Form 3 - 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 (except unannounced audits).
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 Public Disclosure Form

PDF 1.1	Name of CAB	Bureau Veritas Certification Denmark A/S
PDF 1.2	**Date of Submission**	18-12-2019
PDF 1.3	**CAB Contact Person**	
PDF 1.3.1	Name of Contact Person	Kar Satir
PDF 1.3.2	Position in the CAB's organisation	Lead Auditor
PDF 1.3.3	Mailing address	Oldenborggade 25-31, 7000 Fredericia, Denmark
PDF 1.3.4	Email address	asc.farm@dk.bureauveritas.com
PDF 1.3.5	Phone number	0045 7731 1100
PDF 1.3.6	Other	www.bureauveritas.dk

PDF 1.4 ASC Name of Client

PDF 1.4.1	Name of the Client	Cermaq Norway AS
PDF 1.4.1.a	Name of the unit of certification	Børøya 20876
PDF 1.4.2	Name of Contact Person	Silje Ramsvatn
PDF 1.4.3	Position in the client's organisation	Sustainability manager
PDF 1.4.4	Mailing address	Nordfoldveien 165, 8286 Nordfold, Norway
PDF 1.4.5	Email address	silje.ramsvatn@cermaq.com
PFD 1.4.6	Phone number	0047 41148216
PDF 1.4.7	Other	www.cermaq.com

PDF 1.5 Unit of Certification

PDF 1.5.1	Single Site	x
PDF 1.5.2	Multi-site	
PDF 1.5.2.a	Ownership status	
PDF 1.5.3	Group certification	

PDF 1.6 Sites to be audited

Site Name	GPS Coordinates	List all species per site and indicate if they are in the scope of the standard	Ownership status (owned/ subcontracted)	Date of planned audit and type of audit (Initial, SA1, SA2, recertification, etc.)	Status (new, in production/ fallowing /in harvest)
Børøya 20876	N: 68.843538 E: 14.855992	Salmon (Salmo Salar) In scope	Owned	12-02-2020 Initial audit	In production

PDF 1.7 Species and Standards

Standard	Species (scientific name) produced	Included in scope (Yes/No)	ASC endorsed standard to be used	Version Number
Abalone 1.1				
Bivalve 1.1				
Freshwater Trout 1.0				
Pangasius 1.1				
Salmon 1.2	Salmon (Salmo Salar)	Yes	ASC Salmon Standard	Version 1.3 - December 2019
Shrimp 1.1				
Tilapia 1.2				
Seriola/Cobia 1.1				
Seabass/ bream and meagre v. 1.1				

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

Name/organisation	Relevance for this audit	How to involve this stakeholder (in-person/phone interview/input submission)	When stakeholder may be contacted	How this stakeholder will be contacted
WWF-Norge	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Norske Lakseelver	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit

Fellesforbundet	Workers union	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Kystverket	Authorities	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Naturvernforbundet	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Norges Kystfiskarlag	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Mattilsynet	Authorities	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Norsk Ornitologisk Forening	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Fiskeridirektoratet	Authorities	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Norges Jeger- og Fiskerforbund	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit

Norges Miljøvernforbund	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Norges Fiskarlag	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Miljødirektoratet	Authorities	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Nordland Fylkeskommune	Regional Municipality	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Steigen kommune	Local Municipality	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Fylkesmannen i Nordland	Regional Municipality	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Øksnes Kommune	Local Municipality	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Nordland Fylkes Fiskarlag	Local Fishermens` Association	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit

Øksnes Fiskarlag	Local Fishermens` Association	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Bø kystfiskarlag	Local Fishermens` Association	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit

PDF 1.9 Proposed Timeline

PDF 1.9.1	Contract Signed:	29-11-2018
PDF 1.9.2	Start of audit:	11-02-2019
PDF 1.9.3	Onsite Audit(s):	11. - 14.02.2019
PDF 1.9.4	Determination/Decision:	A certificate has been issued, based on the outcome of the audit.

