm, according to NS 9410 (Norwegian Standard 9410). 2) NFSA is Norwegian Food Safety Authority. 3) "Nytek" NS9415 (Norwegian Standard 9415) are technical certifications of Marine fish farms with Requirements for design, dimensioning, production, installation and operation. 4) MTB is Maximum Allowed Biomass. 5) FHP is Fish Health Plan. 6) GG is GLOBALG.A.P. IFA (Integrated Farm Assurance. 7) GGN is GLOBALG.A.P. unique registration number. 8) THOVB is acronym for Thomas Vavik Bekken (lead auditor). 9) DP is acronym Darius Pamakstys. 9) NINA is Norwegian institute for Nature Research. 10) IMR is Institute of Marine Research.

4 Summary

A concise summary of the report and findings. The summary shall be written to be readable to the stakeholders and other interested parties.

4.1 A brief description of the scope of the audit

A brief description of the scope of ASC audit of 10790 Olderfjord, a seasite



4.2	A brief description of the operations of the unit of certification	Production of Atlantic Salmon (Salmo salar)
4.3	Type of unit of certification (select only one type of unit of certification in the list)	Single Farm
4.4	Type of audit (select all the types of audit that apply in the list)	Initial audit 2018
4.5	A summary of the major findings	Refer to report section II Audit template and Summary of findings - Closing for NCs found during audit
4.6	The Audit determination	The Audit determination at Final report stage:
		Corrective actions for closing or acceptance of Minor Non conformities, subject to corrective action plan for the non conformities are presented and approved by DNV GL. There were no stakeholders' submissions in response to the publication of the draft report within the designated period of time, with the conclusion that certification, based on the outcome of this certification audit is recommended. The final certification decision has been taken after needed activities, as per ASC Farm Certification and Accreditation Requirements Version 2.1 August 2017.
		The organization described in section 3 of this report for the activities described in the section 3 itself is:
		• Compliant and certified
5 CAB Contact	Information	
		DIVICE
5.1	CAB Name	DNV GL

5.3 Email Address

CAB Mailing Address

OSL.Certification.ASCfarm@dnvgl.com

DNV GL - Business Assurance Norway AS

Veritasveien 1 1322 Høvik Norway

5.2



Other Contact Information 5.4

Phone to DNV GL +47 67 57 99 00

6 Background on the Applicant

6.1 Information on the Public Disclosure Form Yes (Form 3) except 1.2-1.3 All information updated as necessary to reflect the audit as conducted.

A description of the unit of certification (for initial audit) / changes, if any (for surveillance and recertification audits)

Olderfjord is a conventional floating cage salmon farm. The 12 production cages are circular floating plastic rings with the dimension 160 m circumference, with pointed nets. Central on the farm is a feed barge, with centralized feeding system and visual/camera control of feeding. All installations are certified after "NS-9415 NYTEK" regulations standard.

Register, details and maps of location for the site available at: http://www.fiskeridir.no/register/akvareg/

Other certifications currently held by the unit of certification

GlobalG.A.P. IFA. ISO 9001-2015, OHSAS 18001 - 2017, ISO 22000 (all held on company level)

Other certification(s) obtained before this 6.4 audit

As above.

Estimated annual production volumes of 6.5 the unit of certification of the current year

2018: 4800 tons

6.6 Actual annual production volumes of the unit of certification of the previous year (mandatory for surveillance and recertification audits)

2017: 1400 tons

Production system(s) employed within the Floating net-pens/cages unit of certification (select one or more in the list)



6.8 Number of employees working at the unit of certification

6 permanent employees plus site manager (site manager shared with site Storholmen).

7 Scope

The Standard(s) against which the audit 7.1 was conducted, including version number ASC Salmon Standard, version 1.1 April 2017

The species produced at the applicant farm Atlantic Salmon (Salmo salar) 7.2

A description of the scope of the audit of certification covers all production or harvest areas (i.e. ponds) managed by the operation or located at the included sites, or whether only a sub-set of these are included in the unit of certification. If only a sub-set of production or harvest areas are included in the unit of certification these shall be clearly named.

The audit was conducted as document reviews (digital and hard-copy information) as well as interviews conducted with relevant staff including 10790 including a description of whether the unit Olderfjord staff, typically a combination of document reviews and staff interviews. Demonstrations of equipment and processes took place, relevant to the scope of the audit, according to the ASC Salmon Standard v1.1 and following guidelines in the ASC Salmon Audit Manual v1.1. No sub-sites are operated by the farm and the complete farm is included in the scope of certification. No handling of fish related to harvest is conducted on the farm. ongrowing, only. Live fish for harvest is transported to harvest plants by subcontracted live fish carriers (se 7.4 below for details).



7.4 The names and addresses of any storage, processing, or distribution sites included in the operation (including subcontracted operations) that will potentially be handling certified products, up until the point where product enters further chain of custody.

Only approved live-fine cages/harvest plant.

Biosecurity legislation visiting/ harvesting fine prevented by biosecused.

There are slaughtered.

Only approved live-fish carriers (Subcontractor; Norsk Fisketransport AS) are used during transhipments of salmon between the site and waiting cages/harvest plant.

Biosecurity legislation and implemented QMS management system and procedures at the site and within the company prevent the wellboats from visiting/ harvesting from other salmon farms/sites. The possibility for mixture of salmon in waiting cages from salmon from other farm/sites is also prevented by biosecurity legislation and implemented QMS management system and procedures at the site and within the harvesting/processing plant used.

There are slaughtered fish from only one waiting cage at a time in the harvest/processing plant

Transports are always identifiable on production unit level (cage).

All information is kept both in electronic system Fish Talk and Maritech system for Harvest/Post-harvest operations and in hard copies.

Post-harvest operations performed at Cermaq Norway Slakteri F-430, Havneveien 36, 9600 Hammerfest. ASC-C-00687, Exp. date 04.06.2021. Ref. to www.asc-aqua.org where updated information can be found.

7.5 Description of the receiving water body(ies).

The farm is located in municipaity of Kvalsund, Finnmark country. Sites receiving water-body is Vargsund. Regional water-body authority is Finnmark Fylkeskommune. This is a coastal water area. Categorised as a coastal fjord, of Euhaline nature (>30o/ooS). Ecological quality is defined as good. Chemical condition is not defined in public documentation.

Details @ www.vannportalen.no

The site is under voluntary ABM system. There is other salmon farming activity in the area, including nearby farms. There are natural wild salmon populations in the area. Overview of salmon watercourses in the area are available in map tools from the Environment Agency / Salmon Registry: http://lakseregister.fylkesmannen.no/lakseregister/public/default.aspx

8 Audit Plan

8.1 The names of the auditors and the dates when each of the following were undertaken or completed: conducting the audit, writing of the report, reviewing the report, and taking the certification decision. Thomas Vavik Bekken, Lead Auditor

Darius Pamakstys, Social Auditor

Kim Andre Karlsen, Technical Reviewer

Onsite audit was finished 31.05.2018

Initial audit draft report sent to technical review 22.06.2018

Technical Review of Initial audit draft report were finished 03.07.2018

Initial audit draft report sent to ASC 10.07.2018

Final Report finished 15.08.2018

Technical review of Final Report finished 23.08.2018

Certification decision was taken 23.08.2018



8.2	Previo	ous Audits (if applicable):	Standa clause NC reference number referen	Closing dea	adline - status - closing date of e	each NC	
	8.2.1	Initial audit - mm/yyyy Surveillance audit 1 - mm/ yyyy					
		Surveillance audit 2 - mm/ yyyy					
		Recertification audit - mm/ yyyy					
		Unannounced audit - mm/ yyyy					
		NC close-out audit - mm/ yyyy					
		Scope extension audit mm/ yyyy					

8.4

Audit _l	plan as implemented including:		
		Dates	Locations
8.4.1	Desk Reviews	18.05.2018	
8.4.2	Onsite audits	22.05.2018 - 25.05.2018, 28.05.2018 - 31.05.2018	Onsite
8.4.3	Stakeholder interviews and Community meetings		No submissions received from notified stakeholders.
8.4.4	Draft report sent to client	10.07.2018	Initial audit 2018 report
8.4.5	Draft report sent to ASC	10.07.2018	Initial audit 2018 report
8.5.5	Final report sent to Client and ASC	28.08.2018	Initial audit 2018 report



8.7 Names and affiliations of individuals consulted or otherwise involved in the audit including: representatives of the client, employees, contractors, stakeholders and any observers that participated in the audit.

Silje Ramsvatn Environmental Coordinator

Rune Berg, H&S Coordinator

Liv Andrea Myklevoll, HR Coordinator

Jonny Opdahl, Production Mananger farming

Randi Rydland, Controller

Ola Gunder Henriksen, QA coordinator Finnmark

Kjetil Knutsen, Production and service coordinator

Ronny Mortensen, Production Manager Area

Torgeir Nilsen, Production Manager Area

Elisabeth Myklebust, Fish Health Manager

Solfrid Henriksen Smolt Coordinator

Tor Espen Olausen, Site Manager, Storholmen and Olderfjord

The audit was held in the company's head office, focusing on technical and legal matters, mainly, with relevant operational and administrative staff present. The second part of the audit comprised a site visit to Olderfjord, covering remaining technical and administrative issues and completed the social responsibility issues. The audit was conducted as document reviews (digital and hard-copy information) as well as interviews conducted with relevant staff typically a combination of document reviews and staff interviews.

The interviews pertinent to the Social Responsibility Section of the ASC Salmon Standard were held in conditions allowing for confidentiality of the dialogues and under no constraints of free speech of the interviewees. These interviewees are not named in the report for the same reason.

Demonstrations of equipment and processes took place, relevant to the scope of the audit, according to the ASC Salmon Standard v1.1 and following guidelines in the ASC Salmon Audit Manual v1.1.

8.8 Stakeholder submissions, including written or other documented information and CAB written responses to each submission.

Name of stakeholder (if permission given to make name public)	Date of contact	CAB responded Yes/No	Brief summary of points Raised	Use of comment by CAB	Response sent to stakeholder





AUDIT MANUAL - ASC Salmon Standard v1.1

Scope: species belonging to the genus Salmo and Oncorhynchus

INSTRUCTION TO FARMS/AUDITORS:

This audit manual was developed to accompany version 1.1 of the ASC Salmon Standard.

References in this Audit Manual to Appendices can be found in the ASC Salmon Standard document.

		PRINCIPLE 1: COMPLY WITH ALL APPLICABL	E NATIONAL LAWS AND LOCAL REGULATIONS			
		Criterion 1.1 Compliance with all applicable loca	l and national legal requirements and regulations			
		Compliance Criteria (Required Client Actions):	Audit evidence 1. Write down all audit evidence for each compliance criterion (CC). Audit evidence (including evidence of conformity and nonconformity) should be recorded so that the audit can be repeated by a different audit team. 2. Replace explanitory text in the 'Audit Evidence' column as appropriate. 3. If you see any Compliance Criteria which is not listed below, please describe also in the cells below.	Evaluation (Per indicator, select one category in the drop-down menu)	Description of NC Provide an explanation of the reason(s) for the classification of any NCs or non-applicability	Value/ Metric Provide values - if applicable for the respective Indicator
		a. Maintain digital or hard copies of applicable land and water use laws.	Electronic copies of laws, regulations and requirements with references to Lovdata with updates and electronic links in Intelex system. Covered by internal procedures in QMS. Strict monitored by relevant authorities on these issues.			
1.1.1	Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use	b. Maintain original (or legalised copies of) lease agreements, land titles, or concession permit on file as applicable.	Approved operating plan for 2018 from DOF (Fiskeridirektoratet) dt. 19.03.18. Approved operating plan for 2018 from NFSD (Mattilsynet), ref 2018/029878 dt. 09.02.2018 and 2018/232696, dt. 14.11.2017. Licence from DOF (Fiskeridirektoratet), ref 07/3911-22 dt.06.08.08, location id 10790 Olderfjord, MTB 3480 tons. Discharge permit from Fylkesmannen i Finnmark, dated 19.01.2012, ref 2012/308. Discharge permit for 3480 MTB	Compliant		
	Requirement: Yes Applicability: All	c. Keep records of inspections for compliance with national and local laws and regulations (if such inspections are legally required in the country of operation).	Inspection from NFSD (Mattilynset), dt. 06.02.2017, ref 2017/023786, routine inpection regarding fish welfare and sampling to the national surveillance program for MRL - No NC and 1 opportunity for improvement. No need for further documentation or record	Сотришт		
		d. Obtain permits and maps showing that the farm does not conflict with national preservation areas.	Permit approval for location from Norwegian authorites. Fisheries directorate map "kart .fiskeridir.no", map from "Naturbase"and map nasjonale laksefjorder shows no conflicts with national preservation areas and is within area designated for Aquaculture. The site is located in a approved area for aquaculture due to the area management plan from Kvalsund Community			
		a. Maintain records of tax payments to appropriate authorities (e.g. land use tax, water use tax, revenue tax). Note that CABs will not disclose confidential tax information unless client is required to or chooses to make it public.	Authorised auditor report/statement for organisation number 961922976, dt.23.06.17 by Deloitte			
	Indicator: Presence of documents demonstrating compliance with all tax laws	b. Maintain copies of tax laws for jurisdiction(s) where company operates.	Lovdata access to updated versions in quality system Intelex			



1.1.	Requirement: Yes Applicability: All	c. Register with national or local authorities as an "aquaculture activity".	Brønnøysundregisteret registreted for aquacultur activity organisation number 961922976. Approved operating plan for 2018 from DOF (Fiskeridirektoratet) dt. 19.03.18. Approved operating plan for 2018 from NFSD (Mattilsynet), ref 2018/029878 dt. 09.02.2018 and 2018/232696, dt. 14.11.2017. Licence from DOF (Fiskeridirektoratet), ref 07/3911-22 dt.06.08.08, location id 10790 Olderfjord, MTB 3480 tons. Discharge permit from Fylkesmannen i Finnmark, dated 19.01.2012, ref 2012/308. Discharge permit for 3480 MTB	Compliant	
	Indicator: Presence of documents demonstrating	a. Maintain copies of national labor codes and laws applicable to farm (scope is restricted to the farm sites within the unit certification.)	Lovdata access to updated versions in quality system Intelex		
1.1.	compliance with all relevant national and local labor laws and regulations Requirement: Yes Applicability: All	b. Keep records of farm inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation).	Inspection from NLA (Arbeidstilsynet), dt. 19.01.2018, ref, 2017/50335, regarding an HSE incident on site Komangens (neighbor site) and how the comapny work with coorective actions after incidents and accidents. 1 NC regarding system surveillance - corrective actions whitin 14.04.2018. Answer form Cermaq dated 11.04.18. Closing report from NLA is not received	Compliant	
	Indicator: Presence of documents demonstrating compliance with regulations and permits concerning water quality impacts	a. Obtain permits for water quality impacts where applicable.	Approved operating plan for 2018 from DOF (Fiskeridirektoratet) dt. 19.03.18. Approved operating plan for 2018 from NFSD (Mattilsynet), ref 2018/029878 dt. 09.02.2018 and 2018/325696, dt. 14.11.2017. Licence from DOF (Fiskeridirektoratet), ref 07/3911-22 dt.06.08.08, location id 10790 Olderfjord, MTB 3480 tons. Discharge permit from Fylkesmannen i Finnmark, dated 19.01.2012, ref 2012/308. Discharge permit for 3480 MTB		
1.1.	Requirement: Yes Applicability: All	b. Compile list of and comply with all discharge laws or regulations.	As described in above permits. MOM-B according to Norwegian legislation and NS9410 dt. performed by Akvaplan Niva. Report nr.APN 8225.01, dt. 05.04.2016. Result: Category 1: Very good.	Compliant	
		c. Maintain records of monitoring and compliance with discharge laws and regulations as required.	MTB reported to auhtorities/ Altinn end of month. Compliance and updates assured according to "Prosedyre for miljøovervåking av havbunn og omkringliggende miljø matfiskanlegg" ID 332, dt. 05.02.18.		
		DDINGIDLE 3. CONCEDUE NATURAL HARITAT I	OCAL BIODIVERSITY AND ECOSYSTEM FUNCTION		

PRINCIPLE 2: CONSERVE NATURAL HABITAT, LOCAL BIODIVERSITY AND ECOSYSTEM FUNCTION

Criterion 2.1 Benthic biodiversity and benthic effects [1]

Footnote [1] Closed production systems that can demonstrate that they collect and responsibly dispose of > 75% of solid nutrients from the production system are exempt from standards under Criterion 2.1. See Appendix VI for requirements on transparency for 2.1.1, 2.1.2 and 2.1.3.

Instruction to Clients and CABs on Criterion 2.1 - Modification of the Benthic Sampling Methodology

For farms located in a jurisdiction where specific benthic sampling locations are required under law, clients may request to modify the benthic sampling methodology prescribed in Appendix I-1 to allow for sampling at different locations and/or changes in the total number of samples. Where modifications are sought, farms shall provide a full justification to the CAB for review. Requests for modification shall be supported by mapping of differences in sampling locations. In any event, the sampling locations must at a minimum include samples from the cage edge and samples taken from inside and outside of a defined AZE.

CABs shall evaluate client requests to modify benthic methodology based on whether there is a risk that such changes would jeopardize the intent and rigor of the ASC Salmon Standard. If the CAB determines that proposed modifications are low risk, the CAB shall ensure that details of the modified benthic sampling methodology are fully described and justified in the audit report.

Note: Under Indicator 2.1.1, farms can choose to measure redox potential (Option #1) or sulphide concentration (Option #2). Farms do not have to demonstrate that they meet both threshold values.



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		a. Prepare a map of the farm showing boundary of AZE (30 m) and GPS locations of all sediment collections stations. If the farm uses a site-specific AZE, provide justification [3] to the CAB.	Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian authorities and legislation requirement) Point adapted to bathymetric conditions.Performed by Akvaplan Niva, report nr. 8630.01 dt 03.03.17. Sampling dated 30.11.16. VanVeen grab used according to established method. 6 sampling stations (8 including copperstations), sampling in near, intermediate and remote zone.			
		b. If benthos throughout the full AZE is hard bottom, provide evidence to the CAB and request an exemption from 2.1.1c-f, 2.1.2 and 2.1.3.	Hard bottom/Sediments			
		c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.	Option #1			
	Indicator: Redox potential or [2] sulphide levels in sediment outside of the Allowable Zone of Effect (AZE) [3], following the sampling methodology outlined in Appendix I-1 Requirement: Redox potential > 0 mV or Sulphide ≤ 1,500 µMol/L Applicability: All farms except as noted in [1]	d. Collect sediment samples in accordance with the methodology in Appendix I-1 (i.e. at the time of peak cage biomass and at all required stations).	Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions.Performed by Akvaplan Niva, report nr. 8630.01 dt 03.03.17. Sampling dated 30.11.16. Van/Veen grab used according to established method. 6 sampling stations (8 including copperstations), sampling in near, intermediate and remote zone. Done at peak biomasse. Next MOM C scheduled at next peak biomasse in October/November 2018	Compliant		11
		e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing method.	Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions.Performed by Akvaplan Niva, report nr. 8630.01 dt 03.03.17. Sampling dated 30.11.16. VanVeen grab used according to established method. 6 sampling stations (8 including copperstations), sampling in near, intermediate and remote zone. Redox stations sampling 2, 3, 4 and 6 from intermediate and remote zone, outside AZE. Redox Eh values ranging from ST2 = 11, ST3 = 21, ST4 = 12, ST6 = 11 (mV) MOM-C as per national regulations (NS 9410) ASC adapted (ISO 16665).			
		f. For option #2, measure and record sulphide concentration (μM) using an appropriate, nationally or internationally recognized testing method.	Redox potential. National regulations (NS 9410)			
		g. Submit test results to ASC as per Appendix VI at least once for each production cycle. If site has hard bottom and cannot complete tests, report this to ASC.	Submitted to ASC in email dt.22.05.18			
Footnote		[2] Farm sites can choose whether to use redox or	sulphide. Farms do not have to demonstrate that they meet both.			
Footnote	[3] Allowable Zone of Effect (AZE) is def	fined under this standard as 30 meters. For farm sites where a site-specific AZE has been defined	d using a robust and credible modeling system such as the SEPA AUTODEPOMOD and verified t	hrough monito	ring, the site-specific AZE shall be used.	
		Notes: - Under Indicator 2.1.2, farms can choose one of four measurements to show compliance with (Option #3), or ITI (Option #4). Farms do not have to demonstrate that they meet all four thres - If a farm is exempt due to hard bottom benthos (see 2.1.1b), then 2.1.2 does not apply and ti	shold values.			



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		a. Prepare a map showing the AZE (30 m or site specific) and sediment collections stations (see 2.1.1).	Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian authorities and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 8630.01 dt 03.03.17. Sampling dated 30.11.16. VanVeen grab used according to established method. 6 sampling stations (8 including copperstations), sampling in near, intermediate and remote zone.			
		b. Inform the CAB whether the farm chose option #1, #2, #3, or #4 to demonstrate compliance with the requirement.	Opt #2 Shannon Wierner used.			
	Indicator: Faunal index score indicating good [4] to high ecological quality in sediment outside the AZE, following	c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1).	Van Veen grab used according to site specific MOM-C (NS9410) Done at peak biomasse. Next MOM C scheduled at next peak biomasse in October/November 2018			
	the sampling methodology outlined in Appendix I-1 Requirement: AZTI Marine Biotic Index (AMBI [5]) score	d. For option #1, measure, calculate and record AZTI Marine Biotic Index [5] score of sediment samples using the required method.	Opt #2 Shannon Wierner used.			
2.1.2	≤ 3.3, or Shannon-Wiener Index score > 3, or Benthic Quality Index (BQI) score ≥ 15, or Infaunal Trophic Index (ITI) score ≥ 25 Applicability: All farms except as noted in [1]	e. For option #2, measure, calculate and record Shannon-Wiener Index score of sediment samples using the required method.	Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian ASC adapted) Modified MOM-C according to NS9410 (Norwegian by Akvaplan Niva, report nr. 8630.01 dt 03.03.17. Sampling dated 30.11.16. VanVeen grab used according to established method. 6 sampling stations (8 including copperstations), sampling in near, intermediate and remote zone. Shannon Wiener index score outside AZE: stations, 2, 3, 4 and 6, RESULTS: ST2 = 5,08 ST3 = 4,78 ST4 = 5,36 and ST6 = 5,20	Compliant		4,78
		f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment samples using the required method.	Opt #2 Shannon Wierner used.			
		g. For option #4, measure, calculate and record Infaunal Trophic Index (ITI) score of sediment samples using the required method.	Opt #2 Shannon Wierner used.			
		h. Retain documentary evidence to show how scores were obtained. If samples were analyzed and index calculated by an independent laboratory, obtain copies of results.	MOM-C as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory performed the sampling and calculation of faunal index.			
		i. Submit faunal index scores to ASC (Appendix VI) at least once for each production cycle.	Submitted to ASC in email dt.22.05.18			
Footnot	[4] "Good" Ecologica	l Quality Classification: The level of diversity and abundance of invertebrate taxa is slightly outs	ide the range associated with the type-specific conditions. Most of the sensitive taxa of the type	e-specific comr	nunities are present.	
Footnot		[5] http://www.azti.es/	en/ambi-azti-marine-biotic-index.html.			
		a. Document appropriate sediment sample collection as for 2.1.1a and 2.1.1c, or exemption as per 2.1.1b.	Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian authorities and legislation requirement) Point adapted to bathymetric conditions.Performed by Akvaplan Niva, report nr. 8630.01 dt 03.03.17. Sampling dated 30.11.16. VanVeen grab used according to established method. 6 sampling stations (8 including copperstations), sampling in near, intermediate and remote zone.			



2.1.3	Indicator: Number of macrofaunal taxa in the sediment within the AZE, following the sampling methodology outlined in Appendix I-1 Requirement: ≥ 2 highly abundant [6] taxa that are not pollution indicator species Applicability: All farms except as noted in [1]	b. For sediment samples taken within the AZE, determine abundance and taxonomic composition of macrofauna using an appropriate testing method. c. Identify all highly abundant taxa [6] and specify which ones (if any) are pollution indicator species. d. Retain documentary evidence to show how taxa were identified and how counts were obtained. If samples were analyzed by an independent lab, obtain copies of results.	Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian authorities and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 8630.01 dt 03.03.17. Sampling dated 30.11.16. VanVeen grab used according to established method. 6 sampling stations (8 including copperstations), sampling in near, intermediate and remote zone. Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 8630.01 dt 03.03.17. Sampling dated 30.11.16. VanVeen grab used according to established method. 6 sampling stations (8 including copperstations), sampling in near, intermediate and remote zone. Highly abundant taxa whitin AZE: stations 1 and 5, RESULTS: ST1 = 1 and ST5 = 0 According to national regulations (NS 9410) both station whitin AZE are classified as category 2 MOM-B/C as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory performed the sampling and calculation of faunal index.	Minor	Report from Akvaplan-niva AS, report no. 8630.01 dt 03.03.17 including results from samplings dated 30.11.2016. The sample 1 and 5 inside AZE are showing only 1 highly abundant taxa that are not pollution species Accepted - 19.06.18 THOVB: Root cause, corrective and preventive actions accepted	0-1
		e. Submit counts of macrofaunal taxa to ASC (Appendix VI) at least once for each production cycle.	Submitted to ASC in email dt.22.05.18			
Footnote		[6] Highly abundant: Greater than 100 organisms per square mete	r (or equally high to reference site(s) if natural abundance is lower than this level).			
		a. Undertake an analysis to determine the site-specific AZE and depositional pattern.	Site-specific sampling regime (MOM-C hybrid - ASC adapted/NS9410. Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement) survey developed and performed by Akvaplan Niva.			
2.1.4	Indicator: Definition of a site-specific AZE based on a robust and credible [7] modeling system Requirement: Yes	 Maintain records to show how the analysis (in 2.1.4a) is robust and credible based on modeling using a multi-parameter approach [7]. 	Site-specific sampling regime (MOM-C hybrid - ASC adapted/NS9410. Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement) survey developed and performed by Akvaplan Niva.	Compliant		
	Applicability: All farms except as noted in [1]	c. Maintain records to show that modeling results for the site-specific AZE have been verified with > 6 months of monitoring data.	Site-specific sampling regime (MOM-C hybrid - ASC adapted/NS9410. Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement) survey developed and performed by Akvaplan Niva.			
Footnote	[7] Robust and credible: The SE		ystem. The model must include a multi-parameter approach. Monitoring must be used to groun	nd-truth the AZ	E proposed through the model.	
		Criterion 2.2 Water quality in a Compliance Criteria (Required Client Actions):	and near the site of operation [8] Auditor Evaluation (Required CAB Actions):			
Footnote			ncy requirements for 2.2.1, 2.2.2, 2.2.3 and 2.2.5.			
Toothole		to accompletion transparer				



2.2.1	Indicator: Weekly average percent saturation [9] of dissolved oxygen (DO) [10] on farm, calculated following methodology in Appendix I-4	Instruction to Clients for Indicator 2.2.1 - Monitoring Average Weekly Percent Saturation of Appendix I-4 presents the required methodology that farms must follow for sampling the aver follows: - measurements may be taken with a handheld oxygen meter or equivalent chemical method; - equipment is calibrated according to manufacturer's recommendations; - measurements are taken at least twice daily: once in the morning (6 -9 am) and once in the a salinity and temperature must also be measured when DO is sampled; - sampling should be done at 5 meters depth in water conditions that would be experienced be each week, all DO measurements are used in the calculation of a weekly average percent satured in the calculation of a weekly average percent satured in the light of the calculation of the provided the audi and well-justified situations, farms may request that the CAB approve reduction of DO monito Exception [see footnote 12] If a farm does not meet the minimum 70 percent weekly average with a reference site. The reference site shall be at least 500 meters from the edge of the net given in the sample of the provided in the subject of the provided in the sample compared to the provided in the water sample compared to the provided in th	age weekly percent saturation of dissolved oxygen (DO). Key points of the method are as a fifternoon (3-6 pm) as appropriate for the location and season; y fish (e.g. at the downstream edge of a net pen array): uration. tor with a written justification (e.g. when samples are missed due to bad weather). In limited ring frequency to one sample per day. saturation requirement, the farm must demonstrate the consistency of percent saturation pen array, in a location that is understood to follow similar patterns in upwelling to the farm a, agricultural runoff or nutrient releases from coastal communities. For any such exceptions, cy with the reference site.		
	Requirement: ≥ 70% [11] Applicability: All farms except as noted in [11]	a. Monitor and record on-farm percent saturation of DO at a minimum of twice daily using a calibrated oxygen meter or equivalent method. For first audits, farm records must cover ≥ 6 months.	Continuos logging (AKVA log) of oxygen and temperature at 3 sampling stations at cages (additional reference station at barge). Seen record for the period 01.10.2017 to 25.05.2018. $Percent = \ \geq 70 \\ Mg/l = \ \geq 8,4$		
		b. Provide a written justification for any missed samples or deviations in sampling time.	No missed data		
		c. Calculate weekly average percent saturation based on data.	Seen record for the period 01.10.2017 to 25.05.2018. Percent = \geq 70 Mg/l = \geq 8,4	Compliant	≥ 70%
		d. If any weekly average DO values are < 70%, or approaching that level, monitor and record DO at a reference site and compare to on-farm levels (see Instructions).	No measurements below 70 % dissolved oxygen has been registered/observed.		
		e. Arrange for auditor to witness DO monitoring and calibration while on site.	Monitoring of oksygen and calibration routines verified on site. Good knowledge, instructions from equipment producer available.		
		f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.	Submitted to ASC in email dt.22.05.18		
Footnote		[9] Percent saturation: Percent saturation is the amount of oxygen dissolved in the water	sample compared to the maximum amount that could be present at the same temperature and	d salinity.	
Footnote		[10] Averaged weekly from two da	aily measurements (proposed at 6 am and 3 pm).		
Footnote		[11] An exception to this standard shall be made for farms that	at can demonstrate consistency with a reference site in the same water body.		
2.2.2	Indicator: Maximum percentage of weekly samples from 2.2.1 that fall under 2 mg/L DO	a. Calculate the percentage of on-farm samples taken for 2.2.1a that fall under 2 mg/L DO.	All above limits.	Compliant	≥ 8,4



1	Requirement: 5%				
	Applicability: All	b. Submit results from 2.2.2a as per Appendix VI to ASC at least once per year.	Submitted to ASC in email dt.22.05.18		
		a. Inform the CAB whether relevant targets and classification systems are applicable in the jurisdiction. If applicable, proceed to "2.2.3.b". If not applicable, take action as required under 2.2.4	EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen. (ref. "vannportalen.no). Finmark Fylkeskommune authority. Kvalsund muncipility") økologisk tilstand "god - veldig god". Ecological conditions good - very good Report from vannportalen.no dt. 25.05.18. http://vann-nett.no/water		
2.2.3	Indicator: For jurisdictions that have national or regional coastal water quality targets [12], demonstration through third-party analysis that the farm is in an area recently [13] classified as having "good" or "very good" water quality [14] Requirement: Yes [15] Applicability: All farms except as noted in [15]	b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification.	EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen. (ref. "vannportalen.no). Finmark Fylkeskommune authority. Kvalsund muncipility") økologisk tilstand "god - veldig god". Ecological conditions good - very good Report from vannportalen.no dt. 25.05.18. http://vann-nett.no/water	Compliant	
	Applicability. All tallist except to loces in [25]	c. Identify the most recent classification of water quality for the area in which the farm operates.	EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen. (ref. "vannportalen.no). Finmark Fylkeskommune authority. Kvalsund muncipility") økologisk tilstand "god - veldig god". Ecological conditions good - very good Report from vannportalen.no dt. 25.05.18. http://vann-nett.no/water		
Footnote		[12] Related to r	utrients (e.g., N, P, chlorophyll A).		
Footnote		[13] Within t	ne two years prior to the audit.		
Footnote		[14] Classifications of "good" and "very good" are used in the EU Water Framework Directive	e. Equivalent classification from other water quality monitoring systems in other jurisdictions are	e acceptable.	
Footnote	[15] Closed production syst	ems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients a	s well as > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) a	are exempt fror	n standards 2.2.3 and 2.2.4.
Footnote	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and at a	a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-5. For first audits, farm records must cover ≥ 6 months.	s well as > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) a EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen. (ref. "vannportalen.no). Finmark Fylkeskommune authority.	are exempt from	n standards 2.2.3 and 2.2.4.
Footnote 2.2.4	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of	a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-5. For first audits, farm records must cover ≥ 6	EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen.		n standards 2.2.3 and 2.2.4.
	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and at a reference site, following methodology in Appendix I-5	a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-5. For first audits, farm records must cover ≥ 6 months.	EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen. (ref. "vannportalen.no). Finmark Fylkeskommune authority. Kvalsund muncipility") økologisk tilstand "god - veldig god". Ecological conditions good - very good		n standards 2.2.3 and 2.2.4.
	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and at a reference site, following methodology in Appendix I-5 Requirement: Consistency with reference site	a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-5. For first audits, farm records must cover ≥ 6 months. b. Calibrate all equipment according to the manufacturer's recommendations. c. Submit data on N and P to ASC as per Appendix VI at least once per year.	EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen. (ref. "vannportalen.no). Finmark Fylkeskommune authority. Kvalsund muncipility") økologisk tilstand "god - veldig god". Ecological conditions good - very good	Compliant	n standards 2.2.3 and 2.2.4.
2.2.4	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and at a reference site, following methodology in Appendix I-5 Requirement: Consistency with reference site	a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-5. For first audits, farm records must cover ≥ 6 months. b. Calibrate all equipment according to the manufacturer's recommendations. c. Submit data on N and P to ASC as per Appendix VI at least once per year. [16] Farms shall monitor total N, NH4, NO3, total P and Ortho-P in the water co Instruction to Clients for Indicator 2.2.5 - Calculating Biochemical Oxygen Demand Biochemical Oxygen Demand (BOD) can be calculated based on cumulative inputs of N and C BOD = ((total N in feed – total N in fish)*4.57) + ((total C in feed – total C in fish)*2.67). • A farm may deduct N or C that is captured, filtered or absorbed through approaches such arvested fish. In this case, farm must submit breakdown of N & C captured/filtered/absorbe • Reference for calculation methodology: Boyd C. 2009. Estimating mechanical aeration re Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruz, Mexico. And: Global Aquaculture gapi/bod.html.	EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen. (ref. "vannportalen.no). Finmark Fylkeskommune authority. Kvalsund muncipility") økologisk tilstand "god - veldig god". Ecological conditions good - very good Report from vannportalen.no dt. 25.05.18. http://vann-nett.no/water umn. Results shall be submitted to the ASC database. Methods such as a Hach kit are acceptable to the environment over the course of the production cycle. th as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to d to ASC along with method used to estimate nutrient reduction. quirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the World Performance Index BOD calculation methodology available at http://web.uvic.ca/~gapi/explore-	Compliant	n standards 2.2.3 and 2.2.4.
2.2.4	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and at a reference site, following methodology in Appendix I-5 Requirement: Consistency with reference site Applicability: All farms except as noted in [16] Indicator: Demonstration of calculation of biochemical oxygen demand (BOD [17]) of the farm on a production cycle basis	a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-5. For first audits, farm records must cover ≥ 6 months. b. Calibrate all equipment according to the manufacturer's recommendations. c. Submit data on N and P to ASC as per Appendix VI at least once per year. [16] Farms shall monitor total N, NH4, NO3, total P and Ortho-P in the water co Instruction to Clients for Indicator 2.2.5 - Calculating Biochemical Oxygen Demand Biochemical Oxygen Demand (BOD) can be calculated based on cumulative inputs of N and OBOD = ((total N in feed – total N in fish)*4.57) + ((total C in feed – total C in fish)*2.67). • A farm may deduct N or C that is captured, filtered or absorbed through approaches such arvested fish. In this case, farm must submit breakdown of N & C captured/filtered/absorbe • Reference for calculation methodology: Boyd C. 2009. Estimating mechanical aeration re Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruz, Mexico. And: Global Aquaculture gapi/bod.html. Note 1: Calculation requires a full production cycle of data and is required beginning with the required to demonstrate to the CAB that data is being collected and an understanding of the	EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen. (ref. "vannportalen.no). Finmark Fylkeskommune authority. Kvalsund muncipility") økologisk tilstand "god - veldig god". Ecological conditions good - very good Report from vannportalen.no dt. 25.05.18. http://vann-nett.no/water umn. Results shall be submitted to the ASC database. Methods such as a Hach kit are acceptable to the environment over the course of the production cycle. h as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to d to ASC along with method used to estimate nutrient reduction. Equirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the World Performance Index BOD calculation methodology available at http://web.uvic.ca/~gapi/explore-production cycle first undergoing certification. If it is the first audit for the farm, the client is	Compliant	n standards 2.2.3 and 2.2.4.
2.2.4 Footnote	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and at a reference site, following methodology in Appendix I-5 Requirement: Consistency with reference site Applicability: All farms except as noted in [16] Indicator: Demonstration of calculation of biochemical oxygen demand (BOD [17]) of the farm on a production	a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-5. For first audits, farm records must cover ≥ 6 months. b. Calibrate all equipment according to the manufacturer's recommendations. c. Submit data on N and P to ASC as per Appendix VI at least once per year. [16] Farms shall monitor total N, NH4, NO3, total P and Ortho-P in the water co Instruction to Clients for Indicator 2.2.5 - Calculating Biochemical Oxygen Demand Biochemical Oxygen Demand (BOD) can be calculated based on cumulative inputs of N and OBOD = ((total N in feed – total N in fish)*4.57) + ((total C in feed – total C in fish)*2.67). • A farm may deduct N or C that is captured, filtered or absorbed through approaches such arvested fish. In this case, farm must submit breakdown of N & C captured/filtered/absorbe • Reference for calculation methodology: Boyd C. 2009. Estimating mechanical aeration re Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruz, Mexico. And: Global Aquaculture gapi/bod.html. Note 1: Calculation requires a full production cycle of data and is required beginning with the required to demonstrate to the CAB that data is being collected and an understanding of the	EU Water Directive 2000 gives Water quality objectives for area Vargusndet/Storholmen. (ref. "vannportalen.no). Finmark Fylkeskommune authority. Kvalsund muncipility") økologisk tilstand "god - veldig god". Ecological conditions good - very good Report from vannportalen.no dt. 25.05.18. http://vann-nett.no/water umn. Results shall be submitted to the ASC database. Methods such as a Hach kit are acceptable to the environment over the course of the production cycle. h as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to d to ASC along with method used to estimate nutrient reduction. quirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the World Performance Index BOD calculation methodology available at http://web.uvic.ca/~gapi/explore- te production cycle first undergoing certification. If it is the first audit for the farm, the client is calculations.	Compliant	n standards 2.2.3 and 2.2.4.



	[Applicability, All				I	
		a. Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box.	Present cycle 2017G. Full production cycle will be provided when fish is harvested, will be followed up at SA1. Able to calculate BOD, example of preliminary calculation 17G until 10.04.18: Biomass: 1524 MT Feed: 1523 MT BOD: 427 MT O2	Compliant		
		b. Submit calculated BOD as per Appendix VI to ASC for each production cycle.	Submitted to ASC in email dt.22.05.18			
Footnote		ish)*4.57) + ((total C in feed – total C in fish)*2.67). A farm may deduct N or C that is captured, f anical aeration requirement in shrimp ponds from the oxygen demand of feed. In: Proceedings http://web.uvic.d				
	Indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicals, including veterinary drugs,	a. Document control systems in good culture and hygene that includes all appropriate elements.	Procedure "Hygienereglement - Matfisk" ID 127, dt. 06.12.2017 Prosedure "Prosedyre for oppbevaring håndtering av kjemikalier og gasser", ID 473, 06.04.2018			
2.2.6	thereby ensuring that adverse impacts on environmental quality are minimised. Requirement: Yes	b. Apply the systems ensuring that staff are aware, qualified and trained to proberly implement them.	Verfified during audit	Compliant		
	Applicability: All	-	Verfified during audit			
			release from production			
		Compliance Criteria (Required Client Actions):	elease from production Auditor Evaluation (Required CAB Actions): ed to determine the fines (dust and small fragments) in finished product of fish feed which has	a diameter of 3	3 mm or more.	
	Indicator: Percentage of fines [18] in the feed at point of entry to the farm [20] (calculated following methodology	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	a diameter of :	3 mm or more.	
2.3.1		Compliance Criteria (Required Client Actions): Note: The methodology given in Appendix I-2 is us a. Determine and document a schedule and location for quarterly testing of feed. If testing	Auditor Evaluation (Required CAB Actions): ed to determine the fines (dust and small fragments) in finished product of fish feed which has Percentage of fines according to requirements. Registrations and calculations ranging from 0,0 to 0,70% in period 12.01.18 and 28.05.18. Monthly testing according to internal QMS		3 mm or more.	0.70%
2.3.1	entry to the farm [20] (calculated following methodology in Appendix I-2)	Compliance Criteria (Required Client Actions): Note: The methodology given in Appendix I-2 is us a. Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document rationale behind not testing on site. b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. c. Conduct test according to detailed methodology in Appendix I-2 and record results for the	Auditor Evaluation (Required CAB Actions): ed to determine the fines (dust and small fragments) in finished product of fish feed which has Percentage of fines according to requirements. Registrations and calculations ranging from 0,0 to 0,70% in period 12.01.18 and 28.05.18. Monthly testing according to internal QMS Intelex procedure "Prosedyre formottak og lagring" ID 260, dated 27.09.17	a diameter of :	3 mm or more.	0,70 %
2.3.1	entry to the farm [20] (calculated following methodology in Appendix I-2) Requirement: < 1% by weight of the feed Applicability: All farms except as noted in [19]	a. Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document rationale behind not testing on site. b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. c. Conduct test according to detailed methodology in Appendix I-2 and record results for the pooled sample for each quarter. For first audits, farms must have test results from the last 3 months.	Auditor Evaluation (Required CAB Actions): ed to determine the fines (dust and small fragments) in finished product of fish feed which has Percentage of fines according to requirements. Registrations and calculations ranging from 0,0 to 0,70% in period 12.01.18 and 28.05.18. Monthly testing according to internal QMS Intelex procedure "Prosedyre formottak og lagring" ID 260, dated 27.09.17 Appropriate testing technology as per ASC Percentage of fines according to requirements. Registrations and calculations ranging from 0,0 to 0,70% in period 12.01.18 and 28.05.18. Monthly testing according to internal QMS Intelex procedure "Prosedyre formottak og lagring" ID 260, dated 27.09.17	Compliant		
	entry to the farm [20] (calculated following methodology in Appendix I-2) Requirement: < 1% by weight of the feed Applicability: All farms except as noted in [19] [18] Fines: Dust and fragments in the feed. Particles that	a. Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document rationale behind not testing on site. b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. c. Conduct test according to detailed methodology in Appendix I-2 and record results for the pooled sample for each quarter. For first audits, farms must have test results from the last 3 months. separate from feed with a diameter of 5 mm or less when sieved through a 1 mm sieve, or particular distributions.	Auditor Evaluation (Required CAB Actions): ed to determine the fines (dust and small fragments) in finished product of fish feed which has Percentage of fines according to requirements. Registrations and calculations ranging from 0,0 to 0,70% in period 12.01.18 and 28.05.18. Monthly testing according to internal QMS Intelex procedure "Prosedyre formottak og lagring" ID 260, dated 27.09.17 Appropriate testing technology as per ASC Percentage of fines according to requirements. Registrations and calculations ranging from 0,0 to 0,70% in period 12.01.18 and 28.05.18. Monthly testing according to internal QMS Intelex procedure "Prosedyre formottak og lagring" ID 260, dated 27.09.17 cles that separate from feed with a diameter greater than 5 mm when sieved through a 2.36 melivered to farm).	Compliant m sieve. To be i	measured at farm gate (e.g., from feed bags al	ofter they are
Footnote	entry to the farm [20] (calculated following methodology in Appendix I-2) Requirement: < 1% by weight of the feed Applicability: All farms except as noted in [19] [18] Fines: Dust and fragments in the feed. Particles that	a. Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document rationale behind not testing on site. b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. c. Conduct test according to detailed methodology in Appendix I-2 and record results for the pooled sample for each quarter. For first audits, farms must have test results from the last 3 months. separate from feed with a diameter of 5 mm or less when sieved through a 1 mm sieve, or particular this. Samples that are measured shall be chosen randomly. Feed may be sampled immediately presponsible disposal of > 75% of solid nutrients and > 50% of dissolved.	Auditor Evaluation (Required CAB Actions): ed to determine the fines (dust and small fragments) in finished product of fish feed which has Percentage of fines according to requirements. Registrations and calculations ranging from 0,0 to 0,70% in period 12.01.18 and 28.05.18. Monthly testing according to internal QMS Intelex procedure "Prosedyre fôrmottak og lagring" ID 260, dated 27.09.17 Appropriate testing technology as per ASC Percentage of fines according to requirements. Registrations and calculations ranging from 0,0 to 0,70% in period 12.01.18 and 28.05.18. Monthly testing according to internal QMS Intelex procedure "Prosedyre fôrmottak og lagring" ID 260, dated 27.09.17 Let that separate from feed with a diameter greater than 5 mm when sieved through a 2.36 m elivered to farm).	Compliant m sieve. To be i	measured at farm gate (e.g., from feed bags al	ofter they are



		Note: If a farm has previously undertaken an independent assessment of biodiversity imp	pact (e.g. as part of the regulatory permitting process), the farm may use such documents as evi components in Appendix I-3 are explicitly covered.	dence to demo	onstrate compliance with Indicator 2.4.1 as long as	s all
		a. Perform (or contract to have performed) a documented assessment of the farm's potential				
2.4	Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains at a minimum the components outlined in Appendix I-3 Requirement: Yes Applicability: All	b. If the assessment (2.4.1a) identifies potential impact(s) of the farm on biodiversity or nearby critical, sensitive or protected habitats or species, prepare plan to address those potential impacts.	Impacts consequence assessment performed according to Appendix I-3. Document "Plan for miljø og biodiversitetsledelse". Cermaq Group AS annual corportae level environmental and sustainability report 2017. Internal impacts consequence assement performed using data from reaserch institutes and reports also considered in local impact from site/company performed for 2018." Procedure "Særskilt om ytre miljø og vedlegg til riskovurdering" ID 387, dt. 20.12.16 Marginal impacts only. Ref also license permit and assessment as part of the regulatory permitting process. Site has Risk Assessment for environmental impact with developed actions for potential environmental and biodiversity risks from site. Additional RA "Biodiversitetsfokusert risikovurdering for Vargsundet og Korsfjorden", dated 08.03.18 including action plan for environement Also MOM-B and MOM-C according to requirements in national legislation. Risk assessment for Storholmen/Olderfjord "Ytre miljø- utlsipp", dt. 15.04.2018	Compliant		
			Impacts consequence assessment performed according to Appendix I-3. Document "Plan for miljø og biodiversitetsledelse". Cermaq Group AS annual corportae level environmental and sustainability report 2017. Internal impacts consequence assement performed using data from reaserch institutes and reports also considered in local impact from site/company performed for 2018." Procedure "Særskilt om ytre miljø og vedlegg til riskovurdering" ID 387, dt. 20.12.16 Marginal impacts only. Ref also license permit and assessment as part of the regulatory permitting process. Site has Risk Assessment for environmental impact with developed actions for potential environmental and biodiversity risks from site. Additional RA "Biodiversitetsfokusert risikovurdering for Vargsundet og Korsfjorden", dated 08.03.18 including action plan for environmement Also MOM-B and MOM-C according to requirements in national legislation. Risk assessment for Storholmen/Olderfjord "Ytre miljø- utlsipp", dt. 15.04.2018			



	T				<u> </u>	
	Indicator: Allowance for the farm to be sited in a	Instruction to Clients for Indicator 2.4.2 - Exceptions to Requirements that Farms are not site. The following exceptions shall be made for Indicator 2.4.2: Exception #1: For protected areas classified by the International Union for the Conservation of for sustainable resource management). Exception #2: For HCVAs if the farm can demonstrate that its environmental impacts are complete placed on the farm to demonstrate that it is not negatively impacting the core reason an are Exception #3: For farms located in a protected area if it was designated as such after the farm impacts are compatible with the conservation objectives of the protected area and it is in comformation/designation of the protected area. The burden of proof would be placed on the far protected. Definitions Protected area: "A clearly defined geographical space, recognized, dedicated and managed the associated ecosystem services and cultural values."	Final Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes or batible with the conservation objectives of the HCVA designation. The burden of proof would ea has been identified as a HCVA. was already in operation and provided the farm can demonstrate that its environmental pliance with any relevant conditions or regulations placed on the farm as a result of the m to demonstrate that it is not negatively impacting the core reason an area has been rough legal or other effective means, to achieve the long-term conservation of nature with			
	protected area [20] or High Conservation Value Areas [21]	High Conservation Value Areas (HCVA): Natural habitats where conservation values are consid multi-stakeholder approach that provides a systematic basis for identifying critical conservatio	ered to be of outstanding significance or critical importance. HCVA are designated through a n values—both social and environmental—and for planning ecosystem management in order			
2.4.2	(HCVAs)	to ensure that these high conservation values are maintained or enhanced				
	Requirement: None [22] Applicability: All farms except as noted in [22]	a. Provide a map showing the location of the farm relative to nearby protected areas or High Conservation Value Areas (HCVAs) as defined above (see also 1.1.1a).	Fiskeridirektoratet.no map and DN Naturbase map with all known protected areas defined site is not in conflict with protected areas - HCVAs or CAs. Also considered in Impacts consequence assement performed according to Appendix I-3.	ng		
		b. If the farm is <u>not</u> sited in a protected area or High Conservation Value Area as defined above, prepare a declaration attesting to this fact. In this case, the requirements of 2.4.2c-d do not apply.	Statement Cermaq Norway AS Biodiversity RA above dt 01.08.16, that sites are not operating in HCVAs. Cermaq Group AS annual corporate level environmental and sustainability report 2017 also refers to policy and approach for HCVA.			
		c. If the farm <u>is</u> sited in a protected area or HCVA, review the scope of applicability of Indicator 2.4.2 (see Instructions above) to determine if your farm is allowed an exception to the requirements. If yes, inform the CAB which exception (#1, #2, or #3) is allowed and provide supporting evidence.	Not within HCVA			
		d. If the farm is sited in a protected area or HCVA and the exceptions provided for Indicator 2.4.2 do not apply, then the farm does not comply with the requirement and is ineligible for ASC certification.	Not within HCVA			
Footnote	[20] Protected area: "A clearly defined geographical sp	oace, recognized, dedicated and managed through legal or other effective means, to achieve the Management Categorie	long-term conservation of nature with associated ecosystem services and cultural values." Soues, Gland, Switzerland: IUCN. x + 86pp.	rce: Dudley, N.	(Editor) (2008), Guidelines for Applying Protect	ted Area
Footnote	[21] High Conservation Value Areas (HCVA): Natural I	habitats where conservation values are considered to be of outstanding significance or critical in environmental—and for planning ecosystem management in order to ensure the	nportance. HCVA are designated through a multi-stakeholder approach that provides a system at these high conservation values are maintained or enhanced (http://www.hcvnetwork.org/).	atic basis for ide	entifying critical conservation values—both soc	ial and
Footnote	[22] The following exceptions shall be made for Standard 2.4.2: • For protected areas classified by the International Union for the Conservation of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes or for sustainable resource management). • For HCVAs if the farm can demonstrate that it is environmental impacts are compatible with the conservation objectives of the HCVA designation. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been identified as a HCVA. • For farms located in a protected area if it was designated as such after the farm was already in operation and provided the farm can demonstrate that it is environmental impacts are compatible with the conservation objectives of the protected area and it is in compliance with any relevant conditions or regulations placed on the farm as a result of the formation/designation of the protected area. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been protected.					
		Criterion 2.5 Interaction with v Compliance Criteria (Required Client Actions):	vildlife, including predators [23] Auditor Evaluation (Required CAB Actions):			
Footnote			arency requirements for 2.5.2, 2.5.5 and 2.5.6.			



2.5.1	devices (AHDs) were used	a. Compile documentary evidence to show that no ADDs or AHDs have been used by the farm.	No use of ADDs or AHDs. Statement regarding non use of ADDs devices, dt. 09.05.18	Compliant		0	
	Аррисавинту: Аш	-	Verfified during audit				
		a. Prepare a list of all predator control devices and their locations.	Birdnets located above the net cages are only predator control devices used.				
	Indicator: Number of mortalities [25] of endangered or	b. Maintain a record of all predator incidents.	No marine mammals involved. No bird entanglement incidents in bird net.				
2.5.2	red-listed [26] marine mammals or birds on the farm	c. Maintain a record of all mortalities of marine mammals and birds on the farm identifying the species, date, and apparent cause of death.	Records verified on site	Compliant		0	
	Applicability: All	d. Maintain an up-to-date list of endangered or red-listed marine mammals and birds in the area (see 2.4.1)	Red list of endangered or red-listed marine mammals and birds in the area from "Norsk Rødliste for arter-2015" - fra Artsdatabanken".				
		-	List of mortalities does not include name of species				
Footnote		[25] Mortalities: Includes animals intentionally killed through lethal action as well as accidental deaths through entanglement or other means.					
Footnote		[26] Species listed as endangered or critically en	dangered by the IUCN or on a national endangered species list.	I		I	
	Indicator: Evidence that the following steps were taken prior to lethal action [27] against a predator: 1. All other avenues were pursued prior to using lethal	a. Provide a list of all lethal actions that the farm took against predators during the previous 12-month period. Note: "lethal action" is an action taken to deliberately kill an animal, including marine mammals and birds.	No lethal actions taken at farm				
2.5.3	action 2. Approval was given from a senior manager above the farm manager 3. Explicit permission was granted to take lethal action against the specific animal from the relevant regulatory authority Requirement: Yes [28]	b. For each lethal action identified in 2.5.4a, keep record of the following: 1) a rationale showing how the farm pursued all other reasonable avenues prior to using lethal action; 2) approval from a senior manager above the farm manager of the lethal action; 3) where applicable, explicit permission was granted by the relevant regulatory authority to take lethal action against the animal.	No lethal actions taken at farm	N/A	No lethal actions taken at farm.		
	Applicability: All except cases where human safety is	c. Provide documentary evidence that steps 1-3 above (in 2.5.4b) were taken prior to killing the animal. If human safety was endangered and urgent action necessary, provide documentary evidence as outlined in [28].	No lethal actions taken at farm				
Footnote		[27] Lethal action: Action taken to deliber	ately kill an animal, including marine mammals and birds.				
Footnote	[27] Lethal action: Action taken to deliberately kill an animal, including marine mammals and birds. [28] Exception to these conditions may be made for a rare situation where human safety is endangered. Should this be required, post-incident approval from a senior manager should be made and relevant authorities must be informed.						



Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clarification about the ASC Definition of "Lethal Incident"

The ASC Salmon Standard has defined "Lethal incident" to include all lethal actions as well as entanglements or other accidental mortalities of non-salmonids [footnote 29]. For the purpose of assisting farms and auditors with understanding how to evaluate compliance with Indicators 2.5.4, 2.5.5, and 2.5.6, ASC has clarified this definition further:

Total number of lethal Incidents = sum of all non-salmonid deaths arising from all lethal actions taken by the farm during a given time period

There should be a 1:1 relationship between the number of animal deaths and the number of lethal incidents reported by the farm. For example, if a farm has taken one (1) lethal action in past last two years and that single lethal action resulted in killing three (3) birds, it is considered three (3) lethal incidents within a two year period.

The term "non-salmonid" was intended to cover any predatory animals which are likely to try to feed upon farmed salmon. In practice these animals will usually be seals or birds.

	Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29]	a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.	List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq- norway/baerekraft/asc-rapportering/ showing 3 lethal incidents has occured from 01.01.2017 -d.d. (will be published within 30 days if actual).		
2.5.4		a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.	List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq- norway/baerekraft/asc-rapportering/ showing 3 lethal incidents has occured from 01.01.2017 -d.d. (will be published within 30 days if actual).	Compliant	
	Applicability: All	b. Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available (e.g. on a website).	List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/ showing 3 lethal incidents has occured from 01.01.2017 -d.d. (will be published within 30 days if actual).		
Footnote		[29] Posting results on a public website is an example of "easily publicly available." Shal	l be made available within 30 days of the incident and see Appendix VI for transparency require	ements.	
		a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, > 6	List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq- norway/baerekraft/asc-rapportering/ showing 3 lethal incidents has occured from 01.01.2017 -d.d.		
2.5.5	Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years Requirement: < 9 lethal incidents [31], with no more	 Calculate the total number of lethal incidents and the number of incidents involving marine mammals during the previous two year period. 	3 lethal incidents (3 seagulls) in periode 23.03.2018 to 19.05.2018	Compliant	3
	than two of the incidents being marine mammals Applicability: All	c. Send ASC the farm's data for all lethal incidents [30] of any species other than the salmon being farmed (e.g. lethal incidents involving predators such as birds or marine mammals). Data must be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).	Submitted to ASC in email dt.22.05.18		
Footnote		[30] Lethal incident: Includes all lethal actions as well	as entanglements or other accidental mortalities of non-salmonids.		
Footnote		[31] Standard 2.5.6 applicable to incidents related to non-endangered a	and non-red-listed species. This standard complements, and does not contradict, 2.5.3.		
2.5.6	Indicator: In the event of a lethal incident, evidence that an assessment of the risk of lethal incident(s) has been undertaken and demonstration of concrete steps taken by the farm to reduce the risk of future incidences	 a. Keep records showing that the farm undertakes an assessment of risk following each lethal incident and how those risk assessments are used to identify concrete steps the farm takes to reduce the risk of future incidents. 	Risk assessment for Storholmen/Olderfjord "Ytre miljø- utlsipp", dt. 15.04.2018	Compliant	
	Requirement: Yes Applicability: All	b. Provide documentary evidence that the farm implements those steps identified in 2.5.6a to reduce the risk of future lethal incidents.	Risk assessment for Storholmen/Olderfjord "Ytre miljø- utlsipp", dt. 15.04.2018		
	I control of the second of the	PRINCIPLE 3: PROTECT THE HEALTH AND (I GENETIC INTEGRITY OF WILD POPULATIONS		



			ed parasites and pathogens [34, 35]	
Footnote		Compliance Criteria (Required Client Actions): [32] Farm sites for which there is no release of water that may contain pathogens into	Auditor Evaluation (Required CAB Actions): the natural (freshwater or marine) environment are exempt from the standards under Criterio	I on 3.1.
Footnote			y requirements for 3.1.1, 3.1.3, 3.1.4, 3.1.6 and 3.1.7.	
According to exemption f 1) the farm o 2) any efflue	from Criterion 3.1 if it can be shown that either of the follow does not release any water to the natural environment; or	en effectively treated to kill pathogens (e.g. UV and/or chemical treatment of water with testing		
		a. Keep record of farm's participation in an ABM scheme.	ABM a requirement in national legislation. Records and overview over ABM and ref to "Samordnet plan for kontroll og bekjempelse av lakselus 2017-2018" dt. 04.10.17 in zones defined by NFSA and companys in ABM. ABM for Finmark 100 % of seafarms in area participaiting in the ABM (Cermaq, Grieg Seafood, Salmar, NRS, Lerøy Aurora). ABM leaded by veterinary service Åkerblå, Ragnhild Aukan Weekly updates to Altinn, where info is available for all farms in zone. Also regular meetings between participants where ABM issues are discussed 100% of farms included. Routines and procedures for notification included in ABM related to treatments and diseases according to legislation from NFSA. Record from meeting in the ABM, Lusegruppe Finnmark, d.t 16.05.2018, area map with area 4 (Vargundet, including sites Jernelva, Komagnes, Olderfjord and Storholmen), d.t 19.04.2017	
3.1.1	Indicator: Participation in an Area-Based Management (ABM) scheme for managing disease and resistance to treatments that includes coordination of stocking, fallowing, therapeutic treatments and information-sharing. Detailed requirements are in Appendix II-1. Requirement: Yes Applicability: All except farms that release no water as noted in [32]	b. Submit to the CAB a description of how the ABM (3.1.1a) coordinates management of disease and resistance to treatments, including: - coordination of stocking; - fallowing; - therapeutic treatments; and - information sharing.	ABM a requirement in national legislation. Records and overview over ABM and ref to "Samordnet plan for kontroll og bekjempelse av lakselus 2017-2018" dt. 04.10.17 in zones defined by NFSA and companys in ABM. ABM for Finmark 100 % of seafarms in area participaiting in the ABM (Cermaq, Grieg Seafood, Salmar, NRS, Lerøy Aurora). ABM leaded by veterinary service Åkerblå, Ragnhild Aukan Weekly updates to Altinn, where info is available for all farms in zone. Also regular meetings between participants where ABM issues are discussed 100% of farms included. Routines and procedures for notification included in ABM related to treatments and diseases according to legislation from NFSA. Record from meeting in the ABM, Lusegruppe Finnmark, d.t 16.05.2018, area map with area 4 (Vargundet, including sites Jernelva, Komagnes, Olderfjord and Storholmen), d.t 19.04.2017 Approved operating plan for 2018 from Directorate of Fisheries (DOF) dt. 19.03.18, including timelimits for fallowperiods	Compliant
		c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate the ABM's compliance with all requirements in Appendix II-1, including definition of area, minimum % participation in the scheme, components, and coordination requirements.	ABM a requirement in national legislation. Records and overview over ABM and ref to "Samordnet plan for kontroll og bekjempelse av lakselus 2017-2018" dt. 04.10.17 in zones defined by NFSA and companys in ABM. ABM for Finmark 100 % of seafarms in area participaiting in the ABM (Cermaq, Grieg Seafood, Salmar, NRS, Lerøy Aurora). ABM leaded by veterinary service Åkerblå, Ragnhild Aukan Weekly updates to Altinn, where info is available for all farms in zone. Also regular meetings between participants where ABM issues are discussed 100% of farms included. Routines and procedures for notification included in ABM related to treatments and diseases according to legislation from NFSA. Record from meeting in the ABM, Lusegruppe Finnmark, d.t 16.05.2018, area map with area 4 (Vargundet, including sites Jernelva, Komagnes, Olderfjord and Storholmen), d.t 19.04.2017	



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		d. Submit dates of fallowing period(s) as per Appendix VI to ASC at least once per year.	Submitted to ASC in email dt.22.05.2018		
		Note: Indicator 3.1.2 requires that farms demonstrate a commitment to collaborate with NGO impacts on wild stocks. If the farm does not receive any requests to collaborate on such reseat through other proactive means such as published policy statements or directed outreach to re	ch projects, the farm may demonstrate compliance by showing evidence of commitment		
3.1.2	Indicator: A demonstrated commitment [34] to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks Requirement: Yes Applicability: All except farms that release no water as noted in [32]	a. Retain records to show how the farm and/or its operating company has communicated with external groups (NGOs, academics, governments) to agree on and collaborate towards areas of research to measure impacts on wild stocks, including records of requests for research support and collaboration and responses to those requests.	Commitment and participation of Cermaq Norway AS is documented n several projects with NGOs, academics and governments: 1. Varpa project - Ruseprosjektet 2016, with Norwegian Authorites, active 2018 (Nordland) 3. GSI member, active 2018 4. ASRC project with Ewos Inovation, feed for arctic conditions, 4 R&D licences 5. "Skjellprøveprosjektet". Repafjordelva og Altaelva, active 2018, together with local stakeholders (Jeger og Fisk, ALI og VFJF) 6. Monitoringprogram with NINA, ALI and VFJF, active 2018 7. Kompetanseklynge laks (Knowledge-cluster Salmon), leading by a commites where Cermaq is included, active 2018. Including several subprojects, year to year perspective 9. HI, NIVA and Hammerfest Kommune, kunstig rev/tareskog, creating a godd environment for cod stock (conditions for cod spawning in Hammerfest community), active 2018, description form 2016, project owner Hammerfest community, ongoing to 2020 10. ClimeFish (2017), contribute with data and input from production, EU project 677039, NOFIMA, UiT, University of Stirling, AVS, how climate changes affect aquaculture, ongoing to 2020.	Compliant	
		b. Provide non-financial support to research activities in 3.1.2a by either: - providing researchers with access to farm-level data; - granting researchers direct access to farm sites; or - facilitating research activities in some equivalent way.	Some of the projects described in 3.1.2 includes non-financial support.		
		c. When the farm and/or its operating company denies a request to collaborate on a research project, ensure that there is a written justification for rejecting the proposal.	Evaluated by technical team. Denied projects not known by staff in audit.		
		d. Maintain records from research collaborations (e.g. communications with researchers) to show that the farm has supported the research activities identified in 3.1.2a.	E.g. documents available in projectreport NINA nr. 1307 "Monitoring Altaelva og Repparfjordelva 2016". e.g. communication and electronic project folders e.g. projectmail for AquaDom to NOFIMA dt.11.11.14 and aggrements as described in 3.1.2.a		
Footnote	[34] Commitment: At a n	ninimum, a farm and/or its operating company must demonstrate this commitment through pro	viding farm-level data to researchers, granting researchers access to sites, or other similar non	-financial suppo	ort for research activities.
3.1.3	Indicator: Establishment and annual review of a maximum sea lice load for the entire ABM and for the individual farm as outlined in Appendix II-2	a. Keep records to show that a maximum sea lice load has been set for: - the entire ABM; and - the individual farm.	NFSA (Mattilsynet) set limits and govermental treatment regime for ABM, reported via AltInn. In "Lusedata.no" with lice levels, treatment etc. published in the public web-site www.barentswatch.no Also internal procedures in Intelex Quality System, system to prevent maximum sea lice load. Procedure "Prosedyre for samordnet kontroll og bekjempelse av lakselus" ID 394, dated 04.04.17. Procedure "Rapportering av Lakselus" ID 348, dated 19.06.16. Procedure "Prosdyre for luetelling" ID 321 dated 03.03.17 Registered on farm in FishTalk. Records confirm compliance.	Compliant	



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	Applicability: All except farms that release no water as noted in [32]	b. Maintain evidence that the established maximum sea lice load (3.1.3a) is reviewed annually as outlined in Appendix II-2, incorporating feedback from the monitoring of wild salmon where applicable (See 3.1.6).	Sea lice counted weekly and recorded in FishTalk, and reported to Åkerblå and authorities "Altinn" weekly. Seen report and record in BarentsWatch for site Olderfjord - no week above limits on the current production cycle		
		c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate whether the ABM has set (3.1.3a) and annually reviewed (3.1.3.b) maximum sea lice load in compliance with requirements in Appendix II-2.	Sea lice counted weekly and recorded in FishTalk, and reported to Åkerblå and authorities "Altinn" weekly. Seen report and record in BarentsWatch for site Olderfjord - no week above limits on the current production cycle		
		d. Submit the maximum sea lice load for the ABM to ASC as per Appendix VI at least once per year.	Submitted to ASC in email dt.22.05.2018		
		a. Prepare an annual schedule for testing sea lice that identifies timeframes of routine testing frequency (at a minimum, monthly) and for high-frequency testing (weekly) due to sensitive periods for wild salmonids (e.g. during and immediately prior to outmigration of juveniles).	There are legal limits for maximum sea lice load for the entire ABM and the individual farm. Maximum 0,5 mature female sea lice all year, except in sensitive period (week 21 to week 26) were the action limit is 0,2 mature female lice and moving lice based on the legal authorities regulations for lice control Procedure ""Prosedyre for samordnet kontroll og bekjempelse av lakselus" shows regularity of lice count, how to count and maximum sea lice load. Sea lice counted weekly and recorded in FishTalk, and reported to Åkerblå and authorities "Altinn" weekly. Seen report and record in BarentsWatch for site Olderfjord - no week above limits on the current production cycle		
	Indicator: Frequent [35] on-farm testing for sea lice, with test results made easily publicly available [36] within	b. Maintain records of results of on-farm testing for sea lice. If farm deviates from schedule due to weather [35] maintain documentation of event and rationale.	Sea lice counted weekly and recorded in FishTalk, and reported to Labora and authorities "Altinn" weekly. Seen report and record in BarentsWatch for site Olderfjord - no week above limits on the current production cycle		
3.1.4	seven days of testing	c. Document the methodology used for testing sea lice ('testing' includes both counting and identifying sea lice). The method must follow national or international norms, follows accepted minimum sample size, use random sampling, and record the species and life-stage of the sea lice. If farm uses a closed production system and would like to use an alternate method (i.e. video), farm shall provide the CAB with details on the method and efficacy of the method.	Procedure ""Prosedyre for samordnet kontroll og bekjempelse av lakselus" shows regularity of lice count, how to count and maximum sea lice load. Training in lice identification and counting, dated 14.03.2018	Compliant	
		d. Make the testing results from 3.1.4b easily publicly available (e.g. posted to the company's website) within seven days of testing. If requested, provide stakeholders access to hardcopies of test results.	Result of sea lice count made public in "Lusenettverket", website BarentsWatch.no, company website (https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/)		
		e. Keep records of when and where test results were made public.	Result of sea lice count made public in "Lusenettverket", website BarentsWatch.no, company website (https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/)		
		f. Submit test results to ASC (Appendix VI) at least once per year.	Submitted to ASC in email dt.22.05.2018		
Footnote	[35] Testing must be weekly during and immediately price	r to sensitive periods for wild salmonids, such as outmigration of wild juvenile salmon. Testing i Within closed production systems, alternative meth	nust be at least monthly during the rest of the year, unless water temperature is so cold that it ods for monitoring sea lice, such as video monitoring, may be used.	would jeopardi	ize farmed fish health to test for lice (below 4 degrees C).
Footnote		[36] Posting results on a public we	ebsite is an example of "easily publicly available."		