PDF 1.10 Audit Team

	Column1	Name	ASC Registration
PDF 1.10.1	Lead Auditor	Kar Satir	
PDF 1.10.2	Team member	Lars Erik Flatøy	
PDF 1.10.3	Social Auditor	Lars Erik Flatøy	

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 (in working day)

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
1.2 Report Title [e.g. Public Draft Certification Report/ Final certification report/Surveillance report]	12-02-2020 Cermaq Børøya ASC Initial audit Final Report
1.3 CAB name	Bureau Veritas Certification Denmark A/S
1.4 Name of Lead Auditor	Kar Satir
1.5 Names and positions of report authors and reviewers	Report Author: Kar Nazende Satir, ASC Lead Auditor, Lars Erik Flatøy, Auditor. Reviewer: Shahram Zadeh, technical reviewer. Shadow reviewer: Annette Kaalund, Quality assistant.
1.6 Client's Contact person: Name and Title	Silje Ramsvatn, Sustainability manager
1.7 Date	Date of audit 11.-14.02.2020. Date of report writing: 17.02.2020

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	B - survey and C - surveys: Surveys of benthic environment at or near farm, according to NS 9410:2016 (Norwegian Standard 9410). NFSA: Norwegian Food Safety Authority. "Nytek" NS9415 (Norwegian Standard 9415): Technical certifications of Marine fish farms with Requirements for design, dimensioning, production, installation and operation. MTB: Maximum Allowed Biomass. FHP: is Fish Health Plan. GG: GLOBALG.A.P. IFA (Integrated Farm Assurance. GGN: GLOBALG.A.P. unique registration number. NINA: Norwegian institute for Nature Research. IMR: Institute of Marine Research. NLA: Norwegian Labor Association

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 (i*ncluding activities of the UoC being audited*)	The UoC is ia s fish farm farming atlantic salmon, Salomo salar. It consists of 4 160 m cages and a feed barge containing the feeding system and feed storage. The barge is not manned other than during receive of feed form vessles, refill of feed silos and maintenance work. Feed ing is operated from a cetralized feed control center on landbase Sandset. The UoC was audited against all the principles and criteria in ASC Salmon Standard – version 1.3 - July 2019. The audit include interview of the farm workers and review of documentation. Harvest was not observed at this initial audit.
4.2	A brief description of the operations of the unit of certification	The unit of certification is the entire Børøya seafarm, site number 20876. Børøya is an ongrowing farm for Atlantic Salmon from smolt and until the salmon is ready for slaughtering. The farm is located in Børrøyfjorden waterbody in Vesterålen, Øksnes municipality in Nordland County. The production system is based on 4 cages 160 m. The MTB is 3120 tons.

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

4.4.1 Number of sites included in the unit of certification

	Owned by client	Subcontracted by client
Initial audit - mm/yyyy	1	
Surveillance audit 1 - mm/ yyyy		
Surveillance audit 2 - mm/ yyyy		
Recertification audit - mm/ yyyy		

4.5	A summary of the major findings	10 NCs were raised against indicators 1.1.1, 2.1.1, 2.1.2, 2.1.3, 2.2.1, 2.2.6, 2.3.1, 3.4.3, 6.5.3 and 7.1.1.

4.6	The Audit determination	The unit of certification does have capability to consistently meet the objectives of the relevant ASC salmon standard - version 1.3. The biomass of the production had not reached 75% as the audit planning was done earlier then it had to be. Harvest is expected in summer (July/August). This is considered during certification decision. Site was fallow between 2012 and the stocking in week 48/2019. Regarding to the minor non conformities for the indicators 2.1.1, 2.1.2 and 2.1.3 are extended until next surveliance audit dated 11th Feb 2021. Cermaq request delay of close-out because they need to be sure that they reach peak biomass before doing another sampling, and since reaching peak biomass is out of their control we will not be able to close the NC by original due date 14.05.20. If everything goes as planned they will conduct sampling in august and could have the results within a month, but since biomass is dynamic they can't say for sure that the farm reach peak biomass in august, it may be sooner or later however deadline for those minor non conformities are extended for a year period. There is another extended non confirmity for 7.1.1 The request delay of close-out because Cermaq is not able to arrange stakeholder meetings during the Corona outbreak. Cermaq is ready to hold the meeting and will book a date as soon as its safe.

5 CAB Contact Information

5.1	CAB Name	Bureau Veritas Certification Denmark AS
5.2	CAB Mailing Address	Oldenborggade 25-31, 7000 Fredericia, Denmark
5.3	Email Address	asc.farm@bureauveritas.com
5.4	Other Contact Information	www.bureauveritas.dk

6 Background on the Applicant

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

6.2	A description of the unit of certification (*for intial audit)* / changes, if any (*for surveillance and recertification audits)*	Børøya is a conventional floating cage salmon farm. The 4 production cages are circular floating plastic rings with the dimension 160 m circumference, with pointed nets. Farm has a 200 ton concrete feed barge, with feeding system and fed storage. Feeding is centralized to the landbase Sandset, and operated by 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/
6.3	Other certifications currently held by the unit of certification	
6.4	Other certification(s) obtained by the UoC before this audit	Global GAP GGN 4052852632539
6.5	Estimated annual production volumes of the unit of certification of the current year	Biomass at time of audit: 1192886 kg (706268 fish, average weight 1,689 kg). Total MTB 3120 Mt
6.6	Actual annual production volumes of the unit of certification of the previous year *(mandatory for surveillance and recertification audits)*	Site has been fallowed since 2012. No data available
6.7	Production system(s) employed within the unit of certification *(select one or more in the list)*	Floating net-pens/cages
6.8	Number of employees working at the unit of certification (*see notes in comment to this cell*)	10 permanent employees plus site manager and land base manager. They are all shared between Børøya, Dypeidet, Langøyhovden and Gisløy S sites.
6.9	Size, and/or number of ponds, pens (if multi site, per site)	4 cages with the dimension 160 m circumference

7 Scope

7.1	The Standard(s) against which the audit was conducted, including version number	ASC Salmon Standard, version 1.3 July 2019
7.2	The species produced at the applicant farm (*in English and Latin names)*	Atlantic Salmon (Salmo salar)
7.3	A description of the scope of the audit including a description of whether the unit 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.	Scope of audit is to verify the salmon farm site Børøyas compliance against the ASC Salmon Standard – version 1.3 - July 2019. The UoC audited includes the complete production system of Børøya farm, consisting of 6 x 120 m cages and a feed barge. No sub-sites are operated by the farm.
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.	N/A

7.5	Description of the receiving water body(ies).	The farm is located in municipality of Øksnes, in Nordland country. GIS posistion: 14.856247274767686, 68.8457400488609 Sites receiving water-body is Børrøyfjorden. Regional water-body authority is Nordland Fylkeskommune. This is a coastal water area. Categorised as a coastal fjord, of Euhaline nature (>30). Ecological quality is defined as good. Chemical condition is defined good. 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.	Lead auditor: Kar Satir Auditor: Lars Erik Flatøy Audit: 11 - 14 February 2020 Reporting last submit date after technical review: 24.03.2020. Report review: Sharam Zadeh, Technical reviewer - 14-03-2020 Shadow review: Annette Kaalund, Quality assistent - 20-03-2020 Certificate desicion: Shahram Zadeh - 18-05-2020

8.2 Previous Audits (if applicable):

	NC reference number	Standard clause reference	Closing deadline - status - closing date of 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/ yyyyy			
Scope extention audit mm/ yyyy			

8.3 Audit plan as implemented including:

		Dates	Locations
8.3.1	Desk Reviews	January 2020	Bureau Veritas Certification, Fredericia, Denmark
8.3.2	Onsite audits	11-14.02.2020	Site Børøya and landbase Sandset, Øksnes, Norway
8.3.3	Stakeholder interviews and Community meetings	11-14.02.2020	No stakeholder attended the audit
8.3.4	Draft report sent to client	25-03-2020	Bureau Veritas Certification, Fredericia, Denmark
8.3.5	Draft report sent to ASC	25-03-2020	Bureau Veritas Certification, Fredericia, Denmark
8.3.6	Final report sent to Client and ASC	18-05-2020	Bureau Veritas Certification, Fredericia, Denmark

8.4 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, Sustainability manager
Ingunn S. Johnsen, Sustainability coordinator
Tiril Slettjord, Fish Health Area manager Nordland
1 Site manager and 11 employees

8.5 Stakeholder submissions, including written or other documented information and CAB written responses to each submission at different stages of the certification process (audit notification, during on-sitt audit, public comment period)

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

8.6	E5.1.i List of sites exempted from the scope of an initial audit and how they meet conditions in E5.1.i	
8.6.1	E5.1.ii Justification for auditing site(s) meeting conditions under E5.1.i	
8.7	E5.1.1.i List of sites removed after the initial audit	
8.7.1	E5.2.2 Reason for the removal of sites from the certificate.	
8.8	E5.4 Map of sites included in the unit of certification has been attached	
8.9	E5.5 Site(s) in fallowing period included in the audit (*only for surveillance and re-certification audits)*	

Audit report- ASC Salmon Standard v.1.3

Corresponds to Salmon standard v. 1.3

PRINCIPLE 1: COMPLY WITH ALL APPLICABLE NATIONAL LAWS AND LOCAL REGULATIONS

Criterion 1.1 Compliance with all applicable local and national legal requirements and regulations