	1	T		1		
	Indicator: In areas with wild salmonids [37], evidence of data [38] and the farm's understanding of that data, around salmonid migration routes, migration timing and stock productivity in major waterways within 50 kilometers of the farm	themselves. However farms must demonstrate that they are aware of this basic information in minimizing potential impact on those wild stocks. This Indicator requires collection and understanding of general data for the major watersheds data for every small river or tributary or subpopulation. Information should relate to the wild the same species and hence self-sustaining. A "conservation unit" under the Canadian Wild Screcognized that each jurisdiction may have slight differences in how a wild salmonid stock is dienompass all, or nearly all, of salmon-growing areas in the northern hemisphere [39]. Potenti species is not natural to a region (e.g. Atlantic or Pacific Salmon in Chile) the areas are not conestablished themselves as a reproducing species in "the wild".	or from research institutions. Therefore farms are not responsible for conducting this research their region, as such information is needed to make management decisions related to within approximately 50 km of the farm. A farm does not need to demonstrate that there is fish stock level, which implies that the population is more or less isolated from other stocks of almon Policy is an example of an appropriate fish stock-level definition. However, it must be efined in the region. Illometers of a wild salmonid migration route or habitat. This definition is expected to isolally affected species in these areas are salmonids (i.e. including all trout species). Where a sidered as "areas with wild salmonids" even if salmon have escaped from farms and cks under this standard if general information is already available. Farms must demonstrate an , as such information is needed to make management decisions related to minimizing			
3.1.5	Requirement: Yes Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in	a. Identify all salmonid species that naturally occur within 75 km of the farm through literature search or by consulting with a reputable authority. If the farm is not in an area with wild salmonids, then 3.1.5b and c do not apply.				
	[32]	b. For species listed in 3.1.5a, compile best available information on migration routes, migration timing (range of months for juvenile outmigration and returning salmon), life history timing for coastal resident salmonids, and stock productivity over time in major waterways within 50 km of the farm.	Migratory routes as defined in web site "environmental statistics" (miljøstatatus.no) on salmonid carrying rivers, and Lakseregisteret from Miljødirektoratet. Also map from DN with rivers identified. Report "Risikorapport norsk fiskeoppdrett 2017" by Institute of Marine Research, published on their website. Report "Smolt - en kunnskapsoppdatering" by Directorate of Environment 2014.	Compliant		
		c. From data in 3.1.5b, identify any sensitive periods for wild salmonids (e.g. periods of outmigration of juveniles) within 50 km of the farm.	Sensitive period defined in regulation "Forskrift om endring i forskrift om bekjempelse av lakselus", states less than 0,2 adult female lice per fish from week 21 to week 26.			
		-	Sufficient awarness and also participation in related scientific projects by Cermaq staff			
Footnote	[37] For purposes of these sta	ndards, "areas with wild salmonids" are defined as areas within 75 kilometers of a wild salmoni	d migration route or habitat. This definition is expected to encompass all, or nearly all, of salmo	n-growing area	s in the northern hemisphere.	
Footnote	[38] Farms do not need to conduct research on migration	routes, timing and the health of wild stocks under this standard if general information is alread make management decisions relate	y available. Farms must demonstrate an understanding of this information at the general level fed to minimizing potential impact on those stocks.	or salmonid po	pulations in their region, as such information is	needed to
		a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.6 does not apply.	Atlantic salmon (Salmo salar) and trout (Salmo trutta) is naturally occurring in the area.			
	Indicator: In areas of wild salmonids, monitoring of sea	b. Keep records to show the farm participates in monitoring of sea lice on wild salmonids.	Private initiatives interfering with wild stock is prohibited by law. Govermental monitoring and reporting			
3.1.6	Requirement: Yes	c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate whether the methodology used for monitoring of sea lice on wild salmonids is in compliance with the requirements in Appendix III-1.	Havforskingsinstituttet report 2018 Risk Assessment for Norway, fish farming report 2018, where sealice issues are covered.IMR report on wild stock sealice sitaution "Smolt - kunnskapsoppsummering" M1-36-2017,. and "Risikovurdering av Norsk Fiskeoppdrett IMR/vet Institute report on measuring environmental effects on wild salmon".	Compliant		
		d. Make the results from 3.1.6b easily publicly available (e.g. posted to the company's website) within eight weeks of completion of monitoring.	Reports public available at www.imr.no and www.miljødirektoratet.no			



		e. Submit to ASC the results from monitoring of sea lice levels on wild salmonids as per Appendix VI.	Private initiatives interfering with wild stock is prohibited by law. Public reports regarding this issue is easily publicly available.			
		a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.7 does not apply.	Atlantic salmon (Salmo salar) and trout (Salmo trutta) is naturally occurring in the area.			
	Indicator: In areas of wild salmonids, maximum on-farm lice levels during sensitive periods for wild fish [39]. See detailed requirements in Appendix II, subsection 2.	b. Establish the sensitive periods [39] of wild salmonids in the area where the farm operates. Sensitive periods for migrating salmonids is during juvenile outmigration and approximately one month before.	Sensitive periods in area for wild salmon migtration considered and defined to week 21 to week 26			
3.1.7	Requirement: 0.1 mature female lice per farmed fish Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	c. Maintain detailed records of monitoring on-farm lice levels (see 3.1.4) during sensitive periods as per Appendix II-2.	Sea lice counted weekly and recorded in FishTalk, and reported to Åkerblå and authorities "Altinn" weekly. Seen report and record in BarentsWatch for site Olderfjord - no week above limits on the current production cycle and in the sensitive periode in 2017	Compliant		0
	[55]	d. Provide the CAB with evidence there is a 'feedback loop' between the targets for on-farm lice levels and the results of monitoring of lice levels on wild salmonids (Appendix II-2).	Private initiatives interfering with wild stock is prohibited by law, monitoring of sea lice on wild salmonids administrated by IMR. Direct feedback loop hence impossible to obtain.			
Footnote		[39] Sensitive periods for migrating salmonids is d	uring juvenile outmigration and approximately one month before.			
			ion of non-native species			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
		a. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.1 does not apply.	Atlantic salmon (Salmo salar) is native in the area.			
			Atlantic salmon (Salmo salar) is native in the area.			
	Indicator: If a non-native species is being produced, demonstration that the species was widely commercially produced in the area by the date of publication of the	b. Provide documentary evidence that the non-native species was widely commercially produced in the area before June 13, 2012.	Atlantic salmon (Salmo salar) is native in the area.			
3.2.1	ASC Salmon standard Requirement: Yes [40] Applicability: All farms except as noted in [40]	c. If the farm cannot provide evidence for 3.2.1b, provide documentary evidence that the farm uses only 100% sterile fish that includes details on accuracy of sterility effectiveness.	Atlantic salmon (Salmo salar) is native in the area.	N/A	Salmo salar native to region.	
	represents. An orange except as noted in [40]	d. If the farm cannot provide evidence for 3.2.1b or 3.2.1c, provide documented evidence that the production system is closed to the natural environment and for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce [40]; and 3) barriers ensure there are no escapes of biological material [40] that might survive and subsequently reproduce (e.g. UV or other effective treatment of any effluent water exiting the system to the natural environment).	Atlantic salmon (Salmo salar) is native in the area.	·		
			Atlantic salmon (Salmo salar) is native in the area.			
Footnote	[40] Exceptions shall be made for production systems tha	I t use 100 percent sterile fish or systems that demonstrate separation from the wild by effective	I ephysical barriers that are in place and well-maintained to ensure no escapes of reared specime	ns or biological	material that might survive and subsequently	/ reproduc



3.2.2	Indicator: If a non-native species is being produced, evidence of scientific research [41] completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction and these results submitted to ASC for review [42] Requirement: Yes Applicability: All [43]	Instruction to Clients for Indicator 3.2.2 - Exceptions to Allow Production of Non-Native Spec Farms have had five years to demonstrate compliance with this standard from the time of pub Farms are exempt from this standard if they are in a jurisdiction where the non-native species are met: eradication would be impossible or have detrimental environmental effects; the intro ratified); the species is fully self-sustaining. Note: For the purposes of Indicator 3.2.2, "jurisdiction" is defined the same as "area" in 3.2.1. a. Inform the ASC of the species in production (Appendix VI). b. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.2 does not apply. c. If yes to 3.2.2b, provide evidence of scientific research completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction. Alternatively, the farm may request an exemption to 3.2.2c (see below).	lication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017). became established prior to farming activities in the area and the following three conditions duction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was	N/A	Salmo salar native to region.	
		d. If applicable, submit to the CAB a request for exemption that shows how the farm meets all three conditions specified in instruction box above.	Atlantic salmon (Salmo salar) is native in the area.			
		e. Submit evidence from 3.2.2c to ASC for review.	Atlantic salmon (Salmo salar) is native in the area.			
Footnote		[41] The research must at a minimum include multi-year monitoring for non-	native farmed species, use credible methodologies and analysis, and undergo peer review.			
Footnote		jurisdiction where the non-native species became established prior to farming activities in the	ture revision of the standard and those results taken forward into the revision process.			
		a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice.	No cleaner fish used at the audit time			
	Indicator: Use of non-native species for sea lice control for on-farm management purposes	b. Maintain records (e.g. invoices) to show the species name and origin of all fish used by the farm for purposes of sea lice control.	No cleaner fish used at the audit time			
3.2.3	Requirement: None Applicability: All	c. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region.	No cleaner fish used at the audit time	N/A	No cleaner fish	
			on of transgenic species			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			1
	Indicator: Use of transgenic [44] salmon by the farm	a. Prepare a declaration stating that the farm does not use transgenic salmon.	Statement dt. 23.03.2017, from genetics provider AquaGen breeding stock, stating that only conventional breeding and genetics are applied. Cermaq policies on non-GMO available in statement dated 12.02.2018, signed by Quality Manager			
3.3.1	Requirement: None	b. Maintain records for the origin of all cultured stocks including the supplier name, address and contact person(s) for stock purchases.	Statement dt. 23.03.2017, from genetics provider AquaGen breeding stock, stating that only conventional breeding and genetics are applied.	Compliant		
	Applicability: All	c. Ensure purchase documents confirm that the culture stock is not transgenic.	Statement dt. 23.03.2017, from genetics provider AquaGen breeding stock, stating that only conventional breeding and genetics are applied. Information for salmon group available in invoices and fish/ova CV from ova/fry producer.			



France	[44] Transgenic: Containing genes altered by insertion of					
Footnote	DNA from an unrelated organism. Taking genes from one species and inserting them into another species to get					
	Topecies and inserting them into another species to get		4 Escapes [47]			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[45] See Appendix VI for transp	parency requirements for 3.4.1, 3.4.2 and 3.4.3.			
		a. Maintain monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.	No escapes registered. Documented in production and recording system Fishtalk. Environmental company/site reports for 2017 states 0 escapes. Documented by report from company and register at Directorate of Fisheries (DOF) (www.fiskeridir.no).Cross-checked and verified with the estimate of unexplained loss.			
	Indicator: Maximum number of escapees [46] in the most recent production cycle	b. Aggregate cumulative escapes in the most recent production cycle.	No escapes registered. Documented in production and recording system Fishtalk. Environmental company/site reports for 2017 states 0 escapes. Documented by report from company and register at Directorate of Fisheries (DOF) (www.fiskeridir.no).Cross-checked and verified with the estimate of unexplained loss.			
3.4.1	Requirement: 300 [47] Applicability: All farms except as noted in [47]	c. Maintain the monitoring records described in 3.4.1a for at least 10 years beginning with the production cycle for which farm is first applying for certification (necessary for farms to be eligible to apply for the exception noted in [47]).	No escapes registered. Documented in production and recording system Fishtalk. Environmental company/site reports for 2017 states 0 escapes. Documented by report from company and register at Directorate of Fisheries (DOF) Documents are and will be available for at least 10 years.	Compliant		0
		d. If an escape episode occurs (i.e. an incident where > 300 fish escaped), the farm may request a rare exception to the Standard [47]. Requests must provide a full account of the episode and must document how the farm could not have predicted the events that caused the escape episode.	No escapes registered. Documented in production and recording system Fishtalk. Environmental company/site reports for 2017 states 0 escapes. Documented by report from company and register at Directorate of Fisheries (DOF).			
		e. Submit escape monitoring dataset to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	Submitted to ASC in email dt.22.05.18			
Footnote	[46] Farms shall report a	Il escapes; the total aggregate number of escapees per production cycle must be less than 300 f	ish. Data on date of escape episode(s), number of fish escaped and cause of escape episode sh	all be reported a	as outlined in Appendix VI.	•
Footnote	[47] A rare exception to this standard may be made for a	on escape event that is clearly documented as being outside the farm's control. Only one such e is applying for certification. The farmer must demonstrate that there was no reason	exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year particle way to predict the events that caused the episode. See auditing guidance for additional deaths.	•	t the beginning of the production cycle for whi	ich the fa
		Maintain records of accuracy of the counting technology used by the farm at times of stocking and harvest. Records include copies of spec sheets for counting machines and common estimates of error for hand-counts.	Counting performed at FW site, vaccination numbers used for stocking number at sea net cage, manually or Wing Tech Fishcounter 777 Smolt and WingTech Fishcounter 1200/2000 finale check at stocking with well boat. Final accurate numbers at harvest plant where individual fish is handled and registered. Statement from Wing Tech of 98-100% accuracy. Statement from AquaScan CF4000 of 98-100% accuracy.			
	Indicator: Accuracy [48] of the counting technology or counting method used for calculating stocking and	b. If counting takes place off site (e.g. pre-smolt vaccination count), obtain and maintain documents from the supplier showing the accuracy of the counting method used (as above).	Vaccination numbers in FW used as accurate number stocked. External smolt provider AquaScan CF4000 , statement of 98-100% accuracy. Wing Tech Fishcounter 777. Smolt and WingTech Fishcounter 1200/2000. Statement from Wing Tech of 98-100% accuracy.			



3.4.2	harvest numbers Requirement: ≥ 98% Applicability: All	c. During audits, arrange for the auditor to witness calibration of counting machines (if used by the farm).	Counting not performed at site Vaccination numbers in FW used as accurate number stocked. External smolt provider AquaScan CF4000 , statement of 98-100% accuracy. Wing Tech Fishcounter 777. Smolt and WingTech Fishcounter 1200/2000. Statement from Wing Tech of 98-100% accuracy.	Compliant		≥98%
		e. Submit counting technology accuracy to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	Submitted to ASC in email dt.22.05.18			
Footnote		[48] Accuracy shall be determined by the spec sheet for coun	ting machines and through common estimates of error for any hand-counts.	L		
3.4.3	Indicator: Estimated unexplained loss [49] of farmed salmon is made publicly available Requirement: Yes Applicability: All	Instruction to Clients for Indicator 3.4.3 - Calculation of Estimated Unexplained Loss The Estimated Unexplained Loss (EUL) of fish is calculated at the end of each production cycle EUL = (stocking count) - (harvest count) - (mortalities) - (recorded escapes) Units for input variables are number of fish (i.e. counts) per production cycle. Where possible, adapted from footnote 59 of the ASC Salmon Standard.				
		a. Maintain detailed records for mortalities, stocking count, harvest count, and escapes (as per 3.4.1).	Spesific site reports and records documented and available in production and recording system Fishtalk			
		b. Calculate the estimated unexplained loss as described in the instructions (above) for the most recent full production cycle. For first audit, farm must demonstrate understanding of calculation and the requirement to disclose EUL after harvest of the current cycle.	2015G: +1,6% EUL Present cycle 2017G is not closed (harevsted numbers used for closing)			
		c. Make the results from 3.4.3b available publicly. Keep records of when and where results were made public (e.g. date posted to a company website) for all production cycles.	System implemented to make EUL value information easily publicaly available on corporate webpage www.cermaq.com	Compliant		
		d. Submit estimated unexplained loss to ASC as per Appendix VI for each production cycle.	Submitted to ASC in email dt.22.05.18			
		-				
Footnote	[49] Calculated at the end of the production cycle as: Unexplained loss = Stocking count – harvest count – mortalities – other known escapes. Where possible, use of the pre-smolt vaccination count as the stocking count is preferred.					



3.4.4	Indicator: Evidence of escape prevention planning and related employee training, including: net strength testing; appropriate net mesh size; net traceability; system robustness; predator management; record keeping and reporting of risk events (e.g., holts; infrastructure issues, handling errors, reporting and follow up of escape events); and worker training on escape prevention and counting technologies Requirement: Yes Applicability: All	a. Prepare an Escape Prevention Plan and submit it to the CAB before the first audit. This plan may be part of a more comprehensive farm planning document as long as it addresses all required elements of Indicator 3.4.4.	Risk assessments and several procedures describes actions to prevent escape (inspection, maintenance, etc.), e.g.: Risk assessment for escapes, d.t 05.04.18, including relevant issues related to potensial causes to escapes, e.g procedure "Prosedyre for avisning av not og mære" ID 170, d.t 27.07.2017. "Prosedyre for periodiske ettersyn av anlegg, flåte, og båt - matfisk, ID 342, d.t 19.06.16 "Prosdyre for kontroll, ettersyn og renhold av not" ID 315, d.t 05.05.18	Minor	
		b. If the farm operates an open (net pen) system, ensure the plan (3.4.4a) covers the following areas: - net strength testing; - appropriate net mesh size; - net traceability; - system robustness; - predator management; - record keeping; - reporting risk events (e.g. holes, infrastructure issues, handling errors); - planning of staff training to cover all of the above areas; and - planning of staff training on escape prevention and counting technologies.	The Escape Prevention Plan and accompanying documents covers the following areas: - net strength testing; - appropriate net mesh size; - net traceability; - system robustness; - predator management; - record keeping; - planning of staff training to cover all of the above areas; - planning of staff training on escape prevention and counting technologies. Not seen inspection report for moorings the last 6 months Diving inspection all nets (routine inspections related to procedure), d.t 12.02.18, all nets, KB-dykk. E.g net no 2 and 3, no NC, net ok, documentation ok. Nets registered in "INFOR EAM." with certificates and services available for nets used at site. All structures NYTEK certified Norwegian standard NS9415. (Certificate APN-284 by Akvaplan Niva expiry date 04.07.2022)		The documentation from 6 months inspections of moorings is missing in the maintenance system Accepted - 19.06.18 THOVB: Root cause, corrective and preventive actions accepted
		c. If the farm operates a closed system, ensure the plan (3.4.4a) covers the following areas: - system robustness; - predator management; - record keeping; - reporting risk events (e.g. holes, infrastructure issues, handling errors); - planning of staff training to cover all of the above areas; and - planning of staff training on escape prevention and counting technologies.	Open system		
		d. Maintain records as specified in the plan.	Procedures established and implemented. Records in site logs on routine checks and training activities in competency matrix. Production parameters recorded in Fishtalk. "INFOR EAM / SERVICEWEB" and "Mørenot LOG" for records and documentation of nets, e.g cage 03, net no 4210, produced by Hvalpsund Net, valid to 15.12.2018 All structures NYTEK certified Norwegian standard NS9415 (Certificate APN-284 by Akvaplan Niva expiry date 04.07.2022)		
		e. Train staff on escape prevention planning as per the farm's plan.	Escape prevention training internal/external for sitemanagers and site employee. Annual revision of escape prevention plan, risk assessment and contingency plans. Test of escape prevention plan included in training in 2017 Seen training record for all employees dated 14.03.17, 15.03.17 and 16.03.17 Scheduled training in 2018 for new employees		



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DDINICIDI F 4	LIST DESCRIPCES IN AN ENVIRONMENTALLY FERICIENT AN	- In December 1 Manuals					
PRINCIPLE 4: USE RESOURCES IN AN ENVIRONMENTALLY EFFICIENT AND RESPONSIBLE MANNER Criterion 4.1 Traceability of raw materials in feed							
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
Instruction to Clients for Indicators 4.1.1 through 4.4.2 - Sourcing of Responsibly Produced Salmon Feeds Farms must show that all feeds used by the farm are produced in compliance with the requirements of Indicators 4.1.1 through 4.4.4. To do so, farms must obtain documentary evidence that the feed producers (see note 1) are audited at regular intervals by an independent auditing firm or a conformity assessment body against a recognized standard which substantially incorporate requirements for traceability. Acceptable certification schemes include GlobalGAP or other schemes that have been acknowledged by the ASC (see 4.1.1c below). Results from these audits shall demonstrate that feed producers have robust information systems and information handling processes to allow the feed producers to be able to bring forward accurate information about their production and supply chains. Declarations from the feed producer that are provided to the farm to demonstrate compliance with these indicators must be supported by the audits. Farms must also show that all of their feed producers are duly informed of the requirements of the ASC Salmon Standard relating to sourcing of responsibly produced salmon feed (see 4.1.1b below). In addition to the above, farms must also show that their feed suppliers comply with the more detailed requirements for traceability and ingredient sourcing that are specified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows farms to use one of two different methods to demonstrate compliance of feed producers: Method #1: Farms may choose to source feed from feed producers who used only those ingredients allowed under the ASC Salmon Standards during the production of a given batch of feed. For example, the farm may request its feed supplier to produce a							
batch of feed according to farm specifications. Audits of the feed producer will independently verify that manufacturing processes are in compliance with ASC requirements. Method #2: Farms may choose to source feed from feed producers who demonstrate compliance using a "mass-balance" method. In this method, feed producers show that the balance of all ingredients (both amount and type) used during a given feed production period meets ASC requirements. However, mixing of ingredients into the general silos and production lines is allowed during manufacturing. Audits of the feed producer will independently verify that manufacturing processes are in compliance with ASC requirements. The mass balance method can be applied, for example, to integrated feed production companies that handle all steps of feed manufacturing (purchasing of raw materials, processing to finished feed, and sales) under the management of a single legal entity. Note 1: The term "feed producer" is used here to identify the organization that produces the fish feed (i.e. it is the "feed manufacturer"). In most cases, the organization supplying feed to a farm (i.e. the feed supplier) will be the same organization that produced the feed, but there may be instances where feed suppliers are not directly responsible for feed production. Regardless of whether the farm sources feeds directly from a feed producer or indirectly through an intermediary organization, it remains the farm's obligation to show evidence that all feeds used are in compliance with requirements.							
	Indicator: Evidence of traceability, demonstrated by the feed producer, of feed ingredients that make up more than 1% of the feed [50]. Requirement: Yes Applicability: All	a. Maintain detailed records of all feed suppliers and purchases including contact information and purchase and delivery records.	Feed suppliers: EWOS (www.cargill.com): Records of purchase: 1 026 000 kg used, recorded in FishTalk for 17G for periode 20.05.17 - 31.01.18 BIOMAR (www.biomar.com): 452 615 kg from BioMar (January 2018 - 20.04.2018)				
		b. Inform each feed supplier in writing of ASC requirements pertaining to production of salmon feeds and send them a copy of the ASC Salmon Standard.	Feed suppliers informed of certifications of site and relevant ASC requirements in mail to EWOS dt.26.03.18 and to BioMar 26.03.18				
4.1.1		c. For each feed producer used by the farm, confirm that an audit of the producer was recently done by an audit firm or CAB against an ASC-acknowledged certification scheme. Obtain a copy of the most recent audit report for each feed producer.	EWOS: Audited by DNV GL GG CFM dt 16.06.17, Global G.A.P. CFM Version 2.1 Dec13. Certifcate GGN CoC 4050373825744 , valid to 24.04.18 BIOMAR: Audited by BV GG CFM dt 14.02.17, Global G.A.P. CFM Version 2.2 AUG16. Certifcate GGN CoC 4050373897437 , valid to 08.03.19	Compliant			
		d. For each feed producer, determine whether the farm will use method #1 or method #2 (see Instructions above) to show compliance of feed producers. Inform the CAB in writing.	Method #2 Massbalance				
		e. Obtain declaration from feed supplier(s) stating that the company can assure traceability of all feed ingredients that make up more than 1% of the feed to a level of detail required by the ASC Salmon Standard [50].	Statement from Cargill/EWOS on complete traceability dated 08.01.2018 Statement from Biomar on complete traceability dated 09.01.2018				
			Statement and certificate for feed supplier verified.				
Footnote	Footnote [50] Traceability shall be at a level of detail that permits the feed producer to demonstrate compliance with the standards in this document (i.e., marine raw ingredients must be traced back to the fishery, soy to the region grown, etc.). Feed manufacturers will need to supply the farm with third-party documentation the ingredients covered under this standard.						
Criterion 4.2 Use of wild fish for feed [51]							
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				



Footnote		[51] See Appendix VI for trai	sparency requirements for 4.2.1 and 4.2.2.			
		Instruction to Clients for Indicator 4.2.1 - Calculation of FFDRm arms must calculate the Fishmeal Forage Fish Dependency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintained sufficient information in order to make an accurate calculation of FFDRm as outlined below. For first audits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete production cycle (i.e. if the FFDRm of the most recent crop was > 1.2) if the farm can satisfactorily demonstrate to the auditor that: - the client understands how to accurately calculate FFDRm; - the client maintains all information needed to accurately calculate FFDRm (i.e. all feed specs for > 6 months) for the current production cycle; and - the client can show how feed used for the current production cycle will ensure that the farm will meet requirements at harvest (i.e. FFDRm < 1.2).				
	Indicator: Fishmeal Forage Fish Dependency Ratio (FFDRm) for grow-out (calculated using formulas in Appendix IV- 1) Requirement: < 1.2 Applicability: All	a. Maintain a detailed inventory of the feed used including: - Quantities used of each formulation (kg); - Percentage of fishmeal in each formulation used; - Source (fishery) of fishmeal in each formulation used; - Percentage of fishmeal in each formulation derived from trimmings; and - Supporting documentation and signed declaration from feed supplier.	Feed suppliers: EWOS (www.cargill.com): 1 026 000 kg used, recorded in FishTalk for 176 for periode 20.05.17 - 31.01.18. Statement from EWOS on complete traceability and raw material (marine and others) sources d.t. 08.01.2018. And detailed raw material (marine and others) sources and fraction in diets on site level. BIOMAR (www.biomar.com): 452 615 kg from BioMar (January 2018 - 20.04.2018) BIOMAR statement " Marine Ingredients used by BIOMAR Norway 2017" d.t 26.02.18 Correspondence verified including each species was used as a feed ingredient			
4.2.1		b. For FFDRm calculation, exclude fishmeal derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery.	EWOS 60,1 % of fishmeal from reduction fisheries and 39,9 % from trimmings and byproducts (listed species and stock status). 25,7 % fishmeal in feed BioMar 60% of fishmeal from reduction fisheries and 40% from trimmings and byproducts (listed species and stock status). 24,2 % fishmeal in feed.	Compliant		0,69 0,36
		c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1).	eFCR 2017G (cycle not finished yet, full cycle will be provided after harvest): 1,04			
		d. Calculate FFDRm using formulas in Appendix IV-1.	FFDRm 2017G (cycle not finished yet, full cycle will be provided after harvest): EWOS: 0,69 BIOMAR: 0,36			
		e. Submit FFDRm to ASC as per Appendix VI for each production cycle.	Submitted to ASC in email dt.22.05.18			
	_	Note: Under Indicator 4.2.2, farms can choose to calculate FFDRo (Option #1) or EPA & DHA (on shall inform the CAB which option they will use.	Option #2). Farms do not have to demonstrate that they meet both threshold values. Client			
	Indicator: Fish Oil Forage Fish Dependency Ratio (FFDRo) for grow-out (calculated using formulas in Appendix IV-	a. Maintain a detailed inventory of the feed used as specified in 4.2.1a.	Feed suppliers: EWOS (www.cargill.com): 1 026 000 kg used, recorded in FishTalk for 17G for periode 20.05.17 - 31.01.18. Statement from EWOS on complete traceability and raw material (marine and others) sources d.t. 08.01.2018. And detailed raw material (marine and others) sources and fraction in diets on site level. BIOMAR (www.biomar.com): 452 615 kg from BioMar (January 2018 - 20.04.2018) BIOMAR statement " Marine Ingredients used by BIOMAR Norway 2017" d.t 26.02.18 Correspondence verified including each species was used as a feed ingredient			



4.2.2	1), or, Maximum amount of EPA and DHA from direct marine sources [52] (calculated according to Appendix IV-2) Requirement: FFDRo < 2.52 or (EPA + DHA) < 30 g/kg feed Applicability: All	b. For FFDRo and EPA+DHA calculations (either option #1 or option #2), exclude fish oil derived from rendering of seafood by-products (e.g. the "trimmings" from a human	EWOS 74,3 % of fishoil from reduction fisheries and 25,7 % from trimmings and byproducts (listed species and stock status). 11,3 % fishoil in feed. BioMar 63 % of fishoil from reduction fisheries and 37 % from trimmings and byproducts (listed species and stock status). 8,9 % fishoil in feed.	Compliant		1,58 1,20	
		with the requirements of the Standard. d. For option #1, calculate FFDRo using formulas in Appendix IV-1 and using the eFCR calculated under 4.2.1c.	FFDRm 2017G (cycle not finished yet, full cycle will be provided after harvest): EWOS: 1,58 BIOMAR: 1,20	-			
		e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2.	Option #1				
		f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle.	Submitted to ASC in email dt.22.05.18				
Footnote	Fishmeal and fish oil that are produced from trimmings can be excluded from the calculation as long as the origin of the trimmings is not any species that are classified as critically endangered, endangered or vulnerable in the IUCN Red List of Threatened Species (http://www.iucnredlist.org).						
	Criterion 4.3 Source of marine raw materials						
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
4.3.1	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required		Auditor Evaluation (Required CAB Actions):	N/A			
4.3.1	feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries		Auditor Evaluation (Required CAB Actions):	N/A			
4.3.1 Footnote	feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A			,	n feed.		
	feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A	his standard and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheri		,	n feed.		



4.3.2	Indicator: Prior to achieving 4.3.1, the FishSource score [55] for the fishery(ies) from which all marine raw material in feed is derived Requirement: All individual scores ≥ 6, and biomass score ≥ 6 Applicability: All	a. Record FishSource score for each species from which fishmeal or fish oil was derived and used as a feed ingredient (all species listed in 4.2.1a).	Following statements include traceability: Statement EWOS, "Dokumentasjon og informasjon om för levert iht. ASC", 08.01.2018, includes species and declares 96,5% of fish meal and 91,6% of fish oil were ASC compliant in 2017. Statement BioMar, "Marine Ingredients used by BioMar Norway 2017", 26.02.2018, includes species and declares 80,6% of marine dry matter and 75% of fish oil were ASC compliant in 2017.		
4.3.2		b. Confirm that each individual score ≥ 6 and the biomass score is $\geq 6.$	EWOS statement " ASC feed declaration and information " d.t. 08. 01.2018 with details of raw material sources in specific feeds for this site in this period have scores according to ASCs requirement for this indicator. Correspondence verified. Individual score >6 and Biomass score >8. BIOMAR statement " Marine Ingredients used by BIOMAR Norway 2017" d.t 26.02.18 Correspondence verified. Individual score >6 and Biomass score >8.	Compliant	≥6
		c. If the species is not on the website it means that a FishSource assessment is not available. Client can then take one or both of the following actions: 1. Contact FishSource via Sustainable Fisheries Partnerships to identify the species as a priority for assessment. 2. Contract a qualified independent third party to conduct the assessment using the FishSource methodology and provide the assessment and details on the third party qualifications to the CAB for review.	No independent assessment		
			All have scores		
Footnote		[FF] O maintaine and a state of the state of	ology. See Appendix IV-3 for explanation of FishSource scoring.		
		Instruction to Clients for Indicator 4.3.3 - Third-Party Verification of Traceability Indicator 4.3.3 requires that farms show that their feed producers can demonstrate chain of c audits of feed producers (see 4.1.1c) as evidence that traceability systems are in compliance. A of Indicator 4.3.3 by submitting evidence that suppliers, and the batches of fishmeal and oil, a Responsible Supply or to the Marine Stewardship Council Chain of Custody Standard. For the first audit, a minimum of 6 months of data on feed is required and evidence shall related.	Alternatively, farms may show that their feed producers comply with traceability requirements re certified to the International Fishmeal and Fish Oil Organization's Global Standard for		
4.3.3	party verified chain of custody and traceability for the batches of fishmeal and fish oil which are in compliance with 4.3.2. Requirement: Yes Applicability: All	a. Obtain from the feed supplier documentary evidence that the origin of all fishmeal and fish oil used in the feed is traceable via a third-party verified chain of custody or traceability program.	EWOS: Audited by DNV GL GG CFM dt 16.06.17, Global G.A.P. CFM Version 2.1 Dec13. Certifcate GGN CoC 4050373825744 , valid to 24.04.18 BIOMAR: Audited by BV GG CFM dt 14.02.17, Global G.A.P. CFM Version 2.2 AUG16. Certifcate GGN CoC 4050373897437 , valid to 08.03.19	Constitut	
		b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a).	EWOS: Audited by DNV GL GG CFM dt 16.06.17, Global G.A.P. CFM Version 2.1 Dec13. Certifcate GGN CoC 4050373825744 , valid to 24.04.18 BIOMAR: Audited by BV GG CFM dt 14.02.17, Global G.A.P. CFM Version 2.2 AUG16. Certifcate GGN CoC 4050373897437 , valid to 08.03.19	Compliant	
		a. Compile and maintain, consistent with 4.2.1a and 4.2.2a, a list of the fishery of origin for all fishmeal and fish oil originating from by-products and trimmings.	EWOS statement " ASC feed declaration and information " d.t. 08. 01.2018 with details of raw material sources in specific feeds for this site in this period have scores according to ASCs requirement for this indicator. BIOMAR statement " Marine Ingredients used by BIOMAR Norway 2017" d.t 26.02.18 Correspondence verified, including reference to no use of marine species accriding to IUCN Red List		



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4.3.4	Indicator: Feed containing fishmeal and/or fish oil originating from by-products [56] or trimmings from IUU [57] catch or from fish species that are categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58], whole fish and fish meal from the same species and family as the species being farmed	b. Obtain a declaration from the feed supplier stating that no fishmeal or fish oil originating from IUU catch was used to produce the feed.	EWOS statement " ASC feed declaration and information " d.t. 08. 01.2018 with details of raw material sources in specific feeds for this site in this period have scores according to ASCs requirement for this indicator. BIOMAR statement " Marine Ingredients used by BIOMAR Norway 2017" d.t 26.02.18 Correspondence verified, including reference to no use of marine species accriding to IUCN Red List	Compliant		
	Requirement: None [59] Applicability: All except as noted in [59]	c. Obtain from the feed supplier declaration that the meal or oil did not originate from a species categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58] and explaining how they are able to demonstrate this (i.e. through other certification scheme or through their independent audit). d. If meal or oil originated from a species listed as "vulnerable" by IUCN, obtain documentary	EWOS statement "ASC feed declaration and information "d.t. 08. 01.2018 with details of raw material sources in specific feeds for this site in this period have scores according to ASCs requirement for this indicator. BIOMAR statement "Marine Ingredients used by BIOMAR Norway 2017" d.t 26.02.18 Correspondence verified, including reference to no use of marine species accriding to IUCN Red List			
		evidence to support the exception as outlined in [59].	Not from vulnerable fisheries			
		a. Request a link to a public policy from the feed manufacturer stating the company's support of efforts to shift feed manufacturers purchases of fishmeal and fish oil to fisheries certified under a scheme that is an ISEAL member and has guidelines that specifically promote responsible environmental management of small pelagic fisheries and committing to continuous improvement of source fisheries.	EWOS statement " ASC feed declaration and information " d.t. 08. 01.2018 with details of raw material sources in specific feeds for this site in this period have scores according to ASCs requirement for this indicator. BIOMAR statement " Krav til bærekraftige råvarer" d.t 29.06.17			
4.3.5	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for marine ingredients that includes a commitment to continuous improvement of source fisheries Requirement: Yes Applicability: All	b. Prepare a letter stating the farm's intent to source feed containing fishmeal and fish oil originating from fisheries certified under the type of certification scheme noted in indicator 4.3.1.	Annual Cermaq Group report 2017 on sustainability policy, requiring feed raw material from sutainable sourcing, (ISEAL scheme fisheries). Code of conduct feed suppliers for Cermaq Group with statement of intent and policy, dated 18.01.17	Compliant		
		c. Compile a list of the origin of all fish products used as feed ingredients in all feed.	EWOS statement " ASC feed declaration and information " d.t. 08. 01.2018 with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator. BIOMAR statement " Krav til bærekraftige råvarer" d.t 29.06.17			
Footnote	[56] Trimmings are defined as hy-pro-	ducts when fish are processed for human consumption or if whole fish is rejected for use of hu	man consumption because the quality at the time of landing does not meet official regulations	with regard to	fish suitable for human consumption	
	[55] Hillinings are defined as by-prof			arregaru to	non-saltable for numan consumption.	
Footnote			, Unregulated and Unreported.			
Footnote	[58] The International Union for the Conservation of Nature reference can be found at http://www.iucnredlist.org/. [59] For species listed as "vulnerable" by IUCN, an exception is made if a regional population of the species has been assessed to be not vulnerable in a National Red List process that is managed explicitly in the same science-based way as IUCN. In cases where a National Red List doesn't exist or isn't managed in accordance with IUCN guidelines, an exception is allowed when an assessment is conducted using IUCN's methodology and demonstrates that the population is not vulnerable. **Criterion 4.4 Source of non-marine row materials in feed**					
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
		a. Compile and maintain a list of all feed suppliers with contact information. (See also 4.1.1a)	·			