Indicator		Compliance Criteria (Use as guidance for audit only)	Audit evidence 1. Write down all audit evidence. 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. 3. If you see any Compliance Criteria which is not listed below, please describe also in the cells below. A. Review compliance with applicable land and water use laws.	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
1.1.1	**Indicator:** Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use **Requirement:** Yes **Applicability:** All	a. Maintain digital or hard copies of applicable land and water use laws. b. Maintain original (or legalised copies of) lease agreements, land titles, or concession permit on file as applicable. 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). d. Obtain permits and maps showing that the farm does not conflict with national preservation areas.	a) 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. b) Aquaculture licence salmonoids issued by Nordland Fylkeskommune 04.12.2014, ref 14/4453 for Lisence 20875 Børøya, 3120 MTB. Permist included in site (ref www.barentswatch.com and https://register.fiskeridir.no/akvareg): N-HM-05, N-SG-18, N-SG-29, N-SG-37, N-SG-38, N-SG-39, N-Ø-04, N-Ø-07, N-Ø-17 Approved operating plan for 2019-2020 from Fisheries Directorate dated 26.02.2019 with reference number of 18/15753 for sites Børøya, Dypeidet and Langøyhovden. Discharge permit from Fylkesmannen i Nordland, ref 2006/4762 date 06.12.2011 Discharge permit for 3120 MTB. c) No inspections since last audit d) 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 NC: Site inspection on Børøya: Lack of sign" KAT 2 Dødfisk ensilasje on dead fish ensilage tank onboard barge"	Minor	Lack of this sign is a breach on provisions in the animal by-product regulation https://lovdata.no/dokument/SF/forskrift/2016-09-14-1064 and therefore not in compliance with all applicable local and national legal requirements and regulations regarding aquaculture land and water use. Failure does not meet the definition of a major Non-conformity and is not likely to result in the breakdown of a system to meet an ASC requirement.	
1.1.2	**Indicator:** Presence of documents demonstrating compliance with all tax laws **Requirement:** Yes **Applicability:** All	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. b. Maintain copies of tax laws for jurisdiction(s) where company operates. c. Register with national or local authorities as an “aquaculture activity".	a) Authorised auditor report/statement for organisation number 980211282, dt.01.07.2019 by Deloitte. For accounting year ending 31.03.2019 b) Lovdata access to updated versions in quality system Intelex. Automatic notification to organization if changes in regulations that affect organization. c) Aquaculture lisence salmonoids issued by Nordland Fylkeskommune 04.12.2014, ref 14/4453 for Lisence 20875 Børøya, 3120 MTB. Approved operating plan for 2019-2020 from Fisheries Directorate dated 26.02.2019 with reference number of 18/15753. Discharge permit from Fylkesmannen i Nordland, ref 2006/4762 date 06.12.2011 Discharge permit for 3120 MTB.	Compliant		
1.1.3	**Indicator:** Presence of documents demonstrating compliance with all relevant national and local labor laws and regulations **Requirement:** Yes **Applicability:** All	a. Maintain copies of national labor codes and laws applicable to farm (scope is restricted to the farm sites within the unit certification.) 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).	a) Lovdata access to updated versions in quality system Intelex. Automatic notification to organization if changes in regulations that affect organization. b) No inspections performed by Arbeidstilsynet or other official parties regulation labor laws and codes.	Compliant		

1.1.4	**Indicator:** Presence of documents demonstrating compliance with regulations and permits concerning water quality impacts **Requirement:** Yes **Applicability:** All	a. Obtain permits for water quality impacts where applicable. b. Compile list of and comply with all discharge laws or regulations. c. Maintain records of monitoring and compliance with discharge laws and regulations as required.	a) Discharge permit from Fylkesmannen i Nordland, ref 2006/4762 date 06.12.2011 Discharge permit for 3120 MTB. B) As described in above permits. B-Survey and C-survey according to Norwegian legislation and NS9410:2016 performed by Akvaplan Niva, an accredited company c) Current biomass 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. 04.12.18. Compliance assessments are performed annually against all official regulations. "Prosedyre for samsvarsforpliktelse" doc 405, 19/7-2019 - instruction on how to perform compliance assesments including discharge requirements, frequense and responsible. Seen last assessment dated 20.12.2019, including discharge laws.	Compliant		
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.						
2.1.1	**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]	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. 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. 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. c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard. 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). e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing method. f. For option #2, measure and record sulphide concentration (µM) using an appropriate, nationally or internationally recognized testing method. 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.	A) ASC- and C-Survey report contains Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime ASC- and C-Survey according to ISO 5567-19:2004 og ISO 16665:2014. Modified C-Survey according to NS 9410:2016, but in early production cycle, ref rAkvaplan Niva report part 5.1 and 5.2. (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019. VanVeen grab used according to established method. Done at early cycle (840 ton biomass), as site has been fallowed since 2012. A new C-survey is scheduled at peak biomass. B) Bottom is sand, shell sand and silt/clay C) Option #1 D) Site-specific sampling regime (C-Survey) Modified C-survey according to NS 9410:2016 (Norwegian authortites and legislation requirement) . Done at early cycle (840 ton biomass), as site has been fallowed since 2012. E) Redox Eh values ranging from 202-335 mV F) Option #1 choosen National regulations (NS 9410) G) Submitted to ASC in email dt.02-02-2020	Minor	Sampling not performed at peak biomass. Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019. As site has been proactive to get survey data in early cycle, and will perform new survey at peak biomass.	202 - 335 mV
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 defined under this standard as 30 meters. For farm sites where a site-specific AZE has been defined using a robust and credible modeling system such as the SEPA AUTODEPOMOD and verified through monitoring, the site-specific AZE shall be used.					

2.1.2	**Indicator:** Faunal index score indicating good [4] to high ecological quality in sediment outside the AZE, following the sampling methodology outlined in Appendix I-1 **Requirement:** AZTI Marine Biotic Index (AMBI [5]) score ≤ 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]	Notes: - Under Indicator 2.1.2, farms can choose one of four measurements to show compliance with the faunal index Requirement: AMBI (Option #1); Shannon-Wiener Index (Option #2); BQI (Option #3); or ITI (Option #4). Farms do not have to demonstrate that they meet all four threshold values. - If a farm is exempt due to hard bottom benthos (see 2.1.1b), then 2.1.2 does not apply and this shall be noted in the audit report.				
		a. Prepare a map showing the AZE (30 m or site specific) and sediment collections stations (see 2.1.1).	A) ASC- and C-Survey report contains Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime ASC- and C-Survey according to ISO 5567-19:2004 og ISO 16665:2014. Modified C-Survey according to NS 9410:2016, but in early production cycle, ref rAkvaplan Niva report part 5.1 and 5.2. (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019. VanVeen grab used according to established method. Done at early cycle (840 ton biomass), as site has been fallowed since 2012. A new C-survey is scheduled at peak biomass. b) Opt #2 Shannon Wierner used. c) Van Veen grab used according to site specific C-Survey (NS9410:2016) Done at early cycle (840 ton biomass), as site has been fallowed since 2012. d) Opt #2 Shannon Wierner used. e) Shannon Wierner ranging from 4,29 - 4,93 for current production cycle. Past production cycle was in 2012. f) Opt #2 Shannon Wierner used. g) Opt #2 Shannon Wierner used. h) C-Survey as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory performed the sampling and calculation of faunal index. i) Submitted to ASC in email dt. 02-02-2020	Minor	Sampling not performed at peak biomass. (>75%) Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019.	Shannon Wiener 4,29 - 4,93
		b. Inform the CAB whether the farm chose option #1, #2, #3, or #4 to demonstrate compliance with the requirement.				
		c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1).				
		d. For option #1, measure, calculate and record AZTI Marine Biotic Index [5] score of sediment samples using the required method.				
		e. For option #2, measure, calculate and record Shannon-Wiener Index score of sediment samples using the required method.				
		f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment samples using the required method.				
		g. For option #4, measure, calculate and record Infaunal Trophic Index (ITI) score of sediment samples using the required method.				
		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.				
		i. Submit faunal index scores to ASC (Appendix VI) at least once for each production cycle.				
Footnote	[4] "Good" Ecological Quality Classification: The level of diversity and abundance of invertebrate taxa is slightly outside the range associated with the type-specific conditions. Most of the sensitive taxa of the type-specific communities are present.					
Footnote	[5] http://www.azti.es/en/ambi-azti-marine-biotic-index.html.					