				-		
4.4.1	ingredients that comply with recognized crop	b. Obtain from each feed manufacturer a copy of the manufacturer's responsible sourcing policy for feed ingredients showing how the company complies with recognized crop moratoriums and local laws.	EWOS statement " ASC feed declaration and information " d.t. 0.8. 01.2018 with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator In BIOMAR statement " Krav til bærekraftige råvarer" d.t 29.06.17	Compliant		
	Applicability: All	c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible sourcing policies are implemented.	EWOS: Audited by DNV GL GG CFM dt 16.06.17, Global G.A.P. CFM Version 2.1 Dec13. Certifcate GGN CoC 4050373825744, valid to 24.04.18 BIOMAR: Audited by BV GG CFM dt 14.02.17, Global G.A.P. CFM Version 2.2 AUG16. Certifcate GGN CoC 4050373897437, valid to 08.03.19			
Footnote	[60] Moratorium: A period of time in which there is a s	I uspension of a specific activity until future events warrant a removal of the suspension or issue	I s regarding the activity have been resolved. In this context, moratoriums may refer to suspensi regions.	on of the grow	th of defined agricultural crops in defined geog	raphical
Footnote	[61] Specifically, the policy shall include that vegetable i	ngredients, or products derived from vegetable ingredients, must not come from areas of the A specific requir	mazon Biome that were deforested after July 24, 2006, as geographically defined by the Brazili ement shall be reconsidered.	an Soy Morato	rium. Should the Brazilian Soy Moratorium be l	ifted, this
		a. Prepare a policy stating the company's support of efforts to shift feed manufacturers' purchases of soya to soya certified under the Roundtable for Responsible Soy (RTRS) or equivalent.	Annual Cermaq Group report 2017 on sustainability policy, requiring feed raw material from sutainable sourcing, (ISEAL scheme fisheries). Code of conduct feed suppliers for Cermaq Group with statement of intent and policy, dated 18.01.17			
	Indicator: Percentage of soya or soya-derived ingredients in the feed that are certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62] Requirement: 100%	b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent)	Annual Cermaq Group report 2017 on sustainability policy, requiring feed raw material from sutainable sourcing, (ISEAL scheme fisheries). Code of conduct feed suppliers for Cermaq Group with statement of intent and policy, dated 18.01.17			
4.4.2		c. Notify feed suppliers of the farm's intent (4.4.2b).	Feed suppliers informed of relevant ASC requirements in mail to EWOS dt.18.06.15 Feed suppliers informed of relevant ASC requirements in mail to BIOMAR dt.09.09.16 Continuous communication related to ASC feed issues.	Compliant		100 %
	Applicability: All	d. Obtain and maintain declaration from feed supplier(s) detailing the origin of soya in the feed.	EWOS: Statement "Traceability, responsible sourcing and origin of soy in EWOS CFM" (being from Pro-Terra and RTRS) dt.18.01.18. In BIOMAR statement " Krav til bærekraftige råvarer" d.t 29.06.17 (e.g CERT ID BR48428, d.t 01.03.2018, ProTerra certificate)			
		e. Provide evidence that soya used in feed is certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62]	EWOS: Statement "Traceability, responsible sourcing and origin of soy in EWOS CFM" (being from Pro-Terra and RTRS) dt.18.01.18. In BIOMAR statement " Krav til bærekraftige råvarer" d.t 29.06.17 (e.g CERT ID BR48428, d.t 01.03.2018, ProTerra certificate)			
Footnote		[62] Any alternate certification scheme would have to be	be approved as equivalent by the Technical Advisory Group of the ASC.			
	Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw material, or raw materials derived from transgenic plants, in the	a. Obtain from feed supplier(s) a declaration detailing the content of soya and other plant raw materials in feed and whether it is transgenic.	EWOS: Statement "Traceability, responsible sourcing and origin of soy in EWOS CFM" (being from Pro-Terra and RTRS) dt.18.01.18. In BIOMAR statement " Krav til bærekraftige råvarer" d.t 29.06.17 (e.g CERT ID BR48428, d.t 01.03.2018, ProTerra certificate)			
4.4.3	feed Requirement: Yes, for each individual raw material containing > 1% transgenic content [65] Applicability: All	b. Disclose to the buyer(s) a list of any transgenic plant raw material in the feed and maintain documentary evidence of this disclosure. For first audits, farm records of disclosures must cover > 6 months.	EWOS: Staement regarding EWOS compuond Fish Feed, feed ingredietns foirm GM material, dated 18.01.18, Herborg Haaland BIOMAR: Statement on compound fish feed, including feed materials derived from GMO, dated 09.01.18, Ellinor Helland	Compliant		



	приновину. пи	c. Inform ASC whether feed contains transgenic ingredients (yes or no) as per Appendix VI for each production cycle.	Submitted to ASC in email dt.22.05.18		
Footnote	[63]	The company or entity to which the farm or the producing company is directly selling its produ	ct. This standard requires disclosure by the feed company to the farm and by the farm to the bu	yer of their sali	mon.
Footnote		[64] Transgenic: Containing genes altered by insertion of DNA from an unrelated organism. Tak	ing genes from one species and inserting them into another species to get that trait expressed i	n the offspring.	
Footnote			or transparency requirement for 4.4.3.		
		Criterion 4.5 Non-biolog Compliance Criteria (Required Client Actions):	ical waste from production Auditor Evaluation (Required CAB Actions):		
	Indicator: Presence and evidence of a functioning policy for proper and responsible [66] treatment of non-biological waste from production (e.g., disposal and recycling) Requirement: Yes Applicability: All	a. Prepare a policy stating the farm's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the farm's policy is consistent with best practice in the area of operation.	Environmental policy for Cermaq Norway AS with referance to other relevant internal documents and reports dated 30.08.17. Procedure "Avfallsplan Cermaq Norway AS version 14" ID 164, d.t. 27.03.18, identifying waste materials and how to handle it Policy and vision and defined in environmental annual report from Cermaq Group report on corporate level, considering stakeholders, variuos environmental specters. All nonbiological waste handled by SAR Hammerfest, Finnmark Ressursselskap and Finnmark Gjenvinning AS, which are apporved receivers of all kind of waste. The site has site specific plan for waste handling in their environmental targets, updated annually.		
4.5.1		b. Prepare a declaration that the farm does not dump non-biological waste into the ocean.	Declaration d.t 23.05.18, no dumping of non-biological waste in the sea, and procedure "Avfallsplan Cermaq Norway AS version 14" ID 164, d.t 27.03.18, identifying waste materials and how to handle it.	Compliant	
		c. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of.	This is described in waste management plan and the above referred procedures. All nonbiological waste handled by SAR Hammerfest, Finnmark Ressursselskap and Finnmark Gjennvinning AS. The site could document all deliveries, but there is some uncertainty with respect to documentation showing from which sites the various waste have been delivered after arrival at waste contractor. This is not the responsibility of the site, but the technical department		
		d. Provide a description of the types of waste materials that are recycled by the farm.	Declaration no 300380509, from Norwegian Environmental Agency (Miljødirektoratet), d.t. 21.09.17, deliverd to Finnmark Gjennvinning AS, 500 kg used oil filters, from site Storholmen and Olderfjord, waste no 7024.		
Footnote	[66] Proper and responsible disposal will vary based on far waste into the ocean does not represent "proper and resp	cilities available in the region and remoteness of farm sites. Disposal of non-biological waste shoonsible" disposal.	all be done in a manner consistent with best practice in the area. Dumping of non-biological		
		a. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of. (see also 4.5.1c)	Local plan for waste materials, d.t 27.03.2018, indentifying waste materials, e.g. Paper, big bags from feed, electric waste, dangerous waste, special waste, old productions equipment, etc The plan identify all receivers and how to proper dispose the waste		
		b. Provide a description of the types of waste materials that are recycled by the farm. (See also 4.5.1d)	Cermaq deliver all big bags from feed back to recycling. The recycling is dobne by Finnmark Ressursselskap		
452	Indicator: Evidence that non-biological waste (including net pens) from grow-out site is either disposed of properly or recycled	c. Inform the CAB of any infractions or fines for improper waste disposal received during the previous 12 months and corrective actions taken	No infractions identified.	Compliant	



	Requirement: Yes			COMPHANT		
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	Applicability: All		Declaration no 300380509, from Norwegian Environmental Agency (Miljødirektoratet), d.t. 21.09.17, deliverd to Finnmark Gjennvinning AS, 500 kg used oil filters, from site Storholmen and Olderfjord, waste no 7024.			
		d. Maintain records of disposal of waste materials including old nets and cage equipment.	Invoice from Mørenot and reports from NoFIR, no 1610, d.t. 13.01.17, net no 3901, 3858 to waste handling, environmental receipt for no 1610, 1632 kg net.			
			Invoice no 65, Alta Akvaservice AS, old feed pipes, d.t 15.04.2018			
			greenhouse gas emissions on farms [67]			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[67] See Appendix VI for transpi	arency requirements for 4.6.1, 4.6.2 and 4.6.3.		T	
	Indicator: Presence of an energy use assessment verifying the energy consumption on the farm and representing the whole life cycle at sea, as outlined in Appendix V- 1 Requirement: Yes, measured in kilojoule/t fish produced/production cycle Applicability: All	Instruction to Clients for Indicator 4.6.1 - Energy Use Assessment Indicator 4.6.1 requires that farms must have an assessment to verify energy consumption. Th applying for certification. Boundaries for operational energy use should correspond to the sou Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) energy use assessments across the board in the company. For the purposes of calculating energy consumption, the duration of the production cycle is th have integrated smolt rearing should break out the grow-out stage portion of energy consumpt Verification is done by internal or external assessment following either the GHG Protocol Corp	cross of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to is not required. However the SAD Steering Committee encourages companies to integrate the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that ofton if possible. Quantities of energy (fuel and electricity) are converted to kilojoules.			
v		a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle.	Records and calculations ok			
		b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle.	Lat complete production cycle 15G: 6 191 662 514 KJ			
ļ		c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle.	4026,53 MT biomass produced during last complete production cyclus 15G	Compliant		1 537 718
		d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle.	Last complete production cycle (2015G): 1 537 718 KJ/MT	Compilant		KJ/MT
		e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle.	Submitted to ASC in email dt.22.05.18			
		f. Ensure that the farm has undergone an energy use assessment that was done in compliance with requirements of Appendix V-1.	Scope 1 Diesel, fuel oil, crude oil, petrol, propane Scope 2 Electricity. Assessed and compared between sites and production forms.			
		Instruction to Clients for Indicator 4.6.2 - Annual GHG Assessment Indicator 4.6.2 requires that farms must have an annual Greenhouse Gas (GHG) assessment. Detailed instructions are presented in Appendix V-1 and references therein. The scope of this requirement is restricted to operational boundaries for the farm site(s) that is applying for certification. However the SAD Steering Committee encourages companies to integrate GHG accounting practices across the board in the company. Verification may be done by internal or external assessment following either the GHG Protocol Corporate Standard or ISO 14064-1 (see Appendix V-1 for more details). Note: For the purposes of this standard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO ₂); methane (CH ₄); nitrous oxide (N ₂ O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF ₆).				
		a. Maintain records of greenhouse gas emissions on the farm.	Farm records of GHG assessment.			



4.6.2	Indicator: Records of greenhouse gas (GHG [68]) emissions [69] on farm and evidence of an annual GHG assessment, as outlined in Appendix V-1 Requirement: Yes Applicability: All	b. At least annually, calculate all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1. c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors. d. For GHG calculations involving conversion of non-CO ₂ gases to CO ₂ equivalents, specify the Global Warming Potential (GWP) used and its source. e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year. f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually.	Farm records of GHG are done continuesly for a month period. Record for 2017: Scope 1: 185 861,77 kg CO2e Scope 2: 0 kg CO2e Total Scope 1+2 = 185 861,77 kg CO2e Farm records of GHG assessment. Scope 1 diesel from diesel/gasoline workboat, truck, generator and scope 2 is purchased electricity and purchased service boat diesel consumption. All calculated to CO2e Submitted to ASC in email dt.22.05.18 Calculations and assessments provided.	Compliant		185 861 kg CO2
Footnote	[68] For the purpos	es of this standard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxid	le (CO_2) ; methane (CH4); nitrous oxide (N_2O) ; hydrofluorocarbons (HFCs); perfluorocarbons (PF	Cs); and sulphu	r hexafluoride (SF ₆).	
Footnote		[69] GHG emissions must be recorded using recog	nized methods, standards and records as outlined in Appendix V.			
	Indicator: Documentation of GHG emissions of the feed	Instruction to Clients for Indicator 4.6.3 - GHG Emissions of Feed Indicator 4.6.3 requires that farms document the greenhouse gas emissions (GHG) associated from their feed supplier(s) and thereafter maintain a continuous record of Feed GHG emission production cycle. Therefore farms should inform their feed supplier(s) and: - the farm provides its feed suppliers with detailed information about the requirements includ - the farm explain what analyses must be done by feed suppliers; and - the farm explains to feed suppliers what documentary evidence will be required by the farm Note1: Farms may calculate GHG emissions of feed using the average raw material composition basis. Note2: Feed supplier's calculations must include Scope 1, Scope 2, and Scope 3 GHG emission	ins throughout all production cycles. This requirement applies across the entire previous ling a copy of the methodology outlined in Appendix V, subsection 2; to demonstrate compliance.			
4.6.3	[70] used during the previous production cycle, as outlined in Appendix V, subsection 2 Requirement: Yes Applicability: All	a. Obtain from feed supplier(s) a declaration detailing the GHG emissions of the feed (per kg feed).	GHG emission: 2015G: EWOS Factor is 1.578 kg/tonn =1.578 pr.kg. 2015G BioMar: 1,83 kg COe/kg feed as calculated by BioMar			
		b. Multiply the GHG emissions per unit feed by the total amount of feed from each supplier used in the most recent completed production cycle.	Feed usage 15 G productioncycle, EWOS: 3054,5 MT BioMar: 1448,6 MT Total: 4497,1 MT	Compliant		7 496 ton CO2
		c. If client has more than one feed supplier, calculate the total sum of emissions from feed by summing the GHG emissions of feed from each supplier.	15G production cycle: EWOS factor 1.578 BIOMAR factor 1.83 7 496 640 kg CO2e			
		d. Submit GHG emissions of feed to ASC as per Appendix VI for each production cycle.	Submitted to ASC in email dt.22.05.18			
Footnote	[70] GHG emissions from feed can be given based on th	ie average raw material composition used to produce the salmon (by weight) and not as docum shall use that information to calculate GHG emissic	entation linked to each single product used during the production cycle. Feed manufacturer is too so for the volume of feed they used in the prior production cycle.	responsible for	calculating GHG emissions per unit feed. Farm	site then
	Criterion 4.7 Non-therapeutic chemical inputs [71,72]					



		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote			use antifoulants shall be considered exempt from standards under Criterion 4.7.			
Footnote		[72] See Appendix VI for transp	arency requirements for 4.7.1, 4.7.3 and 4.7.4.			
		a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.	Procedure "Prosedyre for kontroll, ettersyn og renhold av not" ID 315, d.t. 22.08.17. Internal statement/procedure on antifouling used and not cleaning in sea defined in procedure and confirm that nets are not to be cleaned on site			
4.7.1	Indicator: For farms that use copper-treated nets [73], evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes	b. Maintain records of antifoulants and other chemical treatments used on nets.	Documents and traceability available in QMS system and net log from Mørenot. "Netpolish NP Super" whitout copper by NETKEM is used, ref safety sheet d.t 17.03.2014, version 2, EU 2092/91. No need for classification according to the Norwegian Environmental Agency	Compliant		
	Applicability: All farms except as noted in [71]	c. Declare to the CAB whether copper-based treatments are used on nets.	No use of copper-based treatment on the nets			
		d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ.	No use of copper-based treatment on the nets			
		e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle.	Submitted to ASC in email dt.22.05.18			
Footnote			oulant) durng the previous 18 months, or has not undergone thorough cleaning at a land-based g has elapsed as in this definition. This will allow farms to move away from use of copper without			e, at some
Footnote	[74] Light cleaning of nets is allowed	d. Intent of the standard is that, for example, the high-pressure underwater washers could not	be used on copper treated nets under this standard because of the risk of copper flaking off du	ring this type o	f heavy or more thorough cleaning.	
	Indicator: For any farm that cleans nets at on-land sites,	a. Declare to the CAB whether nets are cleaned on-land.	Procedure for control, and cleaning of nets (ID315). Nets are not washed in sea. Copper treated nets are used on this site. Washed by Mørenot, Hammerfest. No discharge of CU to sea.			
4.7.2	evidence that net-cleaning sites have effluent treatment [75] Requirement: Yes	b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place.	Mørenot is subcontracted to do the cleaning and antifouling treatment. Mørenot is certified in accordance with NYTEK NS 9415, dated 19.12.16, valid to 12.12.21	Compliant		
	Applicability: All farms except as noted in [71]	c. If yes to 4.7.2b, obtain evidence that effluent treatment used at the cleaning site is an appropriate technology to capture of copper in effluents.	Mørenot is subcontracted to do the cleaning and antifouling treatment. Mørenot is certified in accordance with NYTEK NS 9415, dated 19.12.16, valid to 12.12.21			
Footnote		[75] Treatment must have appropriate technologie	es in place to capture copper if the farm uses copper-treated nets.			
	Indicator: For farms that use copper nets or copper-	Note: If the benthos throughout and immediately outside the full AZE is hard bottom, provide	evidence to the CAB and request an exemption from Indicator 4.7.3 (see 2.1.1c).			
4.7.3	treated nets, evidence of testing for copper level in the sediment outside of the AZE, following methodology in Appendix I-1	a. Declare to the CAB whether the farm uses copper nets or copper-treated nets. (See also 4.7.1c). If "no", Indicator 4.7.3 does not apply.	No use of copper-based treatment on the nets			
	Requirement: Yes	b. If "yes" in 4.7.3a, measure and record copper in sediment samples from the reference stations specified in 2.1.1d and 2.1.2c which lie outside the AZE.	No use of copper-based treatment on the nets	N/A	No use of copper-based treatment on the nets	



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	Applicability: All farms except as noted in [71]	c. If "yes" in 4.7.3a, maintain records of testing methods, equipment, and laboratories used to test copper level in sediments from 4.7.3b.	No use of copper-based treatment on the nets			
	Indicator: Evidence that copper levels [76] are < 34 mg Cu/kg dry sediment weight,	a. Inform the CAB whether: 1) farm is exempt from Indicator 4.7.4 (as per 4.7.3a), or 2) Farm has conducted testing of copper levels in sediment.	No use of copper-based treatment on the nets			
	or, in instances where the Cu in the sediment exceeds 34 mg Cu/kg dry sediment weight, demonstration that the Cu	b. Provide evidence from measurements taken in 4.7.3b that copper levels are < 34 mg Cu/kg dry sediment weight.	No use of copper-based treatment on the nets			
4.7.4	concentration falls within the range of background concentrations as measured at three reference sites in the water body Requirement: Yes	c. If copper levels in 4.7.4b are \geq 34 mg Cu/kg dry sediment weight, provide evidence the farm tested copper levels in sediments from reference sites as described in Appendix I-1 (also see Indicators 2.1.1 and 2.1.2).	No use of copper-based treatment on the nets	N/A	No use of copper-based treatment on the nets	
	Applicability: All farms except as noted in [71] and excluding those farms shown to be exempt from Indicator	d. Analyze results from 4.7.4c to show the background copper concentrations as measured at three reference sites in the water body.	No use of copper-based treatment on the nets			
	4.7.3	e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle.	No use of copper-based treatment on the nets			
Footnote		[76] According to testing required under 4.7.3. The standards related to testing	ng of copper are only applicable to farms that use copper-based nets or copper-treated nets.			
	Indicator: Evidence that the type of biocides used in net antifouling are approved according to legislation in the European Union, or the United States, or Australia	a. Identify all biocides used by the farm in net antifouling.	Documents and traceability available in QMS system and net log from Mørenot. "Netpolish NP Super" whitout copper by NETKEM is used, ref safety sheet d.t 17.03.2014, version 2, EU 2092/91, USA, FDA # 172.886. No need for classification according to the Norwegian Environmental Agency			
4.7.5	' ' ' ' '	b. Compile documentary evidence to show that each chemical used in 4.7.5a is approved according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia.	Documents and traceability available in QMS system and net log from Mørenot. "Netpolish NP Super" whitout copper by NETKEM is used, ref safety sheet d.t 17.03.2014, version 2, EU 2092/91, USA, FDA # 172.886. No need for classification according to the Norwegian Environmental Agency	Compliant		
PRINCIPLE 5	: MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTA		l health of farmed fish [77]			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote			arency requirements for 5.1.4, 5.1.5 and 5.1.6.			
	Indicator: Evidence of a fish health management plan for the identification and monitoring of fish diseases, parasites and environmental conditions relevant for good fish health, including implementing corrective action	a. Prepare a fish health management plan that incorporates components related to identification and monitoring of fish disease and parasites. This plan may be part of a more comprehensive farm planning document.	Site specific Fish Health Plan for Nordnes and Store Lerresfjord in QMS with links to relevant procedures. Plan covers all aspect of relevant diseaes and parasite diagnostics and control measures. Internal veterinary services, responsible veterinarian, Approved and signed by veterinarian dt. 09.06.17 Karl Fredrik Otem.			
5.1.1	when required Requirement: Yes Applicability: All	b. Ensure that the farm's current fish health management plan was reviewed and approved by the farm's designated veterinarian [78].	Approved and signed by veterinarian dt.09.06.17 Karl Fredrik Ottem.	Compliant		
		a. Maintain records of visits by the designated veterinarian [78] and fish health managers [82]. If schedule cannot be met, a risk assessment must be provided.	Minimum 12 visits annually. System for weekly scheduled meetings covering e.g FH issues. Verified in veterinarian log for periode 31.05.17-11.4.18 for site, 11 visits with documented reports. Last visit 11.04.18. Demand for montly visit due to ISA situattion in the area			
5.1.2	Indicator: Site visits by a designated veterinarian [78] at least four times a year, and by a fish health manager [79] at least once a month Requirement: Yes Analicability: All	b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79].	Internal: Fish Heath Biol: Karl Fredrik Ottem HPR nr. 7516525 Vet. Elisabeth Ann Myklebust: HPR No. 6025056 Eksternal: (Marin Helse AS) Vet. Ann Kristin Johansen, HPR.no 10046035	Compliant		



Footnote		veterinarian for purposes of these standards. This definition a	Internal: Fish Heath Biol: Karl Fredrik Ottem HPR nr. 7516525 Vet. Elisabeth Ann Myklebust: HPR No. 6025056 Eksternal: (Marin Helse AS) Vet. Ann Kristin Johansen, HPR.no 10046035 prescribe medication. In some countries such as Norway, a fish health biologist or other profesophies to all references to a veterinarian throughout the standards document.			alent to a
Footnote	[79] A fis	th health manager is someone with professional expertise in managing fish health, who may wo	rk for a farming company or for a veterinarian, but who does not necessarily have the authorit	to prescribe m	nedicine.	•
	Indicator: Percentage of dead fish removed and disposed of in a responsible manner	a. Maintain records of mortality removals to show that dead fish are removed regularly and disposed of in a responsible manner.	Daily removal of dead fish (registration in FishTalk system) and processed to ensilage. All mortalitys to ensilage. Scanbio Biokraft Marine AS on ensilage collection. Contract signed dt 18.11.10. Seen "Prosedyre for håndtering av dødfisk,svimere og ensillasje" ID 289 dated 29.09.17 in QMS system.			
5.1.3	Requirement: 100% [80] Applicability: All	b. Collect documentation to show that disposal methods are in line with practices recommended by fish health managers and/or relevant legal authorities.	System established for handling and documentation according to requirements in national legislation handled by NFSA. Seen Handelsdocument, Scanbio Ingridients AS Invoice nr. RP-12670 on retrival of 2400 liter ensilage dt. 05.12.17	Compliant		100 %
		c. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification.	No exceptional mortalites			
Footnote		[80] The SAD recognizes that not all mortality events will result in dead fish present for	collection and removal. However, such situations are considered the exception rather than the	norm.		
		Note: Farms are required to maintain mortality records from the current and two previous prollt is recommended that farms maintain a compiled set of records to demonstrate compliance	oduction cycles. For first audit, records for the current and prior production cycle are required. with 5.1.3 - 5.1.6.			
		a. Maintain detailed records for all mortalities and post-mortem analyses including: - date of mortality and date of post-mortem analysis; - total number of mortalities and number receiving post-mortem analysis; - name of the person or lab conducting the post-mortem analyses; - qualifications of the individual (e.g. veterinarian [78], fish health manager [79]); - cause of mortality (specify disease or pathogen) where known; and - classification as 'unexplained' when cause of mortality is unknown (see 5.1.6).	100 % off Mortality categorised for 17G, documented in Fishtalk: Precent cycle 17G accumulated: Total mortality 7,08 % d.d Causes e.g. bad smoltification (46,14%), wounds (25,25%), loosers (5,10%) Virus 0,34 % + Unspesified 0,08 % = Virus + Unspesified = 0,41 % . Unexplained mortality 0,0% of total Last complete production cyclus 15G: Total mortality 18,08 % Virus 7,18% + Unspesified 0,37 % = Virus + Unspesified = 7,55%. Unexplained mortality 2,06% of total			
5.1.4	Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis Requirement: 100% [81]	b. For each mortality event, ensure that post-mortem analyses are done on a statistically relevant number of fish and keep a record of the results.	All mortalitys are diagnoesed and post-mortem analyses are done on a statistically relevant number of fish (ref unspecified numbers above). Lab analyses routinely.			
	Applicability: All	c. If on-site diagnosis is inconclusive and disease is suspected or results are inconclusive over a 1-2 week period, ensure that fish are sent to an off-site laboratory for diagnosis and keep a record of the results (5.1.4a).	Mortality samples sendt 11.04.18 to PatoGen lab for analyze, PG 038679. Screnning ILA,SAV/PD, diagnose negativ dt.17.04.18 , report from PatoGen	Compliant		100 %
		d. Using results from 5.1.3a-c, classify each mortality event and keep a record of those classifications.	Record are available and documented in Fishtalk, all mortalitys are categorised.			
		e. Provide additional evidence to show how farm records in 5.1.4a-d cover all mortalities from the current and previous two production cycles (as needed).	Record are available and documented in Fishtalk production system where mortalitys are recorded and categorised according to FHP and mortality guide.			



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		f. Submit data on numbers and causes of mortalities to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	Submitted to ASC in email dt.22.05.18			
Footnote	[81] If on-site diagnosis is inconclusive, this standard req	uires off-site laboratory diagnosis. A qualified professional must conduct all diagnosis. One hund	dred percent of mortality events shall receive a post-mortem analysis, not necessarily every fish analyzed.	n. A statistically	relevant number of fish from the mortality eve	ent shall be
	Indicator: Maximum viral disease-related mortality [82] on farm during the most recent production cycle Requirement: ≤ 10% Applicability: All	a. Calculate the total number of mortalities that were diagnosed (see 5.1.4) as being related to viral disease.	100 % off Mortality categorised for 17G, documented in Fishtalk: Precent cycle 17G accumulated: Total mortality 7,08 % d.d Causes e.g. bad smoltification (46,14%), wounds (25,25%), loosers (5,10%) Virus 0,34 % + Unspesified 0,08 % = Virus + Unspesified = 0,41 % . Unexplained mortality 0,0% of total Last complete production cyclus 15G: Total mortality 18,08 % Virus 7,18% + Unspesified 0,37 % = Virus + Unspesified = 7,55%. Unexplained mortality 2,06% of total			
5.1.5		b. Combine the results from 5.1.5a with the total number of unspecified and unexplained mortalities from the most recent complete production cycle. Divide this by the total number of fish produced in the production cycle (x100) to calculate percent maximum viral disease-related mortality.	100 % off Mortality categorised for 17G, documented in Fishtalk: Precent cycle 17G accumulated: Total mortality 7,08 % d.d Causes e.g. bad smoltification (46,14%), wounds (25,25%), loosers (5,10%) Virus 0,34 % + Unspesified 0,08 % = Virus + Unspesified = 0,41 % . Unexplained mortality 0,0% of total Last complete production cyclus 15G: Total mortality 18,08 % Virus 7,18% + Unspesified 0,37 % = Virus + Unspesified = 7,55%. Unexplained mortality 2,06% of total	Compliant		7,55 %
		c. Submit data on total mortality and viral disease-related mortality to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	Submitted to ASC in email dt.22.05.18			
Footnote		[82] Viral disease-related mortality count shall include uns	specified and unexplained mortality as it could be related to viral disease.			
	Indicator: Maximum unexplained mortality rate from each of the previous two production cycles, for farms with total mortality > 6% Requirement: ≤ 40% of total mortalities Applicability: All farms with > 6% total mortality in the most recent complete production cycle.	a. Use records in 5.1.4a to calculate the unexplained mortality rate (%) for the most recent full production cycle. If rate was \leq 6%, then the requirement of 5.1.6 does not apply. If total mortality rate was $>$ 6%, proceed to 5.1.6b.	100 % off Mortality categorised for 17G, documented in Fishtalk: Precent cycle 17G accumulated: Total mortality 7,08 % d.d Causes e.g. bad smoltification (46,14%), wounds (25,25%), loosers (5,10%) Virus 0,34 % + Unspesified 0,08 % = Virus + Unspesified = 0,41 % . Unexplained mortality 0,0% of total Last complete production cyclus 15G: Total mortality 18,08 % Virus 7,18% + Unspesified 0,37 % = Virus + Unspesified = 7,55%. Unexplained mortality 2,06% of total			
5.1.6		b. Calculate the unexplained mortality rate (%) for each of the two production cycles immediately prior to the current cycle. For first audit, calculation must cover one full production cycle immediately prior to the current cycle.	100 % off Mortality categorised for 17G, documented in Fishtalk: Precent cycle 17G accumulated: Total mortality 7,08 % d.d Causes e.g. bad smoltification (46,14%), wounds (25,25%), loosers (5,10%) Virus 0,34 % + Unspesified 0,08 % = Virus + Unspesified = 0,41 % . Unexplained mortality 0,0% of total Last complete production cyclus 15G: Total mortality 18,08 % Virus 7,18% + Unspesified 0,37 % = Virus + Unspesified = 7,55%. Unexplained mortality 2,06% of total	Compliant		2,06 %
		c. Submit data on maximum unexplained mortality to ASC as per Appendix VI for each production cycle.	Submitted to ASC in email dt.22.05.18			
		Note: Farms have the option to integrate their farm-specific mortality reduction program into	the farm's fish health management plan (5.1.1).			
	Indicator: A farm-specific mortalities reduction program that includes defined annual targets for reductions in mortalities and reductions in unexplained mortalities	a. Use records in 5.1.4a to assemble a time-series dataset on farm-specific mortalities rates and unexplained mortality rates.	Mortality rate reduction programme (Corporate leve Finnmark on <10% morts pr.generation). Mortality reduction programs also part of managment review for Cermaq Norway and Cermaq Group. Specified in FHP, on site level with concrete objectives for actions to reduce to less than 4,8 % 12 months rolling.			
5.1.7	Requirement: Yes Applicability: All	b. Use the data in 5.1.7a and advice from the veterinarian and/or fish health manager to develop a mortalities-reduction program that defines annual targets for reductions in total mortality and unexplained mortality.	Mortality rate reduction programme (Corporate leve Finnmark on <10% morts pr.generation). Mortality reduction programs also part of managment review for Cermaq Norway and Cermaq Group. Specified in FHP, on site level with concrete objectives for actions to reduce to less than 4,8 % 12 months rolling.	Compliant		



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		c. Ensure that farm management communicates with the veterinarian, fish health manager, and staff about annual targets and planned actions to meet targets.	Confirmed during interviews		
		Criterion 5.2 Therap	peutic treatments [83]		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote		[83] See Appendix VI for transpare	ncy requirements for 5.2.1, 5.2.5, 5.2.6 and 5.2.10.		,
Indicator 5.2.	o Clients and CABs for Criterion 5.2 - Records Related to T .1 requires that farms maintain detailed record of all chem th 5.2.10) under Criterion 5.2.				
5.2.1	Indicator: On-farm documentation that includes, at a minimum, detailed information on all chemicals [84] and therapeutants used during the most recent production cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated and against which diseases, proof of proper dosing, and all disease and pathogens detected on the site Requirement: Yes Applicability: All	a. Maintain a detailed record of all chemical and therapeutant use that includes: - name of the veterinarian prescribing treatment; - product name and chemical name; - reason for use (specific disease) - date(s) of treatment; - amount (g) of product used; - dosage; - t of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and - the supplier of the chemical or therapeutant.	Allowed usage defined in Fish Health Plan. Antibiotics not used. Treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV including dates for usage, quantity and dosage, withdrawal periods defined and regsitered in Fishtalk. E.g on 15G: Slice Vet used in net cage no 2 prescription nr. 28082015eam, dt.25.08.2015. 43 tons Slice vet, supplier EWOS, Batch no. 3811851 . Emamectin treatment periode 14.09.15 - 23.09.15	Compliant	
		b. If not already available, assemble records of chemical and therapeutant use to address all points in 5.2.1a for the previous two production cycles. For first audits, available records must cover one full production cycle immediately prior to the current cycle.	Allowed usage defined in FHP. Other treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV. Dates for usage, quantity and dosage, withdrawal periods defined and registered in Fishtalk.		
		c. Submit information on therapeutant use (data from 5.2.1a) to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	Submitted to ASC in email dt.22.05.18		
Footnote		[84] Chemicals	used for the treatment of fish.		
	Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [85]	a. Prepare a list of therapeutants, including antibiotics and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing countries listed in [86].	Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked " In FHP " oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances		
5.2.2	in any of the primary salmon producing or importing countries [86] Requirement: None Applicability: All	b. Maintain records of voluntary and/or mandatory chemical residue testing conducted or commissioned by the farm from the prior and current production cycles.	Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked " In FHP " oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances	Compliant	
		-	Compliance verified and in accordance with requirements and also in accordance with reports and usage recorded in production system Fishtalk.		
Footnote	[85] "Banned" means proactively prohibited by a gove	imary salmon-producing or importing countries, as defined here, cannot be used in any salmon mends that ASC maintain a list of a banned therapeutants.	farm certified	under the SAD, regardless of country of production or	
Footnote		[86] For purposes of this standard, those countries are	e Norway, the UK, Canada, Chile, the United States, Japan and France.		
	Indicator: Percentage of medication events that are prescribed by a veterinarian	a. Obtain prescription for all therapeutant use in advance of application from the farm veterinarian (or equivalent, see [78] for definition of veterinarian).	Record of prescriptions: 5 prescription on 17 G, all from veterinarian / fish biolog E.g Prescription nr. 180504eam, dt.04.05.2018., Benzoak vet, 2 liter, supplier ACD.	Compliant	100



	Requirement: 100% Applicability: All	b. Maintain copies of all prescriptions and records of veterinarian responsible for all medication events. Records can be kept in conjunction with those for 5.2.1 and should be kept for the current and two prior production cycles.	100% of treatment events are prescribed by a veterinarian Original presciption in site folder and regsitered in Fishtalk with witholding periods defined in prescription and in Fishtalk.	Соттривн		100 /0
		a. Incorporate withholding periods into the farm's fish health management plan (see 5.1.1a).	In Fishtalk, automatically notified/blocked according to degreedays witholdingtime stated in prescription. According to FHMP/VHP on withholding periods defined in Fishtalk and specific presecription.			
5.2.4	Indicator: Compliance with all withholding periods after treatments Requirement: Yes	b. Compile and maintain documentation on legally-required withholding periods for all treatments used on-farm. Withholding period is the time interval after the withdrawal of a drug from the treatment of the salmon before the salmon can be harvested for use as food.	Documented in Fishtalk, automatically notified/blocked according to degreedays witholdingtime stated in prescription.	Compliant		
	Applicability: All	c. Show compliance with all withholding periods by providing treatment records (see 5.2.1a) and harvest dates for the most recent production cycle.	In Fish Talk where treatment dates are specified and compared to harvest dates. According to FHMP/VHP on withholding periods defined. E.g 15G Net cage #03 Harvesting/slaughtering date 20.03.2017. Last treatment with Benzoak, Quaranatine finished 14.03.2017			
5.2.5	Indicator: Maximum farm level cumulative parasiticide treatment index (PTI) score as calculated according to the formula in Appendix VII	a. Using farm data for therapeutants usage (52.1a) and the formula presented in Appendix VII, calculate the cumulative parasiticide treatment index (PTI) score for the most recent production cycle. Calculation should be made and updated on an ongoing basis throughout the cycle by farm manager, fish health manager, and/or veterinarian.	Calculations verified. PTI score calculated according to ASC and Reference is made to VR 97,on PTI calculation method confirmed by ASC See www.asc-aqua.org for VR details firmed by ASC dt.20.08.15	Compliant		9,90
	Requirement: PTI score ≤ 13 Applicability: All	b. Provide the auditor with access to records showing how the farm calculated the PTI score.	PTI score (2017G): 0,033 PTI score (2015G): 9,9	Compilant		3,30
	•	c. Submit data on farm level cumulative PTI score to ASC as per Appendix VI for each production cycle.	Submitted to ASC in email dt.22.05.18			
		a. Review PTI scores from 5.2.5a to determine if cumulative PTI ≥ 6 in the most recent production cycle. If yes, proceed to 5.2.6b; if no, Indicator 5.2.6 does not apply.	PTI score (2017G): 0,033 PTI score (2015G): 9,9			
	Indicator: For farms with a cumulative PTI ≥ 6 in the most recent production cycle, demonstration that parasiticide load [87] is at least 15% less that of the average of the	b. Using results from 5.2.5 and the weight of fish treated (kg), calculate parasiticide load in the most recent production cycle [90].	Calculations verified. Present cycle (2017G): parasitic load 116 070 400 (99,7% reduction) Previous cycle (2015G): parasitic load 34 661 753 600			
	two previous production cycles Requirement: Yes Applicability: All farms with a cumulative PTI ≥ 6 in the most recent production cycle	c. Calculate parasiticide load in the two previous production cycles as above (5.2.6b) and compute the average. Calculate the percent difference in parasiticide load between current cycle and average of two previous cycles. For first audit, calculation must cover one full production cycle immediately prior to the current cycle.	Calculations verified. Present cycle (2017G): parasitic load 116 070 400 (99,7% reduction) Previous cycle (2015G): parasitic load 34 661 753 600	Compliant		
		d. As applicable, submit data to ASC on parasiticide load for the most recent production cycle and the two previous production cycles (Appendix VI).	Submitted to ASC in email dt.22.05.18			
Footnote	[87] Parasiticide load = Sum (kg of fish treated	x PTI). Reduction in load required regardless of whether production increases on the site. Farm	s that consolidate production across multiple sites within an ABM can calculate reduction base	d on the combi	ned parasiticide load of the consolidated sites.	
	Indicator: Allowance for prophylactic use of antimicrobial treatments [88]	a. Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles.	No antibiotics used the recent cycles.			
5 2 7	Requirement: None	b. Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3)	No antibiotics used the recent cycles.	Compliant		!
	Applicability: All	c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.9).	No antibiotics used the recent cycles.			
Footnote		[88] The designated veterinarian must certify that	t a pathogen or disease is present before prescribing medication.			



		Note 1: Farms have the option to certify only a portion of the fish or farm site when WHO-liste farms must request an exemption from the CAB in advance of the audit and provide sufficient Note 2: It is recommended that the farm veterinarian review the WHO list [see 89] in detail ar not inclusive of all drugs. a. Maintain a current version of the WHO list of antimicrobials critically and highly important	records giving details on which pens were treated and traceability of those treated fish. Indicate that the list is meant to show examples of members of each class of drugs, and is			
5.2.8	Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the World Health Organization (WHO [89]) Requirement: None [90]	for human health [89]. b. If the farm has <u>not</u> used any antibiotics listed as critically important (5.2.8a) in the current production cycle, inform the CAB and proceed to schedule the audit.	Valid WHO list 5th edition 2016 demonstrated No antibiotics used the recent cycles.			
	Applicability: All	c. If the farm <u>has</u> used antibiotics listed as critically important (5.2.8a) to treat any fish during the current production cycle, inform the CAB prior to scheduling audit.	No antibiotics used the recent cycles.	Compliant		
		d. If yes to 5.2.8c, request an exemption from the CAB to certify only a portion of the farm. Prior to the audit, provide the CAB with records sufficient to establish details of treatment, which pens were treated, and how the farm will ensure full traceability and separation of treated fish through and post- harvest.	No antibiotics used the recent cycles.			
Footnote		[89] The fifth edition of the WHO list of critically and highly important antimicrobials was re	eleased in 2009 and is available at: http://www.who.int/foodsafety/publications/antimicrobials	-fifth/en/.		
Footnote		[90] If the antibiotic treatment is applied to only a portion of the pens on a	a farm site, fish from pens that did not receive treatment are still eligible for certification.			
	Indicator: Number of treatments [91] of antibiotics over	Note: for the purposes of Indicator 5.2.9, "treatment" means a single course of medication giv one or more pens (or cages).	en to address a specific disease issue and that may last a number of days and be applied in			
5.2.9	the most recent production cycle Requirement: ≤ 3	a. Maintain records of all treatments of antibiotics (see 5.2.1a). For first audits, farm records must cover the current and immediately prior production cycles in a verifiable statement.	No antibiotics used the recent cycles.	Compliant		0
	Applicability: All	b. Calculate the total number of treatments of antibiotics over the most recent production cycle and supply a verifiable statement of this calculation.	No antibiotics used the recent cycles.			
Footnote		[91] A treatment is a single course medication given to	o address a specific disease issue and that may last a number of days.			
		Note: Indicator 5.2.10 requires that farms must demonstrate a reduction in load required, reg- multiple sites within an ABM can calculate reduction based on the combined antibiotic load of				
	Indicator: If more than one antibiotic treatment is used in the most recent production cycle, demonstration that	a. Use results from 5.2.9b to show whether more than one antibiotic treatment was used in the most recent production cycle. If not, then the requirement of 5.2.10 does not apply. If yes, then proceed to 5.2.10b.	No antibiotics used the recent cycles.			
5.2.10	the antibiotic load [92] is at least 15% less that of the average of the two previous production cycles Requirement: Yes [93]	b. Calculate antibiotic load (antibiotic load = the sum of the total amount of active ingredient of antibiotic used in kg) for most recent production cycle and for the two previous production cycles. For first audit, calculation must cover one full production cycle immediately prior to the current cycle.	No antibiotics used the recent cycles.	N/A	No antibiotics used	
	Applicability: All	c. Provide the auditor with calculations showing that the antibiotic load of the most recent production cycle is at least 15% less than that of the average of the two previous production cycles.	No antibiotics used the recent cycles.			
		d. Submit data on antibiotic load to ASC as per Appendix VI (if applicable) for each production cycle.	Submitted to ASC in email dt.22.05.18			
Footnote		[92] Antibiotic load = the sum of the tot	al amount of active ingredient of antibiotics used (kg).			



Footnote	[93] Reduction in load	d required, regardless of whether production increases on the site. Farms that consolidate production	duction across multiple sites within an ABM can calculate reduction based on the combined anti	biotic load of t	he consolidated sites.	
E241		a. Prepare a procedure which outlines how the farm provides buyers [94] of its salmon with a list of all therapeutants used in production (see 4.4.3b).	Internal Procedure in QMS Traceability procedure defines information flow within the company. Procedure "Prosedyre for utarbeidelse av sporingsdokument på fisk (CV), ID 484, d.t 27.10.2017 Data from "Product control and tracebility" all treatments, included anaesthetics used, dates withdrawal time etc Seen mail d.t 28.05.18 regarding CV on harvest cage	Compliant		
		b. Maintain records showing the farm has informed all buyers of its salmon about all therapeutants used in production.	Internal Procedure in QMS Traceability procedure defines information flow within the company. Procedure "Prosedyre for utarbeidelse av sporingsdokument på fisk (CV), ID 484, d.t 27.10.2017 Data from "Product control and tracebility" all treatments, included anaesthetics used, dates withdrawal time etc Seen mail d.t 28.05.18 regarding CV on harvest cage	Compilant		
Footnote			e farm or the producing company is directly selling its product. uses and bacteria to medicinal treatments			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
5.3.1	Indicator: Bio-assay analysis to determine resistance when two applications of a treatment have not produced the expected effect	Instruction to Clients for Indicator 5.3.1 - Identifying the 'Expected Effect' of Medicinal Treat Indicator 5.3.1 requires that farms identify treatments that have not produced the expected e condition and type of medicinal treatment. Therefore farms and auditors will need to review to for treatment. Example: sea lice treatment with emamectin benzoate The SAD SC recommends that a typical baseline for effectiveness of emamectin benzoate is a movement has produced the expected effect, farm and auditor must review pre- and treatment did not produce the expected effect and a bio-assay should be performed to determine the season of the seaso	ffect. The SAD Steering Committee recognizes that the "expected effect" will vary with health the pre- and post-treatment condition of fish in order to understand and evaluate the impact minimum of 90 percent reduction in abundance of lice on the farmed fish. To determine post-treatment lice counts. If the calculated percent reduction in lice is < 90% then the mine whether sea lice have developed resistance.			
3.3.1	Requirement: Yes Applicability: All	a. In addition to recording all therapeutic treatments (5.2.1a), keep a record of all cases where the farm uses two successive medicinal treatments.	No consecutive treatments done in present cycle without desired effect.			
		b. Whenever the farm uses two successive treatments, keep records showing how the farm evaluates the observed effect of treatment against the expected effect of treatment.	No consecutive treatments done in present cycle without desired effect.	N/A	No consecutive treatments done in present cycle without desired effect.	
		c. For any result of 5.3.1b that did not produce the expected effect, ensure that a bio-assay analysis of resistance is conducted.	No consecutive treatments done in present cycle without desired effect.		сусле without desired effect.	
		d. Keep a record of all results arising from 5.3.1c.	No consecutive treatments done in present cycle without desired effect.			
537	Indicator: When bio-assay tests determine resistance is forming, use of an alternative, permitted treatment, or an immediate harvest of all fish on the site	a. Review results of bio-assay tests (5.3.1d) for evidence that resistance has formed. If yes, proceed to 5.3.2b. If no, then Indicator 5.3.2 is not applicable.	No consecutive treatments done in present cycle without desired effect.	N/Δ	No consecutive treatments done in present	



ع.ن.د	Requirement: Yes Applicability: All	b. When bio-assay tests show evidence that resistance has formed, keep records showing that the farm took one of two actions: - used an alternative treatment (if permitted in the area of operation); or - immediately harvested all fish on site.	No consecutive treatments done in present cycle without desired effect.	l wa	cycle without desired effect.	
		Criterion 5.4 Biosecu	rity management [95]			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[95] See Appendix VI for trai	nsparency requirements for 5.4.2 and 5.4.4.			
	Indicator: Evidence that all salmon on the site are a	a. Keep records of the start and end dates of periods when the site is fully fallow after harvest.	In Fish Talk and stocking/harvest reports: Fallowing periode between 15G and 17G: 27.03.17 to 29.05.17			
5.4.1	single-year class [96] Requirement: 100% [97]	b. Provide evidence of stocking dates (purchase receipts, delivery records) to show that there were no gaps > 6 months for smolt inputs for the current production cycle.	In Fish Talk and stocking/harvest reports. First stocking date 17G: 30.05.17 Last stocking date 17G:.23.09.17	Compliant		100 %
	Applicability: All farms except as noted in [97]	-	Ova CVs, Smolt CVs, smolts health cerificates, all information available in Fishtalk.			
Footnote		[96] Gaps of up to six months between inputs of smolts derived from the same strippi	ng are acceptable as long as there remains a period of time when the site is fully fallow after ha	rvest.		
Footnote	[97] Exception is allowed for: 1) farm sites that have closed, contained production units where there is complete separation of water between units and no sharing of filtration systems or other systems that could spread disease, or, 2) farm sites that have ≥95% water recirculation, a pre-entry disease screening protocol, dedicated quarantine capability and biosecurity measures for waste to ensure there is no discharge of live biological material to the natural environment (e.g. UV or other effective treatment of effluent).					
		a. For mortality events logged in 5.1.4a, show evidence that the farm promptly evaluated each to determine whether it was a statistically significant increase over background mortality rate on a monthly basis [98]. The accepted level of significance (for example, p < 0.05) should be agreed between farm and CAB.	Continuos evaluation. No events of UIA category mortality categorised nor suspected at farm. Ref to indicator 5.1.4a for details of monitoring.			
	Indicator: Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm experiences unexplained increased mortality, [98] the	b. For mortality events logged in 5.1.4a, record whether the farm did or did not suspect (yes or no) an unidentified transmissible agent.	Continuous evaluation. No events of UIA category mortality categorised nor suspected at farm. Ref to indicator 5.1.4a for details of monitoring. System available for prompt publication in website www.cermaq.no.	Compliant		
5.4.2	farm has: 1. Reported the issue to the ABM and to the appropriate regulatory authority 2. Increased monitoring and surveillance [99] on the farm and within the ABM 3. Promptly [100] made findings publicly available	c. Proceed to 5.4.2d if, during the most recent production cycle, either: - results from 5.4.2a showed a statistically significant increase in unexplained mortalities; or - the answer to 5.4.2b was 'yes'. Otherwise, Indicator 5.4.2 is not applicable.	Continuous evaluation. No events of UIA category mortality categorised nor suspected at farm. Ref to indicator 5.1.4a for details of monitoring. System available for prompt publication in website www.cermaq.no.			
	Requirement: Yes Applicability: All	d. If required, ensure that the farm takes and records the following steps: 1) Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available.	Continuous evaluation. No events of UIA category mortality categorised nor suspected at farm. Ref to indicator 5.1.4a for details of monitoring. System available for prompt publication in website www.cermaq.no.			
		e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).	Continuous evaluation. No events of UIA category mortality categorised nor suspected at farm. Ref to indicator 5.1.4a for details of monitoring. System available for prompt publication in website www.cermaq.no.			
Footnote		[98] Increased mortality: A statistically sign	ificant increase over background rate on a monthly basis.			
Footnote		[99] Primary aim of monitoring and surveillance is to	investigate whether a new or adapted disease is present in the area.			
Footnote		[100]	Within one month.			
	[100] Within the month.					



5.4.3	Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] 5.4.3 Requirement: Yes	Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health Co Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal I practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standard aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = not pathogen]]. An aggressive response will involve, at a minimum, the following actions: - depopulation of the infected site; - implementation of quarantine zones (see note below) in accordance with guidelines from OI-additional actions as required under Indicator 5.4.4. To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how fadeveloping relevant policies and procedures and integrating them into the farm's fish health month of the Steering Committee recognizes that establishment of quarantine zones will likely into not necessarily all, of the ABM.	Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm I, this means that the farm must have written procedures stating how the farm will initiate an previously found in the area or had been fully eradicated (area declared free of the E for the specific pathogen; and Improvides the other procedures are consistent with the intentions of the OIE Aquatic Animal Health Code by lanagement plan.			
	Applicability: All	a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version.	OIE AAHC presented and awareness demonstrated. Awareness of OIE aquatic Animal Health Code. VHP "Helseplan for matfiskanlegg" refers to OIE Aquatic Animal Health Code. Internal procedure in Intelex on practices in accordance with OIE AHC" Described in VHP,			
		b. Develop policies and procedures as needed to ensure that farm practices remain consistent with the OIE Aquatic Animal Health Code (5.4.3a) and with actions required under indicator 5.4.4.	notification of diseases, contingency plan (Beredskapsplan for Cermaq, d.t. 27.03.2018, ID 1154) "Notification of diseases". Statment from Cermaq, Adhernce to the OIE Aquatiq, Health Code" d.t 18.01.2018, signed fish healh manager Karl Fredrik Ottem	Compliant		
		-	Confirmed during interviews			
Footnote		rent with the intentions of the Code, to be further outlined in auditing guidance. For purposes o guidelines from OIE for the specific pathogen. Quarantine zones will likely incorporate mandato fully eradicated (ar				
Footnote		[102] OIE 2011. Aquatic Animal He	alth Code. http://www.oie.int/index.php?id=171.			
		a. Ensure that farm policies and procedures in 5.4.3a describe the four actions required under Indicator 5.4.4 in response to an OIE-notifiable disease on the farm.	Fish health manager has the responsibility to inform governments if notifiable diseases occur.			
	Indicator: If an OIE-notifiable disease [103] is confirmed on the farm, evidence that: 1. the farm has, at a minimum, immediately culled the	b. Inform the CAB if an OIE-notifiable disease has been confirmed on the farm during the current production cycle or the two previous production cycles. If yes, proceed to 5.4.4c. If no, then 5.4.4c an 5.4.4d do not apply.	No occurrence of OIE-notifiable diseases.			
5.4.4	pen(s) in which the disease was detected 2. the farm immediately notified the other farms in the ABM [104] 3. the farm and the ABM enhanced monitoring and conducted rigorous testing for the disease 4. the farm promptly [105] made findings publicly available	c. If an OIE-notifiable disease was confirmed on the farm (see 5.4.4b), then retain documentary evidence to show that the farm: 1) immediately culled the pen(s) in which the disease was detected; 2) immediately notified the other farms in the ABM [104] 3) enhanced monitoring and conducted rigorous testing for the disease; and 4) promptly (within one month) made findings publicly available.	No occurrence of OIE-notifiable diseases.	N/A	No occurrence of OIE-notifiable diseases.	
	Requirement: Yes Applicability: All	d. As applicable, submit data to ASC as per Appendix VI about any OIE-notifiable disease that was confirmed on the farm. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).	No occurrence of OIE-notifiable diseases.			
		-	No occurrence of OIE-notifiable diseases.			



Footnote	[103] At the time of publication of the final draft sta	ndards, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic haematopoietic	necrosis, Infectious haematopoietic necrosis (IHN), Infectious salmon anemia (ISA), Viral hemo	rrhagic septicen	nia (VHS) and Gyrodactylosis (Gyrodactylus sal	laris).		
Footnote		[104] This is in addition to any notifications to regulatory bodies required under law and the OIE Aquatic Animal Health Code.						
Footnote		[105	Within one month.					
			who is a lead auditor in conformity with SAAS Procedure 200 section 3.1.					
PRINCIPLE 6:	: DEVELOP AND OPERATE FARMS IN A SOCIALLY RESPONSI		and collective bargaining [106]					
		· · · · · · · · · · · · · · · · · · ·	ce Criteria					
Footnote	[:	[106] Bargain collectively: A voluntary negotiation between employers and organizations of wor	kers in order to establish the terms and conditions of employment by means of collective (writt	en) agreements				
		a. Workers have the freedom to join any trade union, free of any form of interference from employers or competing organizations set up or backed by the employer. Farms shall prepare documentation to demonstrate to the auditor that domestic regulation fully meets these criteria.	The Freedom of Association is stated in mail labour law. Workers have fully implemented right of Freedom of association. Employer makes no interference to decisions of workers. 50% of employees organised.					
6.1.1	Indicator: Evidence that workers have access to trade unions (if they exist) and union representative(s) chosen by themselves without managerial interference Requirement: Yes	b. Union representatives (or worker representatives) are chosen by workers without managerial interference. ILO specifically prohibits "acts which are designated to promote the establishment of worker organizations or to support worker organizations under the control or employers or employers' organizations."	Worker representative of TU was elected during meeting of employees in 2018-05-07 and 14. Svein Hugo Hansen - Worker representative for Finmark. Oysten Karlsen - Safety representative for at site land base.	Compliant		100 %		
	Applicability: All	c. Trade union representatives (or worker representatives) have access to their members in the workplace at reasonable times on the premises.	TU representative have meetings with management for coordination. The workers are visited case by case. The rest of the time open channel by phone and e-mail. If there is request visits to sites will be organised without obstacles.					
		d. Be advised that workers and union representatives (if they exist) will be interviewed to confirm the above.	Interview has confirmed information. The TU representative has possibility to visit farms. Management is encouraging to be organised.					
	Indicator: Evidence that workers are free to form	a. Employment contract explicitly states the worker's right of freedom of association.	The job contracts do not specifically states the right of freedom of association but it has reference to labour law and Tariff agreement. Both of documents state that right.					
6.1.2	organizations, including unions, to advocate for and protect their rights Requirement: Yes	b. Employer communicates that workers are free to form organizations to advocate for and protect work rights (e.g. farm policies on Freedom of Association; see 6.12.1).	Employer has created WEB based Personal handbook and Ethical guidelines (last revision 2015-12-14) those documents have stated the right of association.	Compliant				
	Applicability: All	c. Be advised that workers will be interviewed to confirm the above.	Interview confirms communication with exception of one temporary worker. All workers confirmed free possibilities to be organised.					
6.1.3	Indicator: Evidence that workers are free and able to bargain collectively for their rights	a. Local trade union, or where none exists a reputable civil-society organization, confirms no outstanding cases against the farm site management for violations of employees' freedom of association and collective bargaining rights.	Trade union representative confirms no outstanding cases against the farm site management for violations to the right of Freedom of associations.	Compliant				
	Requirement: Yes Applicability: All	b. Employer has explicitly communicated a commitment to ensure the collective bargaining rights of all workers.	Collective bargaining is implemented via consultations and Tariff agreement with Trade unions.					
		c. There is documentary evidence that workers are free and able to bargain collectively (e.g. collective bargaining agreements, meeting minutes, or complaint resolutions).	Now in power Tariff agreement for period 2016 end 2018.					
			2 Child labor ce Criteria					



6.2.1	Indicator: Number of incidences of child [107] labor [108] Requirement: None	a. In most countries, the law states that minimum age for employment is 15 years. There are two possible exceptions: - in developing countries where the legal minimum age may be set to 14 years (see footnote 108); or - in countries where the legal minimum age is set higher than 15 years, in which case the legal minimum age of the country is followed. If the farm operates in a country where the legal minimum ages is not 15, then the employer shall maintain documentation attesting to this fact.	Requirements of standard applies	Compliant		0
	Applicability: All except as noted in [107]	b. Minimum age of permanent workers is 15 or older (except in countries as noted above).	At the audit time none of young workers are employed.			
		c. Employer maintains age records for employees that are sufficient to demonstrate compliance.	The age records are in place			
Footnote	[107] Child: Any person under 15 ye	ars of age. A higher age would apply if the minimum age law of an area stipulates a higher age for	or work or mandatory schooling. Minimum age may be 14 if the country allows it under the de	veloping countr	ry exceptions in ILO convention 138.	
Footnote		[108] Child Labor: Any work by a child yo	unger than the age specified in the definition of a child.			
		a. Young workers are appropriately identified in company policies & training programs, and job descriptions are available for all young workers at the site.	The procedure for Young workers ID 147 rev. 12, 2017-05-30 is developed. Personal training to be done for each young worker indicating allowed and forbidden works.			
	Indicator: Percentage of young workers [109] that are protected [110]	b. All young workers (from age 15 to less than 18) are identified and their ages are confirmed with copies of IDs.	Identification process in place.			
		c. Daily records of working hours (i.e. timesheets) are available for all young workers.	Time sheets are maintained.			
6.2.2	Requirement: 100% Applicability: All	d. For young workers, the combined daily transportation time and school time and work time does not exceed 10 hours.	Young workers were employed in summer 2017. No young workers employed during the audit. (Working 7,5 hours per day.) Young workers were worked 7 days in a row. In two calendar weeks. For next employments the approval from local authorities should be provided.	Compliant		N/A
		e. Young workers are not exposed to hazards [111] and do not perform hazardous work [112]. Work on floating cages in poor weather conditions shall be considered hazardous.	Personal risk assessment was done for young workers indicating forbidden works as per procedure for Young workers ID 147 with risk evaluation template ID 371. The assessment of young workers of last period is available.			
		f. Be advised that the site will be inspected and young workers will be interviewed to confirm compliance.	Site was inspected. No interviews were conducted as no young workers are employed during the audit.			
Footnote		[109] Young Worker: Any worker between th	ne age of a child, as defined above, and under the age of 18.			
Footnote	[110] Protected: Workers between 1	5 and 18 years of age will not be exposed to hazardous health and safety conditions; working he	ours shall not interfere with their education and the combined daily transportation time and sc	hool time, and	work time shall not exceed 10 hours.	
Footnote		[111] Hazard: The inherent potential to cause injury or damage to a person's health (e	.g., unequipped to handle heavy machinery safely, and unprotected exposure to harmful chem	icals).		
Footnote	[112] Hazardous work: Work th	nat, by its nature or the circumstances in which it is carried out, is likely to harm the health, safet	ty or morals of workers (e.g., heavy lifting disproportionate to a person's body size, operating h	leavy machinery	y, exposure to toxic chemicals).	
			nded or compulsory labor			
		Compliance			T	т
		 a. Contracts are clearly stated and understood by employees. Contracts do not lead to workers being indebted (i.e. no 'pay to work' schemes through labor contractors or training credit programs). 	Contracts are understood. Contracts do not lead to workers being indebted. Trainings are paid by the company without obligations from workers to compensate if they are leaving the company.			
	Indicator: Number of incidences of forced, [113] bonded	b. Employees are free to leave workplace and manage their own time.	After shift workers are free to leave			
6.3.1	[114] or compulsory labor		No cases identified.	Compliant		0
	Applicability: All	d. Employer does not withhold any part of workers' salaries, benefits, property or documents in order to oblige them to continue working for employer.	No cases identified.			
		e. Employees are not to be obligated to stay in job to repay debt.	No cases identified.			



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		f. Maintain payroll records and be advised that workers will be interviewed to confirm the above.	Interview has confirmed information. Payroll records are maintained.			
Footnote	[113] Forced (Compulsory) labor: All work or service that		red himself/herself voluntarily or for which such work or service is demanded as a repayment on of movement (e.g., withholding of identity documents).	f debt. "Penalty	" can imply monetary sanctions, physical puni	shment, or
Footnote		[114] Bonded labor: When a person is forced by the empl	oyer or creditor to work to repay a financial debt to the crediting agency.			
			crimination [118]			
		Complian	ce Criteria			
Footnote	[115] Discrimination: Any distinction, exclusion or pref		very distinction, exclusion or preference constitutes discrimination. For instance, a merit- or pe retain underrepresented groups may be legal in some countries.	formance-base	ed pay increase or bonus is not by itself discrim	ninatory.
		a. Employer has written anti-discrimination policy in place, stating that the company does not engage in or support discrimination in hiring, remuneration, access to training, promotion, termination or retirement based on race, caste, national origin, religion, disability, gender, sexual orientation, union membership, political affiliation, age or any other condition that may give rise to discrimination.	Ethical guidelines (last revision 2015-12-14) and Whistle blowing procedure (2014-05-27).			
	Indicator: Evidence of comprehensive [116] and proactive anti-discrimination policies, procedures and practices	b. Employer has clear and transparent company procedures that outline how to raise, file, and respond to discrimination complaints.	Whistle blowing procedure (2017-08-16) is implemented. No discrimination cases reported. The complaints are managed according Conflict management procedure ID 429 last rev. 2017-02-25.			
6.4.1	Requirement: Yes Applicability: All	c. Employer respects the principle of equal pay for equal work and equal access to job opportunities, promotions and raises.	The equal access to job opportunities is provided. The equal pay principle is followed. The job vacancies are published on intranet. The Tariff agreement defines local salary grades and payment condition equal for all employees to get same salary for the same job and taking into consideration experience.	Compliant		
		d. All managers and supervisors receive training on diversity and non-discrimination. All personnel receive non-discrimination training. Internal or external training acceptable if proven effective.	The trainings are included in competence list The training for site manager was held on 2016- 06-16, for workers: 2018-04-24 and 2018-05-19.			
Footnote	[116] Employers shall have written anti-discrimination po		ration, access to training, promotion, termination or retirement based on race, caste, national cer er condition that may give rise to discrimination.	rigin, religion, o	disability, gender, sexual orientation, union me	embership,
	Indicator: Number of incidences of discrimination	a. Employer maintains a record of all discrimination complaints. These records do not show evidence for discrimination.	No cases identified.			
6.4.2	Requirement: None Applicability: All	b. Be advised that worker testimonies will be used to confirm that the company does not interfere with the rights of personnel to observe tenets or practices, or to meet needs related to race, caste, national origin, religion, disability, gender, sexual orientation, union membership, political affiliation or any other condition that may give rise to discrimination.	The rights of employees are respected. During interview no discrimination cases reported	Compliant		0
			onment health and safety			
	Indicator: Percentage of workers trained in health and	a. Employer has documented practices, procedures (including emergency response procedures) and policies to protect employees from workplace hazards and to minimize risk of accident or injury. The information shall be available to employees.	Documentation is developed and is available in working places. NC evidence: Expired components of first aid kits, expired eye washing liquid, missing MSDS for some of chemicals.		The inefficient implementation of H&S procedures for monitoring and maintaining	
6.5.1	safety practices, procedures [117] and policies on a yearly basis	b. Employees know and understand emergency response procedures.	Employees know emergency respond procedures. The training records are kept on site.	Minor	safety equipment and documentation like MSDS, first aid kits, eye washing liquid.	100 %
	Requirement: 100% Applicability: All	c. Employer conducts health and safety training for all employees on a regular basis (once a year and immediately for all new employees), including training on potential hazards and risk minimization, Occupational Safety and Health (OSH) and effective use of PPE.	Employees are trained and annual refreshment trainings. Procedure for conducting the drills (ID 1126, 2017-11-02) is implemented. Safety drills were organised on site on 2018-03-28 and 2018-04-04. Content fire in the engine room.		Closed - 21.06.18 DP: NC is closed based on provided pictures and documents.	
Footnote		[117] Health and safety training shall in	clude emergency response procedures and practices.			
		a. Employer maintains a list of all health and safety hazards (e.g. chemicals).	The List of health and safety hazards is maintained in H&S risk assessment documentation.			



6.5.2	Indicator: Evidence that workers use Personal Protective Equipment (PPE) effectively Requirement: Yes Applicability: All	b. Employer provides workers with PPE that is appropriate to known health and safety hazards. c. Employees receive annual training in the proper use of PPE (see 6.5.1c). For workers who participated in the initial training(s) previously an annual refreshment training may suffice, unless new PPE has been put to use. d. Be advised that workers will be interviewed to confirm the above.	PPE is provided. NC evidence: Inspection of First Aid kits on-site. The training in proper use of PPE use is done. Interview confirms PPE management.	Compliant	
6.5.3	Indicator: Presence of a health and safety risk assessment and evidence of preventive actions taken	a. Employer makes regular assessments of hazards and risks in the workplace. Risk assessments are reviewed and updated at least annually (see also 6.5.1a). b. Employees are trained in how to identify and prevent known hazards and risks (see also	The procedure for risk assessment No 366 is implemented in 2017-03-17. Last review of risks assessment took place in April 2018. Employees are trained and annual refreshment trainings are organised during risk analysis. Training records are maintained. Last evaluation of the H&S risks and the training for employees took place April 2018	Compliant	
0.5.5	Requirement: Yes Applicability: All	c. Health and safety procedures are adapted based on results from risk assessments (above) and changes are implemented to help prevent accidents.	The safe job analysis is done prior to all major works on the site with definitions of risks and their management measures. Monthly H&S committee meetings are discussing the need to update the procedures based on practices or OHS incidents accidents. Minutes of meetings are maintained. The site manager has possibility to suggest changes to procedure.	Compliant	
	Indicator: Evidence that all health- and safety-related accidents and violations are recorded and corrective	a. Employer records all health- and safety-related accidents. b. Employer maintains complete documentation for all occupational health and safety violations and investigations.	Company level electronic database INTELEX is used to report for all H&S and environmental accidents and near accidents. Monthly H&S report is generated. Sites have monthly discussions on H&S accidents, incidents and near misses form site and the report. Company level electronic database INTELEX is managed with records for all H&S and environmental accidents and near accidents and their investigation.		
6.5.4	actions are taken when necessary Requirement: Yes Applicability: All	c. Employer implements corrective action plans in response to any accidents that occur. Plans are documented and they include an analysis of root cause, actions to address root cause, actions to remediate, and actions to prevent future accidents of similar nature.	Corrective action plans are managed by INTELEX.	Compliant	
		 d. Employees working in departments where accidents have occurred can explain what analysis has been done and what steps were taken or improvements made. 	The analysis is understood and improvements are implemented.		
6.5.5	Indicator: Evidence of employer responsibility and/or proof of insurance (accident or injury) for 100% of worker costs in a job-related accident or injury when not covered under national law Requirement: Yes Applicability: All	a. Employer maintains documentation to confirm that all personnel are provided sufficient insurance to cover costs related to occupational accidents or injuries (if not covered under national law). Equal insurance coverage must include temporary, migrant or foreign workers. Written contract of employer responsibility to cover accident costs is acceptable evidence in place of insurance.	Insurance is provided. Temporary employees are provided with accident insurance.	Compliant	
	Indicator: Evidence that all diving operations are	Note: If the farm outsources its diving operations to an independent company, the farm shall compliance with Indicator 6.5.6. It is the farm's responsibility to obtain copies of relevant documents.			
6.5.6	conducted by divers who are certified Requirement: Yes	Employer keeps records of farm diving operations and a list of all personnel involved. In case an external service provider was hired, a statement that provider conformed to all relevant criteria must be made available to the auditor by this provider.	The diving activities procedure is in use (rev. 2016-06-29). The records of diving activities maintained on site. The check list was introduced to check information/documents prior to diving.	Compliant	100 %
	Applicability: All	or international organization for diver certification.	Copies of divers' certificates are maintained.		
		Criterion	6.6 Wages		



					T	
I		Complian	ce Criteria			
	Indicator: The percentage of workers whose basic wage	a. Employer keeps documents to show the legal minimum wage in the country of operation. If there is no legal minimum wage in the country, the employer keeps documents to show the industry-standard minimum wage.	Documents are available at the company. The Tariff agreement sets the minimum salary.			
6.6.1	[118] (before overtime and bonuses) is below the minimum wage [119] Requirement: 0 (None) Applicability: All	b. Employer's records (e.g. payroll) confirm that worker's wages for a standard work week (\$\(48\) hours) always meet or exceed the legal minimum wage. If there is no legal minimum wage, the employer's records must show how the current wage meets or exceeds industry standard. If wages are based on piece-rate or pay-per-production, the employer's records must show how workers can reasonably attain (within regular working hours) wages that meet or exceed the legal minimum wage.	Wages meet legal minimum wage according Tariff agreement and contracts with local trade unions.	Compliant		0 %
		c. Maintain documentary evidence (e.g. payroll, timesheets, punch cards, production records, and/or utility records) and be advised that workers will be interviewed to confirm the above.	The information is available per employee. Documentary evidence is in place.			
Footnote		[118] Basic wage: The wages paid for	a standard working week (no more than 48 hours).			
Footnote		[119] If there is no legal minimum wage in a count	ry, basic wages must meet the industry-standard minimum wage.			
	Indicator: Evidence that the employer is working toward the payment of basic needs wage [120]	a. Proof of employer engagement with workers and their representative organizations, and the use of cost of living assessments from credible sources to assess basic needs wages. Includes review of any national basic needs wage recommendations from credible sources such as national universities or government.	The assessment of cost of living were conducted.			
6.6.2	Requirement: Yes Applicability: All	b. Employer has calculated the basic needs wage for farm workers and has compared it to the basic (i.e. current) wage for their farm workers.	The calculations and comparison are done. The comparison with wages was conducted. The company wages are above BNW.	Compliant		
		c. Employer demonstrates how they have taken steps toward paying a basic needs wage to their workers.	Wages exceed basic needs wage.			
Footnote	[120] Basic needs v	vage: A wage that covers the basic needs of an individual or family, including housing, food and	transport. This concept differs from a minimum wage, which is set by law and may or may not	cover the basic	needs of workers.	
		a. Wages and benefits are clearly articulated to workers and documented in contracts.	The contracts of employees has appendix defining the bonus application. The bonuses are defined in Bonus document.			
	Indicator: Evidence of transparency in wage-setting and rendering [121]	b. The method for setting wages is clearly stated and understood by workers.	The clearly understood by workers.			
6.6.3	Requirement: Yes Applicability: All	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment.	Wages are transferred to personal bank accounts	Compliant		
		d. Be advised that workers will be interviewed to confirm the above.	Interview has confirmed information about wages			
Footnote			dered to workers in a convenient manner.			
		Criterion 6.7 Contracts (lab Complian	or) including subcontracting		T T	
	Indicator: Percentage of workers who have contracts [122]	a. Employer maintains a record of all employment contracts.	Contracts available, records maintained.			
6.7.1	Requirement: 100%	b. There is no evidence for labor-only contracting relationships or false apprenticeship schemes.	No evidences	Compliant		100 %
	Applicability: All	c. Be advised that workers will be interviewed to confirm the above.	Interview confirms legal employment by contracts.			