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]	a. Document appropriate sediment sample collection as for 2.1.1a and 2.1.1c, or exemption as per 2.1.1b. 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. e. Submit counts of macrofaunal taxa to ASC (Appendix VI) at least once for each production cycle.	a-b) ASC- and C-Survey report contains Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime ASC- and C-Survey according to ISO 5567-19:2004 og ISO 16665:2014. Modified C-Survey according to NS 9410:2016, but in early production cycle, ref rAkvaplan Niva report part 5.1 and 5.2. (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019. VanVeen grab used according to established method. Done at early cycle (840 ton biomass), as site has been fallowed since 2012. A new C-survey is scheduled at peak biomass. c) >10 highly abundant taxa found in stations C1 and C5 within AZE. d) B- Survey and C-Survey as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory performed the sampling and calculation of faunal index. e) Submitted to ASC in email dt.02-02-2020	Minor	Sampling not performed at peak biomass. (>75%) Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019.	> 10
Footnote	[6] Highly abundant: Greater than 100 organisms per square meter (or equally high to reference site(s) if natural abundance is lower than this level).					
2.1.4	**Indicator:** Definition of a site-specific AZE based on a robust and credible modelling system **Requirement:** Yes **Applicability:** All farms except as noted in [1]	a. Undertake an analysis to determine the site-specific AZE and depositional pattern. b. Maintain records to show how the analysis (in 2.1.4a) is robust and credible based on modeling using a multi-parameter approach [7]. c. Maintain records to show that modeling results for the site-specific AZE have been verified with > 6 months of monitoring data.	a) Site-specific sampling regime C-Survey - ASC adapted/NS9410:2016. Modified C-Survey according to NS9410:2016 (Norwegian authortites and legislation requirement) survey developed and performed by Akvaplan Niva. b-c) Report nr. 61756.01 dt 28.01.2020. by Akvaplan Niva included data for the site in the period from 2008 to 2012 and from January 2018 to December 2019	Compliant		
Footnote	[7] Robust and credible: The SEPA AUTODEPOMOD modeling system is considered to be an example of a credible and robust system. The model must include a multi-parameter approach. Monitoring must be used to ground-truth the AZE proposed through the model.					

Criterion 2.2 Water quality in and near the site of operation [8]						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
Footnote	[8] See Appendix VI for transparency requirements for 2.2.1, 2.2.2, 2.2.3 and 2.2.5.					
2.2.1	**Indicator**: Weekly average percent saturation [9] of dissolved oxygen (DO) [10] on farm, calculated following methodology in Appendix I-4 **Requirement:** ≥ 70% [11] **Applicability:** All farms except as noted in [11]	**Instruction to Clients for Indicator 2.2.1 - Monitoring Average Weekly Percent Saturation of Dissolved Oxygen** Appendix I-4 presents the required methodology that farms must follow for sampling the average weekly percent saturation of dissolved oxygen (DO). Key points of the method are as 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 afternoon (3-6 pm) as appropriate for the location and season; - 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 by fish (e.g. at the downstream edge of a net pen array): - each week, all DO measurements are used in the calculation of a weekly average percent saturation. If monitoring deviates from prescribed sampling methodology, the farm shall provide the auditor with a written justification (e.g. when samples are missed due to bad weather). In limited and well-justified situations, farms may request that the CAB approve reduction of DO monitoring frequency to one sample per day. Exception [see footnote 12] If a farm does not meet the minimum 70 percent weekly average saturation requirement, the farm must demonstrate the consistency of percent saturation with a reference site. The reference site shall be at least 500 meters from the edge of the net pen array, in a location that is understood to follow similar patterns in upwelling to the farm site and is not influenced by nutrient inputs from anthropogenic causes including aquaculture, agricultural runoff or nutrient releases from coastal communities. For any such exceptions, the auditor shall fully document in the audit report how the farm has demonstrated consistency with the reference site. Note 1: *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 salinity.				
		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.	a) Continuos logging (Realfish from Innovasea) of oxygen, temperature and salinity at 2 sampling stations at site: Own sites in proximity to the site is used as reference stations. Data available from stocking of fish at Dypeidet 27.05.2019, to moved to Børøya week 48/2019 to audit date. b) No missed data c) Seen record for the period week 48/2019 (stocking) to week 7/2020 (audit) for the current generation Percent = ≥ 70 % d) No measurements below 70 % dissolved oxygen has been registered/observed. e) Monitoring of oxygen and calibration routines verified on site. Good knowledge, instructions from equipment producer available. f) Submitted to ASC in email dt.02.02-2020	Minor	On-farm saturation of DO records does not include 6 months of data for the initial audit.	> 70%
		b. Provide a written justification for any missed samples or deviations in sampling time.				
		c. Calculate weekly average percent saturation based on data.				
		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).				
		e. Arrange for auditor to witness DO monitoring and calibration while on site.				
		f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.				
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 salinity.					
Footnote	[10] Averaged weekly from two daily measurements (proposed at 6 am and 3 pm).					
Footnote	[11] An exception to this standard shall be made for farms that 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 **Requirement:** 5% **Applicability:** All	a. Calculate the percentage of on-farm samples taken for 2.2.1a that fall under 2 mg/L DO.	a) All above limits. b) Submitted to ASC in email dt.02-02-2020	Compliant		Above 2 mg/l
		b. Submit results from 2.2.2a as per Appendix VI to ASC at least once per year.				

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]	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	a-c) EU Water Directive 2000 gives Water quality objectives for area Børøyfjorden (ref. "vannportalen.no). Nordland Fylkeskommune authority. Øksnes muncipility") ecological conditions good -chemical condition good	Compliant		
		b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification.				
		c. Identify the most recent classification of water quality for the area in which the farm operates.				
Footnote	[12] Related to nutrients (e.g., N, P, chlorophyll A).					
Footnote	[13] Within the two years prior to the audit.					
Footnote	[14] Classifications of "good" and "very good" are used in the EU Water Framework Directive. Equivalent classification from other water quality monitoring systems in other jurisdictions are acceptable.					
Footnote	[15] Closed production systems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients as well as > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exempt from 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]	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.	a-c) N/A	Compliant		
		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.				
Footnote	[16] Farms shall monitor total N, NH4, NO3, total P and Ortho-P in the water column. Results shall be submitted to the ASC database. Methods such as a Hach kit are acceptable.					

2.2.5	**Indicator**: Demonstration of calculation of biochemical oxygen demand (BOD [17]) of the farm on a production cycle basis **Requirement:** Yes **Applicability:** All	**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 to the environment over the course of the production cycle. 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 as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to harvested fish. In this case, farm must submit breakdown of N & C captured/filtered/absorbed to ASC along with method used to estimate nutrient reduction. • Reference for calculation methodology: Boyd C. 2009. Estimating mechanical aeration requirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the World Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruz, Mexico. And: Global Aquaculture Performance Index BOD calculation methodology available at http://web.uvic.ca/~gapi/explore-gapi/bod.html. Note 1: Calculation requires a full production cycle of data and is required beginning with the production cycle first undergoing certification. If it is the first audit for the farm, the client is required to demonstrate to the CAB that data is being collected and an understanding of the calculations. Note 2: Farms may seek an exemption to Indicator 2.2.5 if: the farm collects BOD samples at least once every two weeks, samples are independently analyzed by an accredited laboratory, and the farm can show that BOD monitoring results do not deviate significantly from calculated annual BOD load.				
		a. Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box.	Not harvested, produced biomass 20.01.20 [mt] 3 005,00 Total amount of feed for production cycle [mt] 3 405,00 C content in feed (%)* 53,90 N content in feed (%)** 6,10 C content in fish (%)*** 50,00 N content in fish (%)*** 3,00 Total C in feed for production cycle [mt] 1 835,30 Total N in feed for production cycle [mt] 207,71 Total C in fish (species specific) [mt] 1 502,50 Total N in fish (species specific) [mt] 90,15 **BOD [mT O2] 1425,79** b) Submitted to ASC by email dt 02-02-2020	Compliant		1425,79 mT O2
		b. Submit calculated BOD as per Appendix VI to ASC for each production cycle.				
Footnote	[17] BOD calculated as: ((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 as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to harvested fish. Reference for calculation methodology: Boyd C. 2009. Estimating mechanical aeration requirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the World Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruz, Mexico. And: Global Aquaculture Performance Index BOD calculation methodology available at http://web.uvic.ca/~gapi/explore-gapi/bod.html.				
2.2.6	**Indicator**: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicals, including veterinary drugs, thereby ensuring that adverse impacts on environmental quality are minimised. **Requirement:** Yes **Applicability:** All	a. Document control systems in good culture and hygene that includes all appropriate elements.	a) Procedure "Hygienereglement - Matfisk" ID 127, dt. 3/10-2019 doc 127 rev 6 includes subjects such as clothing, PPE, personal hygiene, hand hygiene, diseas control, comptence requirements. Prosedure "Prosedyre for oppbevaring håndtering av kjemikalier og gasser", ID 473. b) In general site and landbase has a good system for hygiene, handling chemicals and waste, and teh system is well implemented. Landbase Sandset - Storage of chemicals and chemical waste; Chemicals and chemical waste stored together in same area. Personnel unfamiliar with storage area will have challange to separate waste from chemicals to use , and potential for mixing is present. In addition acid tank was not proberly locked.	Minor	Lack of control of chemicals in storage Landbase Sandset. In general site and landbase has a good system for handling chemicals and waste, and implementation of system is in general good. The non-conformity is considered and isolated incident, and not a systemic NC. Therefor Minor NC is given. Inspected at visit at landbase Sandset by auditor Kar Satir and Lars Erik Flatøy.	
		b. Apply the systems ensuring that staff are aware, qualified and trained to proberly implement them.				
		-				