Footnote		ny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practice of hir orkers. Labor-only contracting arrangement: The practice of hiring workers without establishing required benefits, such as health and safety protections.				
	Indicator: Evidence of a policy to ensure social compliance of its suppliers and contractors	a. Farm has a policy to ensure that all companies contracted to provide supplies or services (e.g. divers, cleaning, maintenance) have socially responsible practices and policies.	The Ethical and corporate responsibility policy has statements of evaluation of suppliers and subcontractors. Procedure for Classification of suppliers ID 644 rev.3 2016-06-13 is used for dividing to critical or non-critical suppliers.			
6.7.2	Requirement: Yes Applicability: All	b. Producing company has criteria for evaluating its suppliers and contractors. The company keeps a list of approved suppliers and contractors.	Supplier qualification procedure ID316 applies. The evaluation criteria is defined in procedure of classification of suppliers and sub-contractors. The suppliers evaluation matrix was created.	Compliant		
		c. Producing company keeps records of communications with suppliers and subcontractors that relate to compliance with 6.7.2.	The reference to Ethical guidelines for suppliers was sent to suppliers and subcontractors.			
		Criterion 6.8 C	onflict resolution			
		Complian	ce Criteria			
	Indicator: Evidence of worker access to effective, fair and confidential grievance procedures	a. Employer has a clear labor conflict resolution policy for the presentation, treatment, and resolution of worker grievances in a confidential manner.	Procedure of Conflict resolution (2015-02-18) defines ways of communication of conflicts. Whistle blowing procedure is developed, which is included in Personnel handbook. Conflict management procedure ID 429 last rev. 2017-02-25 is defined.			
6.8.1	Requirement: Yes	b. Workers are familiar with the company's labor conflict policies and procedures. There is evidence that workers have fair access.	Workers are familiar with procedures for conflict resolution.	Compliant		
	Applicability: All	c. Maintain documentary evidence (e.g. complaint or grievance filings, minutes from review meetings) and be advised that workers will be interviewed to confirm the above.	The interviews are confirming the information above.			
	Indicator: Percentage of grievances handled that are addressed [123] within a 90-day timeframe	a. Employer maintains a record of all grievances, complaints and labor conflicts that are raised.	The system of handling of grievances, complaints and labour conflicts is in place and effective.			
6.8.2	Requirement: 100%	b. Employer keeps a record of follow-up (i.e. corrective actions) and timeframe in which grievances are addressed.	The system of handling of grievances, complaints and labour conflicts is in place. Documentation is maintained. No conflicts had place.	Compliant		100 %
	Applicability: All	c. Maintain documentary evidence and be advised that workers will be interviewed to confirm that grievances are addressed within a 90-day timeframe.	No cases identified at the farm.			
Footnote			the company's process for grievances, corrective action taken when necessary.			
			ciplinary practices ce criteria		T	
	Indicator: Incidences of excessive or abusive disciplinary actions	a. Employer does not use threatening, humiliating or punishing disciplinary practices that negatively impact a worker's physical and mental health or dignity.	The employer does not use excessive or abusive disciplinary actions. No cases of improper disciplinary behaviour, no warnings were issued.			
6.9.1	Requirement: None	b. Allegations of corporeal punishment, mental abuse [124], physical coercion, or verbal abuse will be investigated by auditors.	No cases identified.	Compliant		0
	Applicability: All	c. Be advised that workers will be interviewed to confirm there is no evidence for excessive or abusive disciplinary actions.	Interview has confirmed no cases of improper disciplinary behaviour.			
Footnote		[124] Mental Abuse: Characterized by the intentional use of power, including	verbal abuse, isolation, sexual or racial harassment, intimidation or threat of physical force.			
	Indicator: Evidence of a functioning disciplinary action policy whose aim is to improve the worker [125]	a. Employer has written policy for disciplinary action which explicitly states that its aim is to improve the worker [125].	Disciplinary policy is defined in Personal handbook. The verbal and written disciplinary warnings may be used in case of misbehaviour during the work. No cases identified.			
6.9.2	Requirement: Yes Applicability: All	b. Maintain documentary evidence (e.g. worker evaluation reports) and be advised that workers will be interviewed to confirm that the disciplinary action policy is fair and effective.	Company has the working disciplinary system. Workers confirmed understanding and fairness of disciplinary policy. Documentation is maintained.	Compliant		
Footnote	[125] If disciplinary action is required, progressive verbal	and written warnings shall be engaged. The aim shall always be to improve the worker; dismis wage deductions shall r	sal shall be the last resort. Policies for bonuses, incentives, access to training and promotions a lot be acceptable disciplinary practices.	e clearly stated	d and understood, and not used arbitrarily. Find	es or basic
		Criterion 6.10 Worki	ng hours and overtime			
		Complian	ce criteria			



		Note: Working hours, night work and rest periods for workers in agriculture should be in acco in Agriculture Convention, 2001). Additional information can be found on the website of the l	rdance with national laws and regulations or collective agreements (e.g. The Safety and Health nternational Labour Organization (www.ilo.org).			
	Indicator: Incidences, violations or abuse of working hours and overtime laws [126]	a. Employer has documentation showing the legal requirements for working hours and overtime in the region where the farm operates. If local legislation allows workers to exceed internationally accepted recommendations (48 regular hours, 12 hours overtime) then requirements of the international standards apply.	The time scheme 1:1 is used. (7 days x 10 hours and 7 days-off). It is approved by ASC. The OT limits are defined by Labour law and Tariff agreement.			
6.10.1	Requirement: None	b. Records (e.g. time sheets and payroll) show that farm workers do not exceed the number of working hours allowed under the law.	Workers are registering working hours daily into Capitech system. Site manager approves. Working hours are within allowed limits, except one case of 48.5 hours of overtime during 4 weeks.	Compliant		0
	Applicability: All	c. If an employer requires employees to work shifts at the farm (e.g. 10 days on and six days off), the employer compensates workers with an equivalent time off in the calendar month and there is evidence that employees have agreed to this schedule (e.g. in the hiring contract).	The work in shifts is applied and agreed by workers.			
		d. Be advised that workers will be interviewed to confirm there is no abuse of working hours and overtime laws.	Interview has confirmed no abuse of working time and overtime amounts.			
Footnote		[126] In cases where local legislation on working hours and overtime exceed internationally	accepted recommendations (48 regular hours, 12 hours overtime), the international standard	s will apply.		
	Indicator: Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional	a. Payment records (e.g. payslips) show that workers are paid a premium rate for overtime hours.	Overtime for workers is paid at premium rate as could be seen in payslips.			
6.10.2	circumstances Requirement: Yes	b. Overtime is limited and occurs in exceptional circumstances as evidenced by farm records (e.g. production records, time sheets, and other records of working hours).	The procedure for working hours was developed (2016-08-15). The timesheets are managed in Capitech system.	Compliant		
	Applicability: All except as noted in [130]	c. Be advised that workers will be interviewed to confirm that all overtime is voluntary except where there is a collective bargaining agreement which specifically allows for compulsory overtime.	Interviews have confirmed voluntary overtime.			
Footnote		[127] Compulsory overtime is permitted if pr	eviously agreed to under a collective bargaining agreement.			
Footnote		[128] Premium rate: A rate of pay higher than the regular work w	eek rate. Must comply with national laws/regulations and/or industry standards.			
		Criterion 6.11 Edu	ication and training			
		Complian	ce criteria			
		a. Company has written policies related to continuing education of workers. Company				
6.11.1	Indicator: Evidence that the company regularly performs training of staff in fish husbandry, general farm and fish escape management and health and safety procedures	a. Company has written pointes related to continuing education of workers. Company provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a prearranged time.	Company encourages the workers to participate in additional training based on Work environment policy. The Tariff agreement define the support that company would provide for employees.	Compliant		
6.11.1	training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes	provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a pre-	environment policy. The Tariff agreement define the support that company would provide	- Compliant		
6.11.1	training of staff in fish husbandry, general farm and fish escape management and health and safety procedures	provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a prearranged time. b. Employer maintains records of worker participation in educational opportunities as evidenced by course documentation (e.g. list of courses, curricula, certificates, degrees). c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company.	environment policy. The Tariff agreement define the support that company would provide for employees. Training records maintained on site and Intelex system. Interview confirms that company supports education initiatives.	- Compliant		
6.11.1	training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes	provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a prearranged time. b. Employer maintains records of worker participation in educational opportunities as evidenced by course documentation (e.g. list of courses, curricula, certificates, degrees). c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company. Criterion 6.12 Corporate portions and the province of the company of the c	environment policy. The Tariff agreement define the support that company would provide for employees. Training records maintained on site and Intelex system. Interview confirms that company supports education initiatives.	- Compliant		
6.11.1	training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes	provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a prearranged time. b. Employer maintains records of worker participation in educational opportunities as evidenced by course documentation (e.g. list of courses, curricula, certificates, degrees). c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company. Criterion 6.12 Corporate portions and the province of the company of the c	environment policy. The Tariff agreement define the support that company would provide for employees. Training records maintained on site and Intelex system. Interview confirms that company supports education initiatives.	Compliant		
6.11.1	training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes	provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a prearranged time. b. Employer maintains records of worker participation in educational opportunities as evidenced by course documentation (e.g. list of courses, curricula, certificates, degrees). c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company. Criterion 6.12 Corporate per Complian a. Company-level policies are in line with all social and labor requirements presented in 6.1 through 6.11.	environment policy. The Tariff agreement define the support that company would provide for employees. Training records maintained on site and Intelex system. Interview confirms that company supports education initiatives. Dicices for social responsibility ce criteria	- Compliant		
6.11.1	training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes Applicability: All Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11 above Requirement: Yes	provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a prearranged time. b. Employer maintains records of worker participation in educational opportunities as evidenced by course documentation (e.g. list of courses, curricula, certificates, degrees). c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company. Criterion 6.12 Corporate proceed as a company-level policies are in line with all social and labor requirements presented in 6.1 through 6.11. b. Company-level policies (see 6.12.1a) are approved by the company headquarters in the	environment policy. The Tariff agreement define the support that company would provide for employees. Training records maintained on site and Intelex system. Interview confirms that company supports education initiatives. Ilicies for social responsibility ce criteria Company level policies are available and are in line with requirements of the standard.	Compliant		
	training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes Applicability: All Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11 above	provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a prearranged time. b. Employer maintains records of worker participation in educational opportunities as evidenced by course documentation (e.g. list of courses, curricula, certificates, degrees). c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company. Criterion 6.12 Corporate p. Complian a. Company-level policies are in line with all social and labor requirements presented in 6.1 through 6.11. b. Company-level policies (see 6.12.1a) are approved by the company headquarters in the region where the site applying for certification is located. c. The scope of corporate policies (see 6.12.1a) covers all company operations relating to salmonid production in the region (i.e. all smolt production facilities, grow-out facilities and	environment policy. The Tariff agreement define the support that company would provide for employees. Training records maintained on site and Intelex system. Interview confirms that company supports education initiatives. Dicies for social responsibility ce criteria Company level policies are available and are in line with requirements of the standard. Policies are approved.			
	training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes Applicability: All Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11 above Requirement: Yes Applicability: All	provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a prearranged time. b. Employer maintains records of worker participation in educational opportunities as evidenced by course documentation (e.g. list of courses, curricula, certificates, degrees). c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company. Criterion 6.12 Corporate pc Complian a. Company-level policies are in line with all social and labor requirements presented in 6.1 through 6.11. b. Company-level policies (see 6.12.1a) are approved by the company headquarters in the region where the site applying for certification is located. c. The scope of corporate policies (see 6.12.1a) covers all company operations relating to salmonid production in the region (i.e. all smolt production facilities, grow-out facilities and processing plants). d. The site that is applying for certification provides auditors with access to all company-level	environment policy. The Tariff agreement define the support that company would provide for employees. Training records maintained on site and Intelex system. Interview confirms that company supports education initiatives. Ilicies for social responsibility ce criteria Company level policies are available and are in line with requirements of the standard. Policies are approved. The policies cover all company operations. The access is provided.	Compliant	uction and processing facilities.	



	BE A GOOD NEIGHBOR AND CONSCIENTIOUS CITIZEN				
			nunity engagement		
		Complian	ce Criteria		
		a. The farm pro-actively arranges for consultations with the local community at least twice every year (bi-annually).	The invitation was sent in 2018-03-26 to interested parties. The meeting was organised on 2018-04-18.		
co	ndicator: Evidence of regular and meaningful [130] consultation and engagement with community	b. Consultations are meaningful. OPTIONAL: the farm may choose to use participatory Social Impact Assessment (pSIA) or an equivalent method for consultations.	Consultations have included main points required by the standard.		
7.1.1	epresentatives and organizations Requirement: Yes	c. Consultations include participation by representatives from the local community who were asked to contribute to the agenda. $ \\$	The participants from local community have participated in consultation. They were invited to contribute to agenda.	Compliant	
	Applicability: All	d. Consultations include communication about, or discussion of, the potential health risks of therapeutic treatments (see Indicator 7.1.3).	Consultations have included main points required by the standard. Potential health risks of therapeutic treatments were mentioned during consultation meeting. The risks related to external environment and people were well defined.		
		e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above.	The invitation and minutes of meeting are available.		
		f. Be advised that representatives from the local community and organizations may be interviewed to confirm the above.	The extensive communication is completed during initial certification stage. No inquiries received. The interview was not organised due to logistics and time limitations.		
ootnote	[130] Regular and meaningful: Meetings shall be	e held at least bi-annually with elected representatives of affected communities. The agenda fo	r the meetings should in part be set by the community representatives. Participatory Social Imp	act Assessment	t methods may be one option to consider here.
		a. Farm policy provides a mechanism for presentation, treatment and resolution of complaints lodged by stakeholders, community members, and organizations.	The complaints could be delivered via company e-mail, company workers or whistle blowing channel.		
po	ndicator: Presence and evidence of an effective [131] solicy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations	b. The farm follows its policy for handling stakeholder complaints as evidenced by farm documentation (e.g. follow-up communications with stakeholders, reports to stakeholder describing corrective actions).	No complaints related to farm.	Compliant	
	Requirement: Yes	c. The farm's mechanism for handling complaints is effective based on resolution of stakeholder complaints (e.g. follow-up correspondence from stakeholders).	No complaints related to farm received.	Compilant	
A	Applicability: All	d. Be advised that representatives from the local community, including complaintants where applicable, may be interviewed to confirm the above.	The extensive communication is completed during initial certification stage. No inquiries received. The interview was not organised due to logistics and time limitations.		
ootnote		[131] Effective: In order to demonstrate that the mech	anism is effective, evidence of resolutions of complaints can be given.		
	distant Friday on that the form has past of statute	a. Farm has a system for posting notifications at the farm during periods of therapeutic treatment. (use of aneastatic baths is not regarded a therapeutant)	The signs are available.		
no	ndicator: Evidence that the farm has posted visible notice [132] at the farm during times of therapeutic reatments and has, as part of consultation with	b. Notices (above) are posted where they will be visible to affected stakeholders (e.g. posted on waterways for fishermen who pass by the farm).	Signs at site are used.		
	communities under 7.1.1, communicated about potential nealth risks from treatments	c. Farm communicates about the potential health risks from treatments during community consultations (see 7.1.1)	Communications for potential health risks took place during the consultation meeting. See 7.1.1 d) The risks related to external environment and people is not well defined.	Compliant	
	Requirement: Yes	d. Be advised that members of the local community may be interviewed to confirm the above.	The extensive communication is completed during licence processing and initial certification stage. No inquiries received. The interview was not organised due to logistics and time limitations.		
ootnote		[132] Signage shall be visible to marine	rs and, for example, to fishermen passing by the farm.		
200.000			boriginal cultures and traditional territories		
			ce Criteria		



Instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of Indigenous Groups

The ASC Salmon Standard requires that farms must be respectful of the traditional territiories of indigenous groups. The Indicators listed under Criterion 7.2 were designed to fulfill this purpose in a manner consistent with the United Nations Declaration on the Rights of Indigenous Peoples. In many locales, the territorial boundaries of indigenous groups have a defined legal status according to local or national law. In such cases, it is straightforward to know whether a farm is operating in close proximity to indigenous groups. Here ASC provides the following guidance.

The intent behind the ASC Salmon Standard is that the farm will identify all neighboring groups who are potentially negatively impacted by the farm's activities. The actual physical distance between the farm and an indigenous group is less important than understanding whether the farm is having a detrimental impact upon its neighbors. Effective community consultations are one of the best ways to identify such impacts to neighbor groups. Through a transparent process of consultation, indigenous groups who are put under "stress" by the farm will identify themselves and voice their concerns about the nature of the farm's impacts. Continued consultations between farm and neighbors should create a forum where any key issue can be discussed and resolved.

		a. Documentary evidence establishes that the farm does or does not operate in an indigenous territory (to include farms that operate in proximity to indigenous or aboriginal people [133]). If not then the requirements of 7.2.1 do not apply.	Sami traditional and indigenous groups are not involved in the site environment. All interested parties are communicated during the licence application processing to start the sites.			
	Indicator: Evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	b. Farm management demonstrates an understanding of relevant local and/or national laws and regulations that pertain to consultations with indigenous groups.	Farm management demonstrates an understanding of relevant local and national laws and regulations. No consultations are required.			
7.2.1		c. As required by law in the jurisdiction: - farm consults with indigenous groups and retains documentary evidence (e.g. meeting minutes, summaries) to show how the process complies with 7.2.1b; OR - farm confirms that government-to-government consultation occurred and obtains documentary evidence.	No specific consultations are required.	Compliant		
		d. Be advised that representatives from indigenous groups may be interviewed to confirm the above.	The extensive communication is completed during licence processing and initial certification stage. No inquiries received. The interview was not organised due to logistics and time limitations.			
7.2.2	Indicator: Evidence that the farm has undertaken proactive consultation with indigenous communities Requirement: Yes [133]	a. See results of 7.2.1a (above) to determine whether the requirements of 7.2.2 apply to the farm.	No traditional and indigenous groups are involved.	N/A		
7.2.2	Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	b. Be advised that representatives from indigenous communities may be interviewed to confirm that the farm has undertaken proactive consultations.	No traditional and indigenous groups are involved.	NyA		
Footnote		[133] All standards related to indigenous rights only	apply where relevant, based on proximity of indigenous territories.			
	Indicator: Evidence of a protocol agreement, or an active	a. See results of 7.2.1a (above) to determine whether the requirements of 7.2.3 apply to the farm.	No traditional and indigenous groups are involved.			
7.2.3	process [134] to establish a protocol agreement, with indigenous communities Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal	b. Maintain evidence to show that the farm has either: 1) reached a protocol agreement with the indigenous community and this fact is documented; or 2) continued engagement in an active process [134] to reach a protocol agreement with the indigenous community.	No traditional and indigenous groups are involved.	N/A		
	people [133]	c. Be advised that representatives from indigenous communities may be interviewed to confirm either 7.2.3b1 or b2 (above) as applicable.	No traditional and indigenous groups are involved.			
Footnote	[134] To demonstrate an active pr	rocess, a farm must show ongoing efforts to communicate with indigenous communities, an un	derstanding of key community concerns and responsiveness to key community concerns through	gh adaptive farr	n management and other actions.	
			cess to resources			
		Complian	ce Criteria			
1		a. Resources that are vital [135] to the community have been documented and are known by				
	Indicator: Changes undertaken restricting access to vital community resources [135] without community approval	the farm (i.e. through the assessment process required under Indicator 7.3.2).	during the application to get the licence to start the sites.			



	Applicability: All	c. Be advised that representatives from the community may be interviewed to confirm that the farm has not restricted access to vital resources without prior community approval.	The extensive communication is completed during licence processing and initial certification stage. No inquiries received. The interview was not organised due to logistics and time limitations.			
Footnote	[135] Vital community resources can include fro	eshwater, land or other natural resources that communities rely on for their livelihood. If a farm	m site were to block, for example, a community's sole access point to a needed freshwater reson	urce, this would	be unacceptable under the Dialogue standard	d.
7.3.2	Requirement: Yes	a. There is a documented assessment of the farm's impact upon access to resources. Can be completed as part of community consultations under 7.1.1.	It is communicated during the application processing to start the sites.	Canadiant		
7.3.2		b. Be advised that representatives from the community may be interviewed to generally corroborate the accuracy of conclusions presented in 7.3.2a.	The extensive communication is completed during licence processing and initial certification stage. No inquiries received. The interview was not organised due to logistics and time limitations.	Compliant		
A farm se	eeking certification must have documentation from all of its	smolt suppliers to demonstrate compliance with the following standards. The requirements a	RDS FOR SMOLT PRODUCTION re, in general, a subset of the standards in Principles 1 through 7, focusing on the impacts that a emi-closed systems (recirculation and flow-through). [136]	ire most relevar	nt for smolt facilities. In addition, specific stand	dards are
Footnote	[136] The SAD SC proposes this approach to addressing e		rm, the SC anticipates a system to audit smolt production facilities on site. In the meantime, farm The documentation will be reviewed as part of the audit at the grow-out facility.	ns will need to	work with their smolt suppliers to generate the	e necessary
SECTION 8: 5	STANDARDS FOR SUPPLIERS OF SMOLT		Internal supplier, Forsan			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			l
	Indicator: Compliance with local and national regulations on water use and discharge, specifically providing permits	a. Identify all of the farm's smolt suppliers. For each supplier, identify the type of smolt production system used (e.g. open, semi or closed systems) and submit this information to ASC (Appendix VI).	Semiclosed system. Submitted ASC. Confirmed by ASC in mail 22.05.18			
			Nordland Fylkeskommune dt. 19.04.16 for max 1600 MT feed / 12,2 mill smolts. Water abstraction permit from NVE, dated 28.1.2011, ref 200707783-22 Fylkesmannen Nordland discharge permit dt. 19.04.16, ref 2015/43			
8.1	related to water quality Requirement: Yes Applicability: All Smolt Producers	c. Obtain records from smolt suppliers showing monitoring and compliance with discharge laws, regulations, and permit requirements as required.	NFSA (Mattilsynet) and NFD (Fiskeridir) inspection dated 20.06.17. 01 NCs given. NCs regarding escapes net. Confirmed closed i document dt 21.07.17 Inspection NFD (Fiskeridir) dated 06.04.2018 - no NC	Compliant		
		-	Fiskeridirektoratet permit and Recipient survey performed by AkvaPlan Niva AS 27.02.17. Report no APN-8707.01 Result category 1 very good. MOM-B. Fiskeridirektoratet permit and Recipient survey performed by AkvaPlan Niva AS 13.09.17. Report no APN-0130.01 Result category 1 very good. MOM-B.			
8.2	Indicator: Compliance with labor laws and regulations .2 Requirement: Yes	Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations.	Internal suppliers statement related to relevant parts of ASC std. Dt 15.03.18. OHAS isssues, alsoin OHAS Policy. Internal OHAS inspections performed twice a year. No Inspections relating to labour conditions/issues has been held recent years.	Compliant		
		b. Keep records of supplier inspections for compliance with national labor laws and codes	No Inspections relating to labour conditions/issues has been held recent years.			
	Applicability: All Smolt Producers	(only if such inspections are legally required in the country of operation; see 1.1.3a)	nted to Principle 2			



		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
		Note: If the smolt facility has previously undertaken an independent assessment of biodiversit documents as evidence to demonstrate compliance with Indicator 8.3 as long as all componer			
8.3	grow-out facilities under 2.4.1 Requirement: Yes	a. Obtain from the smolt supplier(s) a documented assessment of the smolt site's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3.	Fiskeridirektoratet permit and Recipient survey performed by AkvaPlan Niva AS 13.09.17. Report no APN-0130.01 Result category 1 very good. MOM-B. Site Risk assessment 29.08.17 Impact assessment in license application. Environmental risks with contingency plans and references to relevant public regulations and national legislation.	Compliant	
	Applicability: All Smolt Producers	b. Obtain from the smolt supplier(s) a declaration confirming they have developed and are implementing a plan to address potential impacts identified in the assessment.	In site specific "Miljømål Settefisk" Cermaq Norway AS covering impacts defined in indicator above. Annual revision of plan," top to down" template including targets relavant for risk adressed in the assessement published 16.04.18 and smoltsites are working with site speceific plans to be finished in June 2018.		
		Instruction to Clients for Indicator 8.4 - Calculating Total Phosphorus Released per Ton of Fis Farms must confirm that each of their smolt suppliers complies with the requirement of indican release into the environment per metric ton (mt) of fish produced over a 12-month period using a "mass balance" approach. Detailed instructions and formulas are given in Appendix VII If applicable, farms may take account of any physical removals of phosphorus in the form of slother smolt supplier has records showing the total quantity of sludge removed from site over to the supplier determined phosphorus concentration (% P) in removed sludge by sampling and the sludge was properly disposed off site and in accordance with the farm's biosolid manage	ator 8.4. This specifies the maximum amount of phosphorus that a smolt production facility d. The requirement is set at 4 kg/mt. The calculation of total phosphorus released is made II-1. udge provided there is evidence to show: he relevant time period; I analyzing representative batches; and		
	Indicator: Maximum total amount of phosphorus released into the environment per metric ton (mt) of fish produced over a 12-month period (see Appendix VIII-1)	a. Obtain records from smolt suppliers showing amount and type of feeds used for smolt production during the past 12 months. b. For all feeds used by the smolt suppliers (result from 8.4a), keep records showing phosphorus content as determined by chemical analysis or based on feed supplier declaration (Appendix VIII-1).	Production reports and records in Fish Talk 897 038,5 kg feed for period 01.03.17 to 28.02.18. Biomar and Polarfeed Declaration per feed type and particle size frorm feed supplier. (Values for different feed types ranging from 1.70 to 2.0% phosphorus content		
8.4	Requirement: 4 kg/mt of fish produced over a 12-month period Applicability: All Smolt Producers	c. Using the equation from Appendix VIII-1 and results from 8.4a and b, calculate the total amount of phosphorus added as feed during the last 12 months of smolt production.	Calculated: 16666,6 kg total amount of phosphorus added as feed.		
		d. Obtain from smolt suppliers records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced (formula in Appendix VIII-1) during the past 12 months.	Records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced are available. 1 047 833 kg biomass production.	Compliant	11,6 kg P / mt
		e. Calculate the amount of phosphorus in fish biomass produced (result from 8.4d) using the formula in Appendix VIII-1.	4505 kg phosphorus in fish biomass produced. Calculations are correct.		
		f. If applicable, obtain records from smolt suppliers showing the total amount of P removed as sludge (formula in Appendix VIII-1) during the past 12 months.	No sludge produced/removed		
		g. Using the formula in Appendix VIII-1 and results from 8.4a-f (above), calculate total phosphorus released per ton of smolt produced and verify that the smolt supplier is in compliance with requirements.	Kg phosphorus released kg 15 618 Calculated: 11,6 kg P / mt. Reference is made to VR 39 on phosphorus release to sea confirmed by ASC. See www.asc-aqua.org for VR 39 determination by ASC dt.15.09.14 ted to Principle 3		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
		a. Obtain written evidence showing whether the smolt supplier produces a non-native species or not. If not, then Indicator 8.5 does not apply.	Salmo salar is native to region.		



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	Indicator: If a non-native species is being produced, the	b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1).	Salmo salar is native to region.			
	species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard	c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish.	Salmo salar is native to region.	(1		
8.5	Requirement: Yes [137] Applicability: All Smolt Producers except as noted in [137]	d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and 3) barriers ensure there are no escapes of biological material that might survive and subsequently reproduce.	Salmo salar is native to region.	N/A	Salmo salar is native to region.	
		e. Retain evidence as described in 8.5a-d necessary to show compliance of each facility supplying smolt to the farm.	Salmo salar is native to region.			
Footnote	[137] Exceptions shall be made for production syster	ns that use 100 percent sterile fish or systems that demonstrate separation from the wild by ef	fective physical barriers that are in place and well-maintained to ensure no escapes of reared spreproduce.	ecimens or bio	ological material that might survive and subseq	juently
		a. Obtain documentary evidence to show that smolt suppliers maintained monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.	No escaped according to internal statement. Internal Risk Assessment with instruction for registration and reporting. No incident reported. Verified by Fisheries Directorate escape incidents overviw (www.F.Dir.no)			
	Indicator: Maximum number of escapees [138] in the most recent production cycle	b. Using smolt supplier records from 8.6a, determine the total number of fish that escaped. Verify that there were fewer than 300 escapees from the smolt production facility in the most recent production cycle.	No incident reported. Verified by Fisheries Directorate escape incidents overviw (www.F.Dir.no)			
8.6	Requirement: 300 fish [139] Applicability: All Smolt Producers except as noted in [139]	c. Inform smolt suppliers in writing that monitoring records described in 8.6a must be maintained for at least 10 years beginning with the production cycle for which the farm is first applying for certification (necessary for farms to be eligible to apply for the exception noted in [139]).	Internal smolt supplier. All records in Fish Talk	Compliant		0
		d. If an escape episode occurs at the smolt production facility (i.e. an incident where > 300 fish escaped), the farm may request a rare exception to the Standard [139]. Requests must provide a full account of the episode and must document how the smolt producer could not have predicted the events that caused the escape episode.	Internal Risk Assessment/contingency plan with instruction for registration and reporting. No incident reported. Verified by Fisheries Directorate escape incidents overviw (www.F.Dir.no)			
Footnote		[138] Farms shall report all escapes; the total aggregate	d number of escapees per production cycle must be less than 300 fish.			
Footnote			ch exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-y Extreme weather (e.g., 100-year storms) or accidents caused by farms located near high-traffic			
8.7	Indicator: Accuracy [140] of the counting technology or counting method used for calculating the number of fish Requirement: ≥98%	a. Obtain records showing the accuracy of the counting technology used by smolt suppliers. Records must include copies of spec sheets for counting machines and common estimates of error for hand-counts.	Last secure point of counting in vaccination in FW site. Biocounter electronic counting/registartion system documents presented. Decl +/- max98% accuracy . Verified by provider specsifications.	Compliant		≥98%
	Applicability: All Smolt Producers	B. Review records to verify that accuracy of the smolt supplier's counting technology or counting method is $\geq 98\%$.	Last secure point of counting in vaccination in FW site. AquaScan electronic counting/registartion system documents presented. Decl +/- max 2%. Verified by provider specsifications.			
Footnote			nting machines and through common estimates of error for any hand counts.			
			ted to Principle 4			1
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		1	



8.8	Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from production (e.g., disposal and recycling) Requirement: Yes Applicability: All Smolt Producers	a. From each smolt supplier obtain a policy which states the supplier's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the supplier's policy is consistent with best practice in the area of operation.		Compliant		
		Note: see instructions for Indicator 4.6.1.				
		a. Obtain records from the smolt supplier for energy consumption by source (fuel, electricity) at the supplier's facility throughout each year.	Records OK in excel documents.			
	Indicator: Presence of an energy-use assessment verifying the energy consumption at the smolt production facility (see Appendix V subsection 1 for guidance and	b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year.	2017 consumption of scope 1 = 723 910 056 KJ and scope 2 = purchased electricity = 36 978 616 200 KJ. Tot Scope 1+2 = 37 702 517 256			
8.9	required components of the records and assessment) Requirement: Yes, measured in kilojoule/mt	c. Obtain records to show the smolt supplier calculated the total weight of fish in metric tons (mt) produced during the last year.	1229,0 MT kg BM produced	Compliant		
	fish/production cycle Applicability: All Smolt Producers	d. Confirm that the smolt supplier used results from 8.9b and 8.9c to calculate energy consumption on the supplier's facility as required and that the units are reported as kilojoule/mt fish/production cycle.	30 677 499 kJ/Mt BM produced	·		
		e. Obtain evidence to show that smolt supplier has undergone an energy use assessment in compliance with requirements of Appendix V-1. Can take the form of a declaration detailing a e.	Records OK in excel. Continuous evaluation.			
		Note: see instructions for Indicator 4.6.2.				
		a. Obtain records of greenhouse gas emissions from the smolt supplier's facility.	Records OK			
	Indicator: Records of greenhouse gas (GHG [141])	b. Confirm that, on at least an annual basis, the smolt supplier calculates all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.	Scope 1 on farm genereated energy= 51 102 Kg CO 2 (conv.factor is 2,53.2,67) Scope 2 emission (conv.factor 0,091) = 2 610 739,7 kg CO2. Total Scope 1+2 = 2 661 841,9 Kg CO2			
8.10	emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V, subsection 1) Requirement: Yes Applicability: All Smolt Producers	c. For GHG calculations, confirm that the smolt supplier selects the emission factors which are best suited to the supplier's operation. Confirm that the supplier documents the source of the emissions factors.	Scope 1 on farm genereated energy= 51 102 Kg CO 2 (conv.factor is 2,53.2,67) Scope 2 emission (conv,factor 0,091) = 2 610 739,7 kg CO2. Total Scope 1+2 = 2 661 841,9 Kg CO2 Calculaitons and asessment provided by CO2 focus. Data from IEA 2013, SSB 2013, IPCC 2006.	Compliant		
		d. For GHG calculations involving conversion of non-CO2 gases to CO2 equivalents, confirm that the smolt suppliers specify the Global Warming Potential (GWP) used and its source.	CO2 used			
		e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually.	Calculaitons and assessment provided by CO2 focus. Data from IEA 2013, SSB 2013, EIA 2011, IPCC 2006.			
Footnote	[141] For the purpos	es of this standard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxid	le (CO ₂); methane (CH ₄); nitrous oxide (N2O); hydrofluorocarbons (HFCs); perfluorocarbons (PF	Cs); and sulphi	ur hexafluoride (SF ₆).	
Footnote			gnized methods, standards and records as outlined in Appendix V.			
		Standards rela Compliance Criteria (Required Client Actions):	ted to Principle 5 Auditor Evaluation (Required CAB Actions):		ı ı	
		- compliance criteria (reguliea cileria reciono)?	radio Lination fredamen or proteins.	1	<u> </u>	



8.11	Indicator: Evidence of a fish health management plan, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites	Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish disease and parasites.	Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian dt 04.08.17 Karl Fredrik Ottem.	Compliant		
	Requirement: Yes Applicability: All Smolt Producers	b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's designated veterinarian.	Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian dt 04.08.17 Karl Fredrik Ottem.			
		a. Maintain a list of diseases that are known to present a significant risk in the region, developed by farm veterinarian and supported by scientific evidence.	Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian dt 04.08.17 Karl Fredrik Ottem.			
	Indicator: Percentage of fish that are vaccinated for selected diseases that are known to present a significant	b. Maintain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence.	In FHMP/VHP Ttype of disease and control monitoring strategies, vaccines/pathogens type/product name detailed in plan.			
8.12	risk in the region and for which an effective vaccine exists [143] Requirement: 100%	c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received.	In smolt CV transfered to sea at 30.05.17 and Fish Talk with dates and type for smolts for site, 100% vaccination is a legal requirement controlled by NFSA. Smolt CVs for site with ova /stripping/startfeeding dates. Vaccine Alpha Ject Micro 6, 25.04.17, supplier Pharmaq	Compliant		100 %
	Applicability: All Smolt Producers	d. Demonstrate, using the lists from 8.12a-c above, that all salmon on the farm received vaccination against all selected diseases known to present a significant risk in the regions for which an effective vaccine exists.	100% vaccinated according to national legislation. Verified in smolt CV and Fishtalk. Verified towards registrations in FHP / CV / Fishtalk. Internal supplier: All fish vaccinated with vaccine type AJ-micro-6.			
Footnote	[143] The farm's designated veterinarian is responsible	for undertaking and providing written documentation of the analysis of the diseases that pose consist	a risk in the region and the vaccines that are effective. The veterinarian shall determine which value tent with the analysis.	accinations to	use and demonstrate to the auditor that this d	lecision is
			struction to Clients for Indicator 8.13 Testing of Smolt for Select Diseases for which each smolt group should be tested. The list of diseases shall include diseases that or (and for which seawater fish-to-fish transmission is a concern).	iginate in fresh	water and are proven or suspected to occur in	seawater
8.13	Indicator: Percentage of smolt groups [144] tested for select diseases of regional concern prior to entering the grow-out phase on farm Requirement: 100%	state in fresh water is deemed to have a negative impact on the	criteria and publicly available information, which diseases should be tested for. This analysis sha he grow-out phase, thereby disqualifying a smolt group from being transferred. The analysis mures disease risk, including environment, husbandry, and host factors that might contribute to sh	ist be available	to the CAB upon request.	ogen carrier
	Applicability: All Smolt Producers	Obtain from the smolt supplier a list of diseases of regional concern for which smolt should be tested. List shall be supported by scientific analysis as described in the Instruction above.	Risk based testing regime.VHP and Veterinary visits: lists and documented according to local VHP predetermined sampling and visits regime defined in VHP plan. Sceeining programme incl. Broodfish.All internal smolt ISA and PD testing pre stocking.	Compliant		100 %
		b. Obtain from the smolt supplier(s) a declaration and records confirming that each smolt group received by the farm has been tested for the diseases in the list (8.13a).	Veterinary visits according to VHP. Smolt group health certificate. Patogen analyse, tested for PRV and ILA, report no 2017.2438-1, no positive	Compliant		100 %
Footnote	[144] A smolt group is any population that shares disease risk, including environment, husbandry and host factors that might contribute to sharing disease agents for each group. Only diseases that are proven, or suspected, as occurring in seawater (and for which seawater fish-to-fish transmission is a concern) but originating in freshwater should be on the list of diseases tested. The designated veterinarian to the smolt farm is required to evaluate, based on scientific criteria and publicly available information, which diseases should be tested for. This analysis shall include an evaluation of whether clinical disease or a pathogen carrier state in fresh water is deemed to have a negative impact on the grow-out phase, thereby disqualifying a smolt group from being transferred. A written analysis must be available to the certifier on demand.					



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8.14	Indicator: Detailed information, provided by the designated veterinarian, of all chemicals and therapeutants used during the smolt production cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated and against which diseases, proof of proper dosing and all disease and pathogens detected on the site Requirement: Yes Applicability: All Smolt Producers	a. Obtain from the smolt supplier(s) a detailed record of all chemical and therapeutant use for the fish sold to the farm that is signed by their veterinarian and includes: - name of the veterinarian prescribing treatment; - product name and chemical name; - reason for use (specific disease) - date(s) of treatment; - amount (g) of product used; - dosage; - mt of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and - the supplier of the chemical or therapeutant.	Therapeutant used, verified in fish CV also documented in FishTalk according to FHP - type, producer and batch. Prescription signed by responsible vetrinary / FHB/ Vaccines produced by Pharmaq. Therapeutant used and documented on fishgroup.	Compliant		
	Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned	a. Provide to the smolt supplier the list (see 5.2.2a) of therapeutants, including antibiotics and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing countries listed in [146].	Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked " In FHP " oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances			
	[145] in any of the primary salmon producing or importing countries [146] Requirement: Yes Applicability: All Smolt Producers	b. Inform smolt supplier that the treatments on the list cannot be used on fish sold to a farm with ASC certification.	Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked " In FHP" oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances	Compliant		
		c. Compare therapeutant records from smolt supplier (8.14) to the list $(8.15a)$ and confirm that no therapeutants appearing on the list $(8.15a)$ were used on the smolt purchased by the farm.	Vaccines in fish CV and Fish Talk - type and producer and batch. Ananesthetics and antiparasite treatment formalin, ok according to list. No AB used.			
Footnote		[145] "Banned" means proactively prohibited by	a government entity because of concerns around the substance.			
Footnote		[146] For purposes of this standard, those countries are	e Norway, the UK, Canada, Chile, the United States, Japan and France.			
8.16	Indicator: Number of treatments of antibiotics over the most recent production cycle	a. Obtain from the smolt supplier records of all treatments of antibiotics (see 8.14a).	No AB used. Seen fish CV with all treatments identifed.	- Compliant		
	Requirement: ≤ 3 Applicability: All Smolt Producers	b. Calculate the total number of treatments of antibiotics from their most recent production cycle.	No AB used. Seen fish CV with all treatments identifed.	Compliant		
	Indicator: Allowance for use of antibiotics listed as	a. Provide to smolt supplier(s) a current version of the WHO list of antimicrobials critically and highly important for human health [147].	Internal supplier List (allowed and banned substances - against WHO critical list.			0
8.17	critically important for human medicine by the WHO [147] Requirement: None [148]	b. Inform smolt supplier that the antibiotics on the WHO list (8.17a) cannot be used on fish sold to a farm with ASC certification.	Internal supplier List (allowed and banned substances - against WHO critical list.	Compliant		
	Applicability: All Smolt Producers	c. Compare smolt supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO were used on fish purchased by the farm.	No AB used. Seen fish CV with all treatments identifed.			
Footnote		[147] The 3rd edition of the WHO list of critically and highly important antimicrobials w	as released in 2009 and is available at: http://www.who.int/foodborne_disease/resistance/CIA	_3.pdf.		
Footnote		[148] If the antibiotic treatment is applied to only a portion of the pens on	a farm site, fish from pens that did not receive treatment are still eligible for certification.			
	Note: see instructions for Indicator 5.4.3 regarding evidence of compliance with the OIE Aquatic Animal Health Code.					



	Indicator: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150]	a. Provide the smolt supplier with a current version of the OIE Aquatic Animal Health Code (or inform the supplier how to access it from the internet).	Cermag Statment dt 18.01.18 on ASC requirements regarding OIE AAHC for smolt deliveries, signed by vet.responsible Karl Freedrik Ottem. Internal supplier			
8.18	Requirement: Yes Applicability: All Smolt Producers	b. Inform the supplier that an ASC certified farm can only source smolt from a facility with policies and procedures that ensure that its smolt production practices are compliant with the OIE Aquatic Animal Health Code.	Cermag Statment dt 18.01.18 on ASC requirements regarding OIE AAHC for smolt deliveries, signed by vet.responsible Karl Freedrik Ottem. Internal supplier	Compliant		
		c. Obtain a declaration from the supplier stating their intent to comply with the OIE code and copies of the smolt suppliers policies and procedures that are relevant to demonstrate compliance with the OIE Aquatic Animal Health Code.	Internal supplier			
Footnote		cent with the intentions of the Code, to be further outlined in auditing guidance. For purposes commentation of quarantine zones in accordance with guidelines from OIE for the specific pathoge				ite and
Footnote			alth Code. http://www.oie.int/index.php?id=171.			
		Standards rela Compliance Criteria (Required Client Actions):	ted to Principle 6 Auditor Evaluation (Required CAB Actions):			
	Indicator: Evidence of company-level policies and procedures in line with the labor standards under 6.1 to 6.11	a. Obtain copies of smolt supplier's company-level policies and procedures and a declaration of compliance with the labor standards under 6.1 to 6.11.	The internal Smolt supplier used: company documents apply.			
8.19	Requirement: Yes	b. Review the documentation and declaration from 8.19a to verify that smolt supplier's policies and procedures are in compliance with the requirements of labor standards under 6.1 to 6.11.	Company documents apply: the internal Smolt supplier used.	Compliant		
	Applicability: All Smolt Producers					
		Standards rela Compliance Criteria (Required Client Actions):	ted to Principle 7 Auditor Evaluation (Required CAB Actions):			
		Compliance Criteria (Required Client Actions):	Additor Evaluation (Required CAB Actions):			
8.20	Indicator: Evidence of regular consultation and engagement with community representatives and organizations Requirement: Yes	Farms must comply with Indicator 7.1.1 which requires that farms engage in regular consult equivalent requirement. Farms are obligated to maintain evidence that is sufficient - the smolt supplier en - the supplier's consultati	ients for Indicator 8.20 - Consultation and Engagement with Community Representatives ation and engagement with community representatives and organizations. Under Indicator 8.2 to show their suppliers remain in full compliance. Evidence shall be documentary (e.g. meeting aged in "regular" consultations with the local community at least twice every year (bi-annually ons were effective (e.g. using participatory Social Impact Assessment (pSIA) or similar methods) participation by elected representatives from the local community who were asked to contribution.	g agenda, minu r); ; and	tes, report) and will substantiate the following	
	Applicability: All Smolt Producers	a. From each smolt supplier obtain documentary evidence of consultations and engagement with the community.	The invitation was sent 2017-09-14 by e-mail to Steigen commune and other interested parties. The meeting was organised on 2017-09-26. The 6 participants in the meeting.	Compliant		
		b. Review documentation from 8.20a to verify that the smolt supplier's consultations and community engagement complied with requirements.	Consultations have included main points required by the standard. No minutes of meeting just presentation of the activities and treatment.			
8.21	Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes	a. Obtain a copy of the smolt supplier's policy for presentation, treatment and resolution of complaints by community stakeholders and organizations.	The procedure for complaints was presented. The complaints were received and effectively addressed.	Compliant		
	Applicability: All Smolt Producers					
	Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations	a. Obtain documentary evidence showing that the smolt supplier does or does not operate in an indigenous territory (to include farms that operate in proximity to indigenous or aboriginal people (see Indicator 7.2.1). If not then the requirements of 8.22 do not apply.	It was communicated during the application processing to start the sites. No indigenous groups or aboriginal people are present in neighbourhood. No traditional and indigenous groups are involved.			



8.22	Requirement: Yes Applicability: All Smolt Producers Indicator: Where relevant, evidence that the farm has undertaken proactive consultation with indigenous communities	b. Obtain documentation to demonstrate that, as required by law in the jurisdiction: smolt supplier consulted with indigenous groups and retains documentary evidence (e.g. meeting minutes, summaries) to show how the process complies with 7.2.1b; OR smolt supplier confirms that government-to-government consultation occurred and obtains documentary evidence. a. See results of 8.22a (above) to determine whether the requirements of 8.23 apply to the smolt supplier.	It was communicated during the application processing to start the sites. No traditional and indigenous groups are involved. No traditional and indigenous groups are involved. It was communicated during the application processing to start the sites. No indigenous groups or aboriginal people are present in neighbourhood. Based on 8.2.2 a) the requirements of 8.2.3. do not apply.	N/A		
	Requirement: Yes Applicability: All Smolt Producers	b. Where relevant, obtain documentary evidence that smolt suppliers undertake proactive consultations with indigenous communities.	No consultation is applicable. No traditional and indigenous groups are involved.	.4/.		
			PEN (NET-PEN) PRODUCTION OF SMOLT n open system, evidence shall be provided that the following are met:			
	Client shall provide documentary evidence		1 - Requirements for Smolt Produced in Open Systems farm are produced, for part or all of the growth phase from alevin to smolt, in open (net-pen) s	ystems, indicat	tors 8.24 - 8.31 are applicable.	
	Indicator: Allowance for producing or holding smolt in	a. Obtain a declaration from the farm's smolt supplier stating whether the supplier operates in water bodies with native salmonids.	No net-pens, tanks only.			
	net pens in water bodies with native salmonids Requirement: None	b. Request smolt suppliers to identify all water bodies in which they operate net pens for producing smolt and from which facilities they sell to the client.	No net-pens, tanks only.	N/A		
	Applicability: All Smolt Producers Using Open Systems	c. For any water body identified in 8.24b as a source of smolt for the farm, determine if native salmonids are present by doing a literature search or by consulting with a reputable authority. Retain evidence of search results.	No net-pens, tanks only.			
8.25	Indicator: Allowance for producing or holding smolt in net pens in any water body Requirement: Yes Applicability: All Smolt Producers Using Open Systems	a. Take steps to ensure that the farm does not source smolt that was produced or held in net pens.	No net-pens, tanks only.	N/A		
		a. For the water body(s) where the supplier produces smolt for the client (see 8.24b), obtain a copy of the most recent assessment of assimilative capacity.	No net-pens, tanks only.			
	Indicator: Evidence that carrying capacity (assimilative capacity) of the freshwater body has been established by	b. Identify which entity was responsible for conducting the assessment (8.26a) and obtain evidence for their reliability.	No net-pens, tanks only.			
8.26	a reliable entity [151] within the past five years [152] and total biomass in the water body is within the limits established by that study (see Appendix VIII-5 for minimum requirements)	c. Review the assessment (8.26a) to confirm that it establishes a carrying capacity for the water body, it is less than five years old, and it meets the minimum requirements presented in Appendix VIII-5.	No net-pens, tanks only.	N/A		
	Requirement: Yes Applicability: All Smolt Producers Using Open Systems	d. Review information to confirm that the total biomass in the water body is within the limits established in the assessment (8.26a).	No net-pens, tanks only.			
		e. If the study in 8.26a is more than two years old and there has been a significant increase in nutrient input to the water body since completion, request evidence that an updated assessment study has been done.	No net-pens, tanks only.			
Footnote		[151] E.g., Governr	nent body or academic institution.			



Footnote		[152] If the study is older than two years, and there has been a significant increase in nu	trient input to the water body since the completion of the study, a more recent assessment is re	equired		
rootnote		[152] if the study is older than two years, and there has been a significant increase in hu	their input to the water body since the completion of the study, a more recent assessment is n	equireu.		
8.27	Instruction to Clients for Indicator 8.27 and 8.28 - Monitoring TP and DO in Receiving Water for Open Smolt Systems Farms must confirm that any smolt supplier using an open (net-pen) system is also engaged in monitoring of water quality of receiving waters. Requirements for the supplier's water quality monitoring program are presented in detail in Apper re-stated briefly here. Monitoring shall sample total phosphorus (TP) and dissolved oxygen (DO). TP is measured in water samples taken from a representative composite sample through the water column to a depth of the bottom of the consultation of the consultation of the consultation of the farm and/or available satellite imagery; - stations are identified with GPS coordinates on a map of the farm and/or available satellite imagery; - stations are at the limit of the farm management zone on each side of the farm, roughly 50 meters from the edge of enclosures; - the spatial arrangement of stations is shown in the table in Appendix VIII-6; - sampling is done at least quarterly (1X per 3 months) during periods without ice, including peak biomass; and - samples are also collected at two reference stations located ~ 1-2 km upcurrent and downcurrent from the farm. Indicator: Maximum baseline total phosphorus concentration of the water body (see Appendix VIII-6) Note: Some flexibility on the exact location and method of sampling is allowed to avoid smolt suppliers needing to duplicate similar sampling for their local regulatory regime.					
	Requirement: ≤ 20 µg/l [153] Applicability: All Smolt Producers Using Open Systems	a. Obtain documentary evidence to show that smolt suppliers conducted water quality monitoring in compliance with the requirements of Appendix VIII-6.	No net-pens, tanks only.			
		b. Obtain from smolt suppliers a map with GPS coordinates showing the sampling locations.	No net-pens, tanks only.			
		c. Obtain from smolt suppliers the TP monitoring results for the past 12 months and calculate the average value at each sampling station.	No net-pens, tanks only.	N/A		
		d. Compare results to the baseline TP concentration established below (see 8.29) or determined by a regulatory body.	No net-pens, tanks only.			
		e. Confirm that the average value for TP over the last 12 months did not exceed 20 ug/l at any of the sampling stations nor at the reference station.	No net-pens, tanks only.			
Footnote		[153] This concentration is equivalent to the upper limit of the	he Mesotrophic Trophic Status classification as described in Appendix VIII-7.			
			Note: see instructions for Indicator 8.27.			
	Indicator: Minimum percent oxygen saturation of water 50 centimeters above bottom sediment (at all oxygen monitoring locations described in Appendix VIII-6)	a. Obtain evidence that smolt supplier conducted water quality monitoring in compliance with the requirements (see 8.27a).	No net-pens, tanks only.			
8.28	Requirement: ≥ 50%	b. Obtain from smolt suppliers the DO monitoring results from all monitoring stations for the past 12 months.	No net-pens, tanks only.	N/A		
	Applicability: All Smolt Producers Using Open Systems	c. Review results (8.28b) to confirm that no values were below the minimum percent oxygen saturation.	No net-pens, tanks only.			
		a. Obtain documentary evidence from the supplier stating the trophic status of water body if previously set by a regulator body (if applicable).	No net-pens, tanks only.			
8.29	Indicator: Trophic status classification of water body remains unchanged from baseline (see Appendix VIII-7)	b. If the trophic status of the waterbody has not been classified (see 8.29a), obtain evidence from the supplier to show how the supplier determined trophic status based on the concentration of TP.	No net-pens, tanks only.	N/A		
6.29	Requirement: Yes Applicability: All Smolt Producers Using Open Systems	c. As applicable, review results from 8.29b to verify that the supplier accurately assigned a trophic status to the water body in accordance with the table in Appendix VIII-7 and the observed concentration of TP over the past 12 months.	No net-pens, tanks only.	IV/A		



1		d. Compare the above results (8.29c) to trophic status of the water body as reported for all			1
		previous time periods. Verify that there has been no change.	No net-pens, tanks only.		
	Indicator: Maximum allowed increase in total phosphorus concentration in lake from baseline (see	a. Determine the baseline value for TP concentration in the water body using results from either 8.29a or 8.29b as applicable.	No net-pens, tanks only.		
8.30	Appendix VIII-7)	b. Compare the baseline TP concentration (result from 8.30a) to the average observed TP concentration over the past 12 months (result from 8.27e).	No net-pens, tanks only.	N/A	
	Applicability: All Smolt Producers Using Open Systems	c. Verify that the average observed TP concentration did not increase by more than 25% from baseline TP concentration.	No net-pens, tanks only.		
8.31	Indicator: Allowance for use of aeration systems or other technological means to increase oxygen levels in the water body	a. Obtain a declaration from the farm's smolt supplier stating that the supplier does not use aeration systems or other technological means to increase oxygen levels in the water bodies	No net-pens, tanks only.	N/A	
	Requirement: None Applicability: All Smolt Producers Using Open Systems	where the supplier operates.			
			OCCUPAND CLOSED DRODUCTION OF CAMOLITY		

ADDITIONAL REQUIREMENTS FOR SEMI-CLOSED AND CLOSED PRODUCTION OF SMOLTS

Additionally, if the smolt is produced in a closed or semi-closed system (flow through or recirculation) that discharges into freshwater, evidence shall be provided that the following are met [157]:

Instructions to Client for Indicators 8.32-8.35 - Requirement for smolts produced in open systems

Client shall provide documentary evidence to the CAB about the production system(s) from which they source smolt.

-If smolt used by the farm are not produced, for part or all of the growth phase from alevin to smolt, in open (net-pen) systems, indicators 8.32 - 8.35 are applicable.

-If the production system is closed or semi-closed and does not discharge into freshwater, indicators 8.32 - 8.35 are not applicable to smolt producers as per [154]. For such an exemption, farms must provide documentary evidence to the CAB. Auditors shall fully document their rationale for awarding exemptions in the audit report.

Footnote		[154] Production systems that don't disch	narge into fresh water are exempt from these standards.				
	indicator: Water quality monitoring matrix completed and submitted to ASC (see Appendix VIII-2)	a. Obtain records from smolt suppliers showing that water quality monitoring was conducted at least quarterly (i.e. once every 3 months) over the last 12 months.	No discharge to freshwater				
8.32		b. Obtain water quality monitoring matrix from smolt suppliers and review for completeness.	No discharge to freshwater	N/A			
		c. Submit the smolt supplier's water quality monitoring matrix to ASC as per Appendix VIII-2 and Appendix VI at least once per year.	No discharge to freshwater			ı	
Footnote		[155] See Appendix VI fo	or transparency requirements for 8.32.				
	Indicator: Minimum oxygen saturation in the outflow	a. Obtain the water quality monitoring matrix from each smolt supplier (see 8.32b).	No discharge to freshwater				
8.33	(methodology in Appendix VIII-2) Requirement: 60% [156,157]	b. Review the results (8.33a) for percentage dissolved oxygen saturation in the effluent to confirm that no measurements fell below 60% saturation.	No discharge to freshwater	N/A			
	Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	c. If a single DO reading (as reported in 8.33a) fell below 60%, obtain evidence that the smolt supplier performed daily continuous monitoring with an electronic probe and recorder for a least a week demonstrating a minimum 60% saturation at all times (Appendix VIII-2).	No discharge to freshwater				
Footnote	[1	56] A single oxygen reading below 60 percent would require daily continuous monitoring with a	n electronic probe and recorder for at least a week demonstrating a minimum 60 percent satur	ation at all time	es.		
Footnote		[157] See Appendix VI fo	or transparency requirements for 8.33.				
	Indicator: Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic health that is similar or better than surveys upstream from the		No discharge to freshwater				



8.34	discharge (methodology in Appendix VIII-3) Requirement: Yes	b. Review supplier documents (8.34a) to confirm that the surveys followed the prescribed methodology (Appendix VIII-3).	No discharge to freshwater	N/A	
	Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	c. Review supplier documents (8.34a) to confirm the survey results show that benthic health is similar to or better than upstream of the supplier's discharge.	No discharge to freshwater		
	Indicator: Evidence of implementation of biosolids	a. Maintain a copy of smolt supplier's biosolids (sludge) management plan and confirm that the plan addresses all requirements in Appendix VIII-2.	No discharge to freshwater		
8.35	(sludge) Best Management Practices (BMPs) (Appendix VIII-4)	b. Obtain from smolt suppliers a process flow diagram (detailed in Appendix VIII-2) showing how the farm is dealing with biosolids responsibly.	No discharge to freshwater	N/A	
8.35	Requirement: Yes Applicability: All Smolt Producers Using Semi-Closed or	c. Obtain a declaration from smolt supplier stating that no biosolids were discharged into natural water bodies in the past 12 months.	No discharge to freshwater	N/A	
	Closed Production Systems	d. Obtain records from smolt suppliers showing monitoring of biosolid (sludge) cleaning maintenance, and disposal as described in Appendix VIII-2.	No discharge to freshwater		
SECTION 8:	STANDARDS FOR SUPPLIERS OF SMOLT		Internal supplier, Hopen		
		Standards rela	ted to Principle 1		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
		a. Identify all of the farm's smolt suppliers. For each supplier, identify the type of smolt production system used (e.g. open, semi or closed systems) and submit this information to ASC (Appendix VI).	Semiclosed system. Submitted ASC. Confirmed by ASC in mail 22.05.18		
	Indicator: Compliance with local and national regulations on water use and discharge, specifically providing permits related to water quality Requirement: Yes Applicability: All Smolt Producers	b. Where legal authorisation related to water quality are required, obtain copies of smolt suppliers' permits.	Document from "Statens Dyrehelsetilsyn", dated 20.11.2000, ref 00/522 for Max 230t MT feed / 2.5 mill smolts. No additional cleaning requirements for discharge water. Water from HE power plant Fylkesmannen Nordland discharge permit dt. 15.07.04, ref 2003/1788.		
8.1		c. Obtain records from smolt suppliers showing monitoring and compliance with discharge laws, regulations, and permit requirements as required.	Fisheries Directorate inspection 06.08.15. No NCs given. Fylkesmannen inspection 23.03.16. 04 NCs given. NCs. Confirmed closed i mail dt 08.07.15. Mattilsynet, 23.05.17, 1 NC regarding production of triploid fish, NC closed seen document 28.09.17, mail from Mattilsynet	Compliant	
		-	Fiskeridirektoratet permit and Recipient survey performed by AkvaPlan Niva AS. 28.09.16. Report no APN-8321.02 Result category 1 very good. MOM-C		
8.2	Indicator: Compliance with labor laws and regulations Requirement: Yes	a. Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations.	Internal suppliers statement related to relevant parts of ASC std. Dt 15.03.18. OHAS isssues, alsoin OHAS Policy. Internal OHAS inspections performed twice a year. No Inspections relating to labour conditions/issues has been held recent years. Inspection from NLA (Arbeidstilsynet) 08,05,18, ref 2018/21726, several NC with tmelimit 06.06.18	Compliant	
	Applicability: All Smolt Producers	b. Keep records of supplier inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation; see 1.1.3a)	Inspections relating to labour conditions/issues has not been held.		
			ted to Principle 2	•	ı
	T	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains the same components as the assessment for grow-out facilities under 2.4.1	Note: If the smolt facility has previously undertaken an independent assessment of biodiversit a. Obtain from the smolt supplier(s) a documented assessment of the smolt site's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3.	Fiskeridirektoratet permit and Recipient survey performed by AkvaPlan Niva AS .28.09.16. Report no APN-8321.02 Result category 1 very good. MOM-C		
8.3	Requirement: Yes	очинеч и другим го.	LENVIRONMENTAL TISKS WITH CONTINGENCY plans and references to relevant public regulations and national legislation.	Compliant	



	Applicability: All Smolt Producers	b. Obtain from the smolt supplier(s) a declaration confirming they have developed and are implementing a plan to address potential impacts identified in the assessment.	In site specific "Miljømål Settefisk" Cermaq Norway AS covering impacts defined in indicator above. Annual revision of plan," top to down" template including targets relavant for risk adressed in the assessement published 16.04.18 and smoltsites are working with site specific plans to be finished in June 2018.			
		Instruction to Clients for Indicator 8.4 - Calculating Total Phosphorus Released per Ton of Fig.				
		a. Obtain records from smolt suppliers showing amount and type of feeds used for smolt production during the past 12 months.	Production reports and records in Fish Talk 196 830 kg feed for period 01.03.17 to 28.02.18.			
		b. For all feeds used by the smolt suppliers (result from 8.4a), keep records showing phosphorus content as determined by chemical analysis or based on feed supplier declaration (Appendix VIII-1).	Ewos and Polarfeed/Europharma. Declaration per feed type and particle size from feed supplier. (Values for feed type 1.6 to 1,8 % phosphorus content			
	Indicator: Maximum total amount of phosphorus released into the environment per metric ton (mt) of fish	c. Using the equation from Appendix VIII-1 and results from 8.4a and b, calculate the total amount of phosphorus added as feed during the last 12 months of smolt production.	Calculated: 3 327,5 kg total amount of phosphorus added as feed.			
8.4	produced over a 12-month period (see Appendix VIII-1) Requirement: 4 kg/mt of fish produced over a 12-month period	d. Obtain from smolt suppliers records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced (formula in Appendix VIII-1) during the past 12 months.	Records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced are available. 203 114 kg biomass production.	Compliant		12,08 kg P / mt
	Applicability: All Smolt Producers	e. Calculate the amount of phosphorus in fish biomass produced (result from 8.4d) using the formula in Appendix VIII-1.	873,3 kg phosphorus in fish biomass produced. Calculations are correct.			
		f. If applicable, obtain records from smolt suppliers showing the total amount of P removed as sludge (formula in Appendix VIII-1) during the past 12 months.	No sludge produced/removed			
		g. Using the formula in Appendix VIII-1 and results from 8.4a-f (above), calculate total phosphorus released per ton of smolt produced and verify that the smolt supplier is in compliance with requirements.	3124,4kg phosphorus released Calculated: 12,08 kg P / mt. Reference is made to VR 39 on phosphoru release to sea confirmed by ASC. See www.ascaqua.org for VR 39 determination by ASC dt.15.09.14			
	<u>'</u>	Standards rela	ted to Principle 3		<u>'</u>	
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
		a. Obtain written evidence showing whether the smolt supplier produces a non-native	Salmo salar is native to region			
	Indicator: If a non-native species is being produced, the	species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1).	Salmo salar is native to region. Salmo salar is native to region.			
	Indicator: If a non-native species is being produced, the species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon	species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1). c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary		-		
8.5	species shall have been widely commercially produced in	species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1).	Salmo salar is native to region.	N/A	Salmo salar is native to region.	
8.5	species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard Requirement: Yes [137]	species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1.). c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish. d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and 3) barriers ensure there are no escapes of biological material that might survive and subsequently reproduce.	Salmo salar is native to region. Salmo salar is native to region.	N/A	Salmo salar is native to region.	
8.5	species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard Requirement: Yes [137] Applicability: All Smolt Producers except as noted in	species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1). c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish. d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and 3) barriers ensure there are no escapes of biological material that might survive and	Salmo salar is native to region. Salmo salar is native to region.	N/A	Salmo salar is native to region.	
8.5	species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard Requirement: Yes [137] Applicability: All Smolt Producers except as noted in [137]	species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1). c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish. d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and 3) barriers ensure there are no escapes of biological material that might survive and subsequently reproduce. e. Retain evidence as described in 8.5a-d necessary to show compliance of each facility	Salmo salar is native to region. Salmo salar is native to region. Salmo salar is native to region.	,	J. Control of the con	quently
	species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard Requirement: Yes [137] Applicability: All Smolt Producers except as noted in [137]	species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1). c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish. d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and 3) barriers ensure there are no escapes of biological material that might survive and subsequently reproduce. e. Retain evidence as described in 8.5a-d necessary to show compliance of each facility supplying smolt to the farm. sthat use 100 percent sterile fish or systems that demonstrate separation from the wild by effective incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.	Salmo salar is native to region. Salmo salar is native to region. Salmo salar is native to region.	,	J. Control of the con	quently
	species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard Requirement: Yes [137] Applicability: All Smolt Producers except as noted in [137]	species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1). c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish. d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and 3) barriers ensure there are no escapes of biological material that might survive and subsequently reproduce; and e. Retain evidence as described in 8.5a-d necessary to show compliance of each facility supplying smolt to the farm. The sthat use 100 percent sterile fish or systems that demonstrate separation from the wild by effective in compliance of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees. b. Using smolt supplier records from 8.6a, determine the total number of fish that escaped. Verify that there were fewer than 300 escapees from the smolt production facility in the most recent production cycle.	Salmo salar is native to region. Sective physical barriers that are in place and well-maintained to ensure no escapes of reared sylven specific physical barriers that are in place and well-maintained to ensure no escapes of reared sylven specific physical barriers that are in place and well-maintained to ensure no escapes of reared sylven specific physical barriers that are in place and well-maintained to ensure no escapes of reared sylven specific physical barriers barriers by the properties of the properties of the properties of the properties of the properties by the properties of the	,	J. Control of the con	quently
	species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard Requirement: Yes [137] Applicability: All Smolt Producers except as noted in [137] [137] Exceptions shall be made for production syste	species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1.). c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish. d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and 3) barriers ensure there are no escapes of biological material that might survive and subsequently reproduce. e. Retain evidence as described in 8.5a-d necessary to show compliance of each facility supplying smolt to the farm. ms that use 100 percent sterile fish or systems that demonstrate separation from the wild by effective produces of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees. b. Using smolt supplier records from 8.6a, determine the total number of fish that escaped. Verify that there were fewer than 300 escapees from the smolt production facility in the	Salmo salar is native to region. Sective physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physical barriers that are in place and well-maintained to ensure no escapes of reared synonymous physic	,	J. Control of the con	quently