Criterion 2.3 Nutrient release from production						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
2.3.1	**Indicator**: Percentage of fines [18] in the feed at point of 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]	Note: The methodology given in Appendix I-2 is used to determine the fines (dust and small fragments) in finished product of fish feed which has a diameter of 3 mm or more.				
		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.	a) Percentage of fines according to requirements. Registrations and calculations ranging from 0,1 to 0,3% . Monthly testing according to internal QMS Intelex procedure "Prosedyre fôrmottak og lagring" ID 260, dated 27.09.17 b) Appropriate testing technology as per ASC. All feed fine tests performed at sites landbase with sieving system and weights. c) Feed fine test log for site Børøya did not contain correct data. NC	Minor	Site has performed fines test of feed according to procedure for feed receive and storag, ID 260, dated 18.11.2019. Test from 15/1-2020 was seen. During audit it was discovered that the file containing the feed fine test results were corrupt, and earlier data could not be displayed. File data can be restored from manual registrations, but site was not able to correct this during audit, and auditor could not verifiy the results of the tests.	<1%
		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.				
Footnote	[18] Fines: Dust and fragments in the feed. Particles that separate from feed with a diameter of 5 mm or less when sieved through a 1 mm sieve, or particles that separate from feed with a diameter greater than 5 mm when sieved through a 2.36 mm sieve. To be measured at farm gate (e.g., from feed bags after they are delivered to farm).					
Footnote	[19] To be measured every quarter or every three months. Samples that are measured shall be chosen randomly. Feed may be sampled immediately prior to delivery to farm for sites with no feed storage where it is not possible to sample on farm. Closed production systems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients and > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exempt.					
Criterion 2.4 Interaction with critical or sensitive habitats and species						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
2.4.1	**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	Note: If a farm has previously undertaken an independent assessment of biodiversity impact (e.g. as part of the regulatory permitting process), the farm may use such documents as evidence to demonstrate compliance with Indicator 2.4.1 as long as all components in Appendix I-3 are explicitly covered.				
		a. Perform (or contract to have performed) a documented assessment of the farm's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3.	a-c) Impacts consequence assessment performed according to Appendix I-3. Document "Konsekvensutredning ytre miljø– Vesterålen" dated 02.08.2019. Includes action and control points related to specific risks for the site (table 2, 3, 4, 5) Cermaq Group AS annual corporate 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 Marginal impacts identified. Action and control points defined in Konsekvensutredning ytre miljø–Vesterålen" dated 02.08.2019. table 2, 3, 4, 5. Ref also license permit and assessment as part of the regulatory permitting process. Site Børøya has risk assessment for environmental impact with developed actions for potential environmental and biodiversity risks from site. Last assessment dated 30.04.2019. B-Survey performed January 2018 (Ref APN10026.01) C-Survey performed January 2018 (ref APN10026.02), C-survey performed December 2019 (ref 61756.01). All surveys performed by Akvaplan Niva according to requirements in national legislation and NS9410:2016. C-survey report December 2019 includes statement that survey is performed according to NS9410:2016, but at early biomass.	Compliant		
		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.				
		c. Keep records to show how the farm implements plan(s) from 2.4.1b to minimize potential impacts to critical or sensitive habitats and species.				

2.4.2	**Indicator**: Allowance for the farm to be sited in a protected area [20] or High Conservation Value Areas [21] (HCVAs) **Requirement:** None [22] **Applicability:** All farms except as noted in [22]	**Instruction to Clients for Indicator 2.4.2 - Exceptions to Requirements that Farms are not sited within Protected Areas or HCVAs** 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 Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes or for sustainable resource management). Exception #2: For HCVAs if the farm can demonstrate that its 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. Exception #3: 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 its 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. **Definitions** Protected area: "A clearly defined geographical space, recognized, dedicated and managed through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values." High Conservation Value Areas (HCVA): Natural habitats where conservation values are considered to be of outstanding significance or critical importance. HCVA are designated through a multi