				_		
	[23]	d. If an escape episode occurs at the smolt production facility (i.e. an incident where > 300 fish escaped), the farm may request a rare exception to the Standard [139]. Requests must provide a full account of the episode and must document how the smolt producer could not have predicted the events that caused the escape episode.	Internal Risk Assessment/contingency plan with instruction for registration and reporting. No incident reported. Verified by Fisheries Directorate escape incidents overviw (www.F.Dir.no)			
Footnote		[138] Farms shall report all escapes; the total aggregate	d number of escapees per production cycle must be less than 300 fish.			
Footnote	[139] A rare exception to this standard may be made for	an escape event that is clearly documented as being outside of the farm's control. Only one suc	ch exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-	ear period star	rts at the beginning of the production cycle for	r which the
8.7	Indicator: Accuracy [140] of the counting technology or counting method used for calculating the number of fish Requirement: ≥98% Applicability: All Smolt Producers	a. Obtain records showing the accuracy of the counting technology used by smolt suppliers. Records must include copies of spec sheets for counting machines and common estimates of error for hand-counts. B. Review records to verify that accuracy of the smolt supplier's counting technology or counting method is ≥ 98%.	Last secure point of counting in vaccination in FW site. AquascanScan electronic counting/registartion system documents presented. Decl +/- max98% accuracy. Verified by provider specsifications. Last secure point of counting in vaccination in FW site. AquaScan electronic counting/registartion system documents presented. Decl +/- max 2%. Verified by provider specsifications.	Compliant		≥98%
Footnote		[140] Accuracy shall be determined by the spec sheet for cour	I nting machines and through common estimates of error for any hand counts.			
Toothote			ted to Principle 4			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		1	
8.8	Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from production (e.g., disposal and recycling) Requirement: Yes Applicability: All Smolt Producers		Cermaq internal document "Avfallsplan Cermaq Norway" version 14, dated 27.03.18 with authorised service provider to Østbø. Public service on domestic, type of waste defined, domestic, special waste/chemicals, for recycling etc .Evaluation of environmental impacts. Invoice no 31235, Østbø, 1000 I rest waste	Compliant		
		Note: see instructions for Indicator 4.6.1.				
	Indicator: Presence of an energy-use assessment verifying the energy consumption at the smolt production facility (see Appendix V subsection 1 for guidance and required components of the records and assessment) Requirement: Yes, measured in kilojoule/mt fish/production cycle Applicability: All Smolt Producers	a. Obtain records from the smolt supplier for energy consumption by source (fuel, electricity) at the supplier's facility throughout each year. b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year.	Records OK in excel documents. 2017 consumption of scope 1 = 62 141 044 KJ and scope 2 = purchased electricity = 9 667 319 700KJ.			
8.9		c. Obtain records to show the smolt supplier calculated the total weight of fish in metric tons (mt) produced during the last year.	Tot Scope 1+2 = 9 729 460 744 285 88 MT BM produced	Compliant		
		 d. Confirm that the smolt supplier used results from 8.9b and 8.9c to calculate energy consumption on the supplier's facility as required and that the units are reported as kilojoule/mt fish/production cycle. 	34 032 911 kJ/Mt BM produced			
		 e. Obtain evidence to show that smolt supplier has undergone an energy use assessment in compliance with requirements of Appendix V-1. Can take the form of a declaration detailing a- e. 	Records OK in excel. Continuous evaluation.			
1		Note: see instructions for Indicator 4.6.2.			1	
	Indicator: Records of greenhouse gas (GHG [141])	a. Obtain records of greenhouse gas emissions from the smolt supplier's facility. b. Confirm that, on at least an annual basis, the smolt supplier calculates all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.	Records OK Scope 1 on farm genereated energy = 4 387 Kg CO 2 (conv.factor is 2,53.2,67) Scope 2 emission (conv,factor 0,091) = 682 525,7 kg CO2. Total Scope 1+2 = 686 913,02 Kg CO2			
8.10	emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V, subsection 1) Requirement: Yes Applicability: All Smolt Producers	c. For GHG calculations, confirm that the smolt supplier selects the emission factors which are best suited to the supplier's operation. Confirm that the supplier documents the source of the emissions factors.	Scope 1 on farm genereated energy = 4 387 Kg CO 2 (conv.factor is 2,53.2,67) Scope 2 emission (conv,factor 0,091) = 682 525,7 kg CO2. Total Scope 1+2 = 686 913,02 Kg CO2 Calculations and assessment provided by CO2 focus. Data from IEA 2013, SSB 2013, EIA 2011, IPCC 2006.	Compliant		
		d. For GHG calculations involving conversion of non-CO2 gases to CO2 equivalents, confirm that the smolt suppliers specify the Global Warming Potential (GWP) used and its source. e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in	CO2 used Calculations and assssment provided. Calculations and assssment provided by CO2 focus.			
		compliance with requirements Appendix V-1 at least annually.	Data from IEA 2013, SSB 2013, EIA 2011, IPCC 2006.			
Footnote	[141] For the purpos	es of this standard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxid		Cs); and sulph	ur hexafluoride (SF ₆).	
Footnote			gnized methods, standards and records as outlined in Appendix V.	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , ,	
		Standards rela	ted to Principle 5			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			



	Indicator: Evidence of a fish health management plan, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites	a. Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish disease and parasites.	Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. External veterinary service LABORA, Approved and signed by veterinarian dt 04.08.17 Karl Fredrik Ottem. Report from LABORA, 23.04.18, signed Helen Katrine Kvam			
8.11	Requirement: Yes Applicability: All Smolt Producers	b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's designated veterinarian.	Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. External veterinary service LABORA, Approved and signed by veterinarian dt 04.08.17 Karl Fredrik Ottem. Report from LABORA, 23.04.18, signed Helen Katrine Kvam	Compliant		
		Maintain a list of diseases that are known to present a significant risk in the region, developed by farm veterinarian and supported by scientific evidence.	Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. External veterinary service LABORA, Approved and signed by veterinarian dt 04.08.17 Karl Fredrik Ottem. Report from LABORA, 23.04.18, signed Helen Katrine Kvam			
	Indicator: Percentage of fish that are vaccinated for selected diseases that are known to present a significant risk in the region and for which an effective vaccine exists [143] Requirement: 100% Applicability: All Smolt Producers	b. Maintain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence.	In FHMP/VHP Ttype of disease and control monitoring strategies, vaccines/pathogens type/product name detailed in plan.			
8.12		c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received.	In smolt CV transfered to sea at 27.08.17 and Fish Talk with dates and type for smolts for site, 100% vaccination is a legal requirement controlled by NFSA. Smolt CVs for site with ova /stripping/startfeeding dates. Vaccine Alpha Ject Micro 6, 17.07.2017, supplier Pharmaq Smolt from yearclass 2017	Compliant		100 %
		d. Demonstrate, using the lists from 8.12a-c above, that all salmon on the farm received vaccination against all selected diseases known to present a significant risk in the regions for which an effective vaccine exists.	100% vaccinated according to national legislation. Verified in smolt CV and Fishtalk. Verified towards registrations in FHP / CV / Fishtalk. Internal supplier: All fish vaccinated with vaccine type AJ-micro-6.			
Footnote	[143] The farm's designated veterinarian is responsible	for undertaking and providing written documentation of the analysis of the diseases that pose	a risk in the region and the vaccines that are effective. The veterinarian shall determine which v	vaccinations to u	use and demonstrate to the auditor that this de	ecision is
	Indicator: Percentage of smolt groups [144] tested for select diseases of regional concern prior to entering the	The farm is responsible for developing and maintaining a list of diseases of regional concern. The designated veterinarian to the smolt supplier is required to evaluate, based on scientific or	struction to Clients for Indicator 8.13— Testing of Smolt for Select Diseases for which each smolt group should be tested. The list of diseases shall include diseases that or (and for which seawater fish-to-fish transmission is a concern). Criteria and publicly available information, which diseases should be tested for. This analysis shall be grow-out phase, thereby disqualifying a smolt group from being transferred. The analysis mis	all include an ev	aluation of whether clinical disease or a patho	
8.13	grow-out phase on farm Requirement: 100%	Note: A "smolt group" is defined as a population that sha	res disease risk, including environment, husbandry, and host factors that might contribute to sh	naring disease a	gents for each group.	
	Applicability: All Smolt Producers	a. Obtain from the smolt supplier a list of diseases of regional concern for which smolt should be tested. List shall be supported by scientific analysis as described in the Instruction above. b. Obtain from the smolt supplier(s) a declaration and records confirming that each smolt	Risk based testing regime.VHP and Veterinary visits: lists and documented according to local VHP predetermined sampling and visits regime defined in VHP plan. Sceeining programme incl. Broodfish.All internal smolt ISA Veterinary visits according to VHP.	Compliant		100 %
		group received by the farm has been tested for the diseases in the list (8.13a).	Smolt group health certificate. Patogen analyse, tested for PRV and ILA, report no 2017-4558-1, no positive			
Footnote	[144] A smolt group is any population that shares dise	ase risk, including environment, husbandry and host factors that might contribute to sharing dis		ter (and for whi	ch seawater fish-to-fish transmission is a conce	ern) but
8.14	Indicator: Detailed information, provided by the designated veterinarian, of all chemicals and therapeutants used during the smolt production cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated and against which diseases, proof of proper	a. Obtain from the smolt supplier(s) a detailed record of all chemical and therapeutant use for the fish sold to the farm that is signed by their veterinarian and includes: - name of the veterinarian prescribing treatment; - product name and chemical name; - reason for use (specific disease) - date(s) of treatment;	Therapeutant used, verified in fish CV also documented in FishTalk according to FHP - type, producer and batch. Prescription signed by responsible vetrinary / FHB/ Vaccines produced by Pharmaq.	Compliant		
	dosing and all disease and pathogens detected on the site Requirement: Yes	 amount (g) of product used; dosage; mt of fish treated; the WHO classification of antibiotics (also see note under 5.2.8); and 	Therapeutant used and documented on fishgroup.			



Inc	ndicator: Allowance for use of therapeutic treatments	a. Provide to the smolt supplier the list (see 5.2.2a) of therapeutants, including antibiotics and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing countries listed in [146].	Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked " In FHP " oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances			
8.15 [14 im	nat include antibiotics or chemicals that are banned [45] in any of the primary salmon producing or inporting countries [146] equirement: Yes pplicability: All Smolt Producers	with ASC certification.	Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked "In FHP" oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances	Compliant		
		c. Compare therapeutant records from smolt supplier (8.14) to the list (8.15a) and confirm that no therapeutants appearing on the list (8.15a) were used on the smolt purchased by the farm.	Vaccines in fish CV and Fish Talk - type and producer and batch. Ananesthetics and antiparasite treatment formalin, ok according to list. No AB used.			
Footnote			a government entity because of concerns around the substance.			
Footnote		[146] For purposes of this standard, those countries are	e Norway, the UK, Canada, Chile, the United States, Japan and France.			,
	ndicator: Number of treatments of antibiotics over the nost recent production cycle	a. Obtain from the smolt supplier records of all treatments of antibiotics (see 8.14a).	No AB used. Seen fish CV with all treatments identifed.	Compliant		
Po	equirement: ≤ 3	b. Calculate the total number of treatments of antibiotics from their most recent production cycle.	No AB used. Seen fish CV with all treatments identifed.			
	ndicator: Allowance for use of antibiotics listed as	a. Provide to smolt supplier(s) a current version of the WHO list of antimicrobials critically	Internal supplier			
	ritically important for human medicine by the WHO	and highly important for human health [147].	List (allowed and banned substances - against WHO critical list.			0
[14	147]	b. Inform smolt supplier that the antibiotics on the WHO list (8.17a) cannot be used on fish	Internal supplier			
8.17		sold to a farm with ASC certification.	List (allowed and banned substances - against WHO critical list.	Compliant		
	equirement: None [148]	c. Compare smolt supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotics listed as critically important for human medicine by the	No AB used. Seen fish CV with all treatments identifed.			
	pplicability: All Smolt Producers	WHO were used on fish purchased by the farm.		2 16		
Footnote Footnote			as released in 2009 and is available at: http://www.who.int/foodborne_disease/resistance/CIA a farm site, fish from pens that did not receive treatment are still eligible for certification.	_3.par.		
rootilote			s for Indicator 5.4.3 regarding evidence of compliance with the OIE Aquatic Animal Health Code			
	addresses Friday as of association as [4.40] with the OIF	a. Provide the smolt supplier with a current version of the OIE Aquatic Animal Health Code	Cermag Statment dt 18.01.18 on ASC requirements regarding OIE AAHC for smolt			
	ndicator: Evidence of compliance [149] with the OIE quatic Animal Health Code [150]	(or inform the supplier how to access it from the internet).	deliveries, signed by vet.responsible Karl Freedrik Ottem. Internal supplier			
8 18	equirement: Yes	 Inform the supplier that an ASC certified farm can only source smolt from a facility with policies and procedures that ensure that its smolt production practices are compliant with 	Cermag Statment dt 18.01.18 on ASC requirements regarding OIE AAHC for smolt deliveries, signed by vet.responsible Karl Freedrik Ottem. Internal supplier	Compliant		
		the OIE Aquatic Animal Health Code.	active to the supplier of the supplier of the supplier			
Ap	pplicability: All Smolt Producers	c. Obtain a declaration from the supplier stating their intent to comply with the OIE code and copies of the smolt suppliers policies and procedures that are relevant to demonstrate	Internal supplier			
		compliance with the OIE Aquatic Animal Health Code.	internal supplier			
Footnote	[149] Compliance is defined as farm practices consist	tent with the intentions of the Code, to be further outlined in auditing guidance. For purposes o	f this standard, this includes an aggressive response to detection of an exotic OIE-notifiable dis	ease on the farr	m, which includes depopulating the infected si	ite and
Footnote			alth Code. http://www.oie.int/index.php?id=171.			
			ted to Principle 6			
li	disates. Evidence of company level policies and	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			}
	ndicator: Evidence of company-level policies and rocedures in line with the labor standards under 6.1 to	a. Obtain copies of smolt supplier's company-level policies and procedures and a declaration of compliance with the labor standards under 6.1 to 6.11.	The internal Smolt supplier used: company documents apply.			
	.11	b. Review the documentation and declaration from 8.19a to verify that smolt supplier's		Compliant		
		policies and procedures are in compliance with the requirements of labor standards under	Company documents apply: the internal Smolt supplier used.			
Re	equirement: Yes	6.1 to 6.11.				
			ted to Principle 7			
1.	disates. Evidence of society and the time and	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
	ndicator: Evidence of regular consultation and ngagement with community representatives and	Instruction to Cli	ients for Indicator 8.20 - Consultation and Engagement with Community Representatives The invitation was sent 2017-09-28 by e-mail to Steigen commune and other interested			1
or	rganizations	a. From each smolt supplier obtain documentary evidence of consultations and engagement	parties.			
8.20	<u>g</u>	with the community.	The meeting was organised on 2017-10-30. 1 participant from interested parties.	Compliant		
I_	equirement: Yes	b. Review documentation from 8.20a to verify that the smolt supplier's consultations and				1
Re	equirement. 1es	community engagement complied with requirements.	Consultations have included main points required by the standard.			



8.21	Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All Smolt Producers	a. Obtain a copy of the smolt supplier's policy for presentation, treatment and resolution of complaints by community stakeholders and organizations.	Internal Smolt supplier used. Company procedures are used. See Principle 7.1.2.	Compliant	
	Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations	a. Obtain documentary evidence showing that the smolt supplier does or does not operate in an indigenous territory (to include farms that operate in proximity to indigenous or aboriginal people (see Indicator 7.2.1). If not then the requirements of 8.22 do not apply.	It was communicated during the application processing to start the sites. Some Sami groups are present in the area.		
8.22	Requirement: Yes Applicability: All Smolt Producers	b. Obtain documentation to demonstrate that, as required by law in the jurisdiction: smolt supplier consulted with indigenous groups and retains documentary evidence (e.g. meeting minutes, summaries) to show how the process complies with 7.2.1b; OR smolt supplier confirms that government-to-government consultation occurred and obtains documentary evidence.	It was communicated during the application processing to start the sites. Sami representatives were invited, but no participants or enquires were presented.	Compliant	
	Indicator: Where relevant, evidence that the farm has undertaken proactive consultation with indigenous	a. See results of 8.22a (above) to determine whether the requirements of 8.23 apply to the smolt supplier.	It was communicated during the application processing to start the sites. Some Sami groups are present in the area.		
8.23	communities Requirement: Yes	b. Where relevant, obtain documentary evidence that smolt suppliers undertake proactive consultations with indigenous communities.	It was communicated during the application processing to start the sites. Sami representatives were invited to stake holders consultation meeting, but no participants appeared nor enquires were presented.	Compliant	
	nequirement. Tes	ADDITIONAL REQUIREMENTS FOR OR	EN (NET-PEN) PRODUCTION OF SMOLT		
		1 4	1 - Requirements for Smolt Produced in Open Systems		
		a. Obtain a declaration from the farm's smolt supplier stating whether the supplier operates	- nequilibrium in militari i roudeed in open systems		
	Indicator: Allowance for producing or holding smolt in net pens in water bodies with native salmonids	b. Request smolt suppliers to identify all water bodies in which they operate net pens for	No net-pens, tanks only.		
	Requirement: None	producing smolt and from which facilities they sell to the client. c. For any water body identified in 8.24b as a source of smolt for the farm, determine if	No net-pens, tanks only.	N/A	
	Applicability: All Smolt Producers Using Open Systems		No net-pens, tanks only.		
8.25	Indicator: Allowance for producing or holding smolt in net pens in any water body	a. Take steps to ensure that the farm does not source smolt that was produced or held in net pens.	No net-pens, tanks only.	N/A	
	Indicator: Evidence that carrying capacity (assimilative	 a. For the water body(s) where the supplier produces smolt for the client (see 8.24b), obtain a copy of the most recent assessment of assimilative capacity. 	No net-pens, tanks only.		
	capacity) of the freshwater body has been established by a reliable entity [151] within the past five years [152] and	b. Identify which entity was responsible for conducting the assessment (8.26a) and obtain evidence for their reliability.	No net-pens, tanks only.		
8.26	total biomass in the water body is within the limits established by that study (see Appendix VIII-5 for minimum requirements)	c. Review the assessment (8.26a) to confirm that it establishes a carrying capacity for the water body, it is less than five years old, and it meets the minimum requirements presented in Appendix VIII-5.	No net-pens, tanks only.	N/A	
	Requirement: Yes	d. Review information to confirm that the total biomass in the water body is within the limits established in the assessment (8.26a).	No net-pens, tanks only.		
	Applicability: All Smolt Producers Using Open Systems	e. If the study in 8.26a is more than two years old and there has been a significant increase in nutrient input to the water body since completion, request evidence that an updated assessment study has been done.	No net-pens, tanks only.		
Footnote			nent body or academic institution.		
Footnote			trient input to the water body since the completion of the study, a more recent assessment is re		
		Instruction to Clients to	for Indicator 8.27 and 8.28 - Monitoring TP and DO in Receiving Water for Open Smolt System	is	
	Indicator: Maximum baseline total phosphorus	Obtain documentary evidence to show that smolt suppliers conducted water quality monitoring in compliance with the requirements of Appendix VIII-6.	No net-pens, tanks only.		1
	concentration of the water body (see Appendix VIII-6)		No net-pens, tanks only.		1
8.27	Requirement: ≤ 20 μg/l [153]	c. Obtain from smolt suppliers the TP monitoring results for the past 12 months and calculate the average value at each sampling station.	No net-pens, tanks only.	N/A	1
	Applicability: All Smolt Producers Using Open Systems	d. Compare results to the baseline TP concentration established below (see 8.29) or determined by a regulatory body.	No net-pens, tanks only.		1
		e. Confirm that the average value for TP over the last 12 months did not exceed 20 ug/l at any of the sampling stations nor at the reference station.	No net-pens, tanks only.		<u> </u>
Footnote		[153] This concentration is equivalent to the upper limit of the	ne Mesotrophic Trophic Status classification as described in Appendix VIII-7.		
	Indicator: Minimum percent oxygen saturation of water		Note: see instructions for Indicator 8.27.		
	50 centimeters above bottom sediment (at all oxygen monitoring locations described in Appendix VIII-6)	a. Obtain evidence that smolt supplier conducted water quality monitoring in compliance with the requirements (see 8.27a).	No net-pens, tanks only.		1



8.28	Requirement: ≥ 50%	b. Obtain from smolt suppliers the DO monitoring results from all monitoring stations for the past 12 months.	No net-pens, tanks only.	N/A		ı
	Applicability: All Smolt Producers Using Open Systems	c. Review results (8.28b) to confirm that no values were below the minimum percent oxygen saturation.	No net-pens, tanks only.			ı
		a. Obtain documentary evidence from the supplier stating the trophic status of water body if previously set by a regulator body (if applicable).	No net-pens, tanks only.			
	Indicator: Trophic status classification of water body remains unchanged from baseline (see Appendix VIII-7)	b. If the trophic status of the waterbody has not been classified (see 8.29a), obtain evidence from the supplier to show how the supplier determined trophic status based on the	No net-pens, tanks only.			ı
8.29	Requirement: Yes	concentration of TP. c. As applicable, review results from 8.29b to verify that the supplier accurately assigned a trophic status to the water body in accordance with the table in Appendix VIII-7 and the	No net-pens, tanks only.	N/A		ı
	Applicability: All Smolt Producers Using Open Systems	d. Compare the above results (8.29c) to trophic status of the water body as reported for all				ı
	Indicator: Maximum allowed increase in total	previous time periods. Verify that there has been no change. a. Determine the baseline value for TP concentration in the water body using results from	No net-pens, tanks only.			
	phosphorus concentration in lake from baseline (see Appendix VIII-7)	either 8.29a or 8.29b as applicable. b. Compare the baseline TP concentration (result from 8.30a) to the average observed TP	No net-pens, tanks only.			i
8.30	Requirement: 25%	concentration over the past 12 months (result from 8.27e). c. Verify that the average observed TP concentration did not increase by more than 25% from	No net-pens, tanks only.	N/A		ı
	Indicator: Allowance for use of aeration systems or other	baseline TP concentration. a. Obtain a declaration from the farm's smolt supplier stating that the supplier does not use	No net-pens, tanks only.			
8.31	technological means to increase oxygen levels in the	aeration systems or other technological means to increase oxygen levels in the water bodies	No net-pens, tanks only.	N/A		i,
		ADDITIONAL REQUIREMENTS FOR SEMI-CL	OSED AND CLOSED PRODUCTION OF SMOLTS			
			Requirement for smolts produced in open systems			
Footnote		[154] Production systems that don't disci	harge into fresh water are exempt from these standards.			
	Indicator: Water quality monitoring matrix completed and submitted to ASC (see Appendix VIII-2)					ı
0.22	Requirement: Yes [155]	a. Obtain records from smolt suppliers showing that water quality monitoring was conducted at least quarterly (i.e. once every 3 months) over the last 12 months.	No discharge to freshwater	N/A		İ
8.32	Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems			N/A		İ
		· · · · · · · · · · · · · · · · · · ·	No discharge to freshwater			i
		c. Submit the smolt supplier's water quality monitoring matrix to ASC as per Appendix VIII-2 and Appendix VI at least once per year.	No discharge to freshwater			
Footnote		[155] See Appendix VI f	for transparency requirements for 8.32.			
	Indicator: Minimum oxygen saturation in the outflow (methodology in Appendix VIII-2)	a. Obtain the water quality monitoring matrix from each smolt supplier (see 8.32b).	No discharge to freshwater			i
8.33	Requirement: 60% [156,157]	 Review the results (8.33a) for percentage dissolved oxygen saturation in the effluent to confirm that no measurements fell below 60% saturation. 	No discharge to freshwater	N/A		i
	Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	c. If a single DO reading (as reported in 8.33a) fell below 60%, obtain evidence that the smolt supplier performed daily continuous monitoring with an electronic probe and recorder for a least a week demonstrating a minimum 60% saturation at all times (Appendix VIII-2).	No discharge to freshwater			ı
Footnote	[1]	56] A single oxygen reading below 60 percent would require daily continuous monitoring with a	an electronic probe and recorder for at least a week demonstrating a minimum 60 percent satur	ation at all tim	es.	
Footnote			or transparency requirements for 8.33.			
	Indicator : Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic health	Obtain documentation from smolt supplier(s) showing the results of macro-invertebrate surveys.	No discharge to freshwater			
8.34	that is similar or better than surveys upstream from the discharge (methodology in Appendix VIII-3)	b. Review supplier documents (8.34a) to confirm that the surveys followed the prescribed methodology (Appendix VIII-3).	No discharge to freshwater	N/A		ı
	Requirement: Yes	c. Review supplier documents (8.34a) to confirm the survey results show that benthic health is similar to or better than upstream of the supplier's discharge.	No discharge to freshwater			
	Indicator: Evidence of implementation of biosolids (sludge) Best Management Practices (BMPs) (Appendix VIII-4)	a. Maintain a copy of smolt supplier's biosolids (sludge) management plan and confirm that the plan addresses all requirements in Appendix VIII-2. b. Obtain from smolt suppliers a process flow diagram (detailed in Appendix VIII-2) showing	No discharge to freshwater			ı
8.35	Requirement: Yes	Do Dotain from smoit suppliers a process now diagram (detailed in Appendix VIII-2) showing how the farm is dealing with biosolids responsibly. Obtain a declaration from smolt supplier stating that no biosolids were discharged into	No discharge to freshwater	N/A		ı
	Applicability: All Smolt Producers Using Semi-Closed or	d. Obtain a declaration from smolt supplier stating that no biosolids were discharged into natural water bodies in the past 12 months. d. Obtain records from smolt suppliers showing monitoring of biosolid (sludge) cleaning	No discharge to freshwater			ı
	Closed Production Systems	maintenance, and disposal as described in Appendix VIII-2.	No discharge to freshwater			



11 Findings

11.5 Add new rows as needed

11.1 DO NOT DELETE ANY COLUMN

11.6 Adjust the column wide as needed - to show the whole text

11.2 Columns B/C/D/E (in black) are automatically populated from the species checklist/audit manual

11.3 Each NC is raised against a standard indicator or a CAR requirement

11.4 Use the "sort" function for presenting the list to your liking (e.g. grading, status, closure deadline, etc.)

NC reference	Indicator	Grade of NC	Description of NC	Evidence	Date of detection	Status	Related VR (#)	Root cause (by client)	Corrective/ preventive actions implemented	Deadline for NC close-out	Evaluation by CAB (including evidence)
IA-18-1	3.4.4.b			Not seen record from the last 6 months inspection of the moorings in Infor EAM, system for maintenance	31.05.2018	Open		with UW camera and no NCs were found, however as	For the future the site manager with check/do a quality assurance that all preventive work-orders and maintenance are registered.		Accepted - 19.06.18 THOVB: Root cause, corrective and preventive actions accepted
IA-18-2	2.1.3.c		Report from Akvaplan-niva AS, report no. 8630.01 dt 03.03.17 including results from samplings dated 30.11.2016. The sample 1 and 5 inside AZE are showing only 1 highly abundant taxa that are not pollution species	Verified in report from Akvaplan- niva AS, report no. 8630.01 dt 03.03.17, including results from samplings dated 30.11.2016.	31.05.2018	Open		abundance and the site all over (outside AZE had good performance according to the nrwegian sampling regime, and within the AZE it had a Good status (II). And organic loading measured through Total Organic loading (TOM, TOC, N-TOC, C/N) was good (II) but biodiversity was reduced in the AZE. There was no smell or other signs of Hydrgen sulphide.	We will follow up this on the next sampling. Cermaq Norway focuses highly on reducing environmental footprint. This includes using eFCR as a KPI and evaluating all environmental monitoring results. All reports are sent to Norwegian Environmental regulation authorities and we strive to have high performing sites. If the site has poor results over several generations, longer fallowing times will be implemeted. However one indicator such as redox does not neccasarily mean that the site is not performing well with regards to environmental footprint.	31.08.2018	Accepted - 19.06.18 THOVB: Root cause, corrective and preventive actions accepted
IA-18-3	6.5.1			Expired components of first aid kits, expired eye washing liquid, missing MSDS for some of chemicals.	31.05.2018	Closed			The site manager is increasing focus on these issues by having dialog with safety representative and staff.		Closed - 21.06.18 DP: NC is closed based on provided pictures and documents.



ASC Audit Report - Traceability

10	Traceability Factor	Description of risk factor if present.	Describe any traceability, segregation, or other systems in place to manage the risk.
10.1	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, produced within the same operation.		No risk of substitution of certified with non- certified product within the unit of certification as all salmon in the farm is within the scope of the ASC SalmonStandard audit.
10.2	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, present during production, harvest, transport, storage, or processing activities.		No risk of substitution of certified with non-certified product within the unit of certification as all salmon in the farm is within the scope of the ASC SalmonStandard audit. Transports are always identifiable on production unit level (cage). Transport from one seasite to the slaughterhouse at the time, only.



The possibility of subcontractors being used to handle, transport, store, or process certified products.	Only approved wellboats is used during transhipments of salmon between the site and waiting cages/harvest plant. Biosecurity legislation and implemented QMS management system and procedures at the site and within the company prevent the wellboats from visiting/ harvesting from other salmon farms/sites. The possibility for mixture of salmon in waiting cages from salmon from other farm/sites is also prevented by biosecurity legislation and implemented QMS management system and procedures at the site and within the harvesting/processing plant used. There are slaughtered fish from only one waiting cage at a time in the harvest/processing plant Transports are always identifiable on production unit level (cage). All information is kept both in electronic system FishTalk and Innova in hard copies.
Any other opportunities where certified product could potentially be mixed, substituted, or mislabelled with non-certified product before the point where product enters the chain of custody.	No other possibility for mixing products.

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10.5 Detail description of the flow of certified product within the operation and the associated traceability system which allows product to be traced from final sale back to the unit of certification

The company has a robust and well implemented quality system, which covers the whole organization from smolt to finished slaughtered fish. The company is certified according to GLOBALG.A.P in the whole production chain.

All stages of fish live cycle within the scope of this certification standard are traceable. Documents describe a satisfactory control with incoming products, from own freshwater sites, and corresponding documentation of production site, suppliers lists and reception control, both in harvesting and processing. Digital information is handled in Fish Talk for all freshwater stages and on-growing phase in seawater. Subsequent harvest, processing and sales are handled in Innova/Maritech system. It comprises sufficient information of traceability from Broodstock and ova, via smolts to harvestable fish, purchases, invoices and suppliers registers.

The harvest plants are; Cermaq Norway Slakteri F-430, Havneveien 36, 9600 Hammerfest. ASC-C-00687, Exp. date 04.06.2021. Ref. to www.asc-aqua.org where updated information can be found.

10.6 Traceability Determination:

10.6.1 The traceability and segregation systems in the operation are sufficient to ensure all products identified and sold as certified by the operation originate from the unit of certification, or

YES

10.6.2 The traceability and segregation systems are not sufficient and a separate chain of custody certification is required for the operation before products can be sold as ASC-certified or can be eligible to carry the ASC logo.

NA see 10.6.1.



10.6.3 The point from which chain of custody is required to begin.

Products are authorised to enter an ASC Chain of Custody certification at the point where the fish is moved from the wellboat/live fish carrier and delivered direct to the harvest/processing plant. From this point the ASC Salmon Standard certificate stops and the ASC CoC certificate takes over.

The harvest plants are; Cermaq Norway Slakteri F-430, Havneveien 36, 9600 Hammerfest. ASC-C-00687, Exp. date 04.06.2021. Ref. to www.asc-aqua.org where updated information can be found.

As the scope of this ASC Salmon Standard audit is the complete farm, all salmon at the site is included in the scope of this audit, and the fact that the harvest plant has an ASC CoC certification, the risk associated to substitution and mixing of certified with not certified products is very limited or not existing at the site and before the point when the ASC CoC as specified is needed and takes over in the ASC Salmon/ASC CoC certification process.

10.6.4 Is a separate chain of custody certificate required for the producer?

No, not for the unit of certification (Olderfjord farm)

A separate ASC CoC certification is needed, as specified earlier in the report, for activities e.g Harvest, processing and trading of certified products performed after the ASC Salmon Standard certificate scope stops.



ASC Audit Report - Closing

12 Evaluation Results

12.1 A report of the results of the audit of the operation against the specific elements in the standard and guidance documents.

The evaluation of the company's compliance to the requirements in the ASC Salmon Standard and all references and findings is described in detail in the report section II Audit template and section IV Audit Report Closing.

The principles where full compliance was found is listed below:

Principle 1; "Compliance with all applicable local and national legal requirements and regulations".

Principle 2; "Conserve natural habitat local biodiversity and ecosystem function".

Principle 4; "Use resources in an environmentally efficient and responsible manner".

Principle 5; "Manage disease and parasites in an environmentally responsible manner".

Principle 7; "Be a good neighbour and conscientious citizen".

Principle 8; " Standards for supplier of smolt".

For the rest of the principles listed below:

Principle 3; "Protect the health and integrity of wild populations".

Principle 6; "Develop and operate farms in a social responsible manner".

full compliance was not found, although most of these were mainly compliant. The audit hence resulted in a limited number of Minor category Non-Conformities.

Reference is made to ASC Farm certification and Accreditation Requirement 17.4.2 and 17.4.3. As the fish were not at harvest size during the audit, harvest was not overseen by the auditor. The audit was timed without including harvest activities to allow the farm to benefit from certification during the initially audited production cycle. The QMS system used related to harvest and procedures and methodology used for harvesting salmon at the site/company was assessed. Harvest is planned to be observed and assessed during relevant surveillance audit of the site/company

VRs used during audit:

- VR nr.39 approved 15.09.2014 by ASC on phosphorus release from smolt producer. Rationale for use of VR 39 during audit is that as for accepted VR 39 the smolt producers effluent is seawater, and not freshwater.
- VR nr.97 approved 20.08.2015 by ASC for indicator 5.2.5 for PTI Calculations when Slice isused for treatment against sealice. Rationale for use of VR 97 during audit is that as foraccepted VR 97 the site is using slice on small fish and calculate as in VR 97 according to MTB (Maximum Allowed Biomass) for the sea site.

-VR nr.179 approved 24.08.2016 by ASC for audit reports in local language. Rationale for use of VR 179 during this audit is that Scandinavin countires are rated as "very high" in english Proficiency Index.

VR list and updated documentation for VR can be found on the ASC website: http://variance-requests.asc-aqua.org/

12.2 A clear statement on whether or not the audited unit of certification has the capability to consistently meet the objectives of the relevant standard(s).

Olderfjord site capability to consistently meet the objectives of the ASC Salmon

Standard is expected for the future. The unit of certification has a limited numbers Minor NCs at this audit.

Corrective/Preventive action plan and corrective/preventive actions for closing or acceptance and Minor Non conformities are presented and approved by DNV GL.



123 In cases where Biodiversity Environmental Impact Assessment (BEIA) or Participatory Social Impact Assessment (PSIA) is available, it shall be added in full to the audit report. IF these documents are not in English, then a synopsis in English shall be added to the report as well.	Not applicable as MOM-B and MOM-C are benthic biodiversity surveys, only.
13 Decision	
	Yes. The final certification decision has been taken after needed activities, as per ASC
13.1 Has a certificate seen issued. (yes/fis/	Farm Certification and Accreditation Requirements Version 2.1 August 2017.
	• Compliant and thus certified
	compliant and thus certified
13.2 The Eligibility Date (if applicable)	The Eligiblity Date is the date of certification 23.08.2018
	Certificate validity 23.08.2018-23.08.2021
13,3 Is a separate CoC certificate required for	No, not for the unit of certification.
the producer? (yes/no)	
13.4 If a certificate has been issued this section	
13.4.1 The date of issue and date of expiry of the	Certificate validity 23.08.2018 - 23.08.2021
certificate.	
13.4.2 The scope of the certificate	Production of Atlantic salmon (Salmo salar).
232 The stope of the definition	



13.4.3 Instructions to stakeholders that any complaints or objections to the CAB decision are to be subject to the CAB's complaints procedure. This section shall include information on where to review the procedure and where further information on complaints can be found.

Stakeholders can contact DNV GL and/or Lead Auditor as specified in report section I

Audit report opening, contact information is also available in notifications received as stakeholder from DNV GL. Information and documents related to contacting or complaints to DNV GL is available at www.dnvgl.com

14 Surveillance

14.1 Next planned Surveillance

14.1.1 Planned date

14.1.2 Planned site

14.2 Next audit type

14.2.1 Surveillance 1

14.2.2 Surveillance 2

14.2.3 Re-certification

14.2.4 Other (specify type)

019 - Specific date not decided at this stage.	
lderfjord]
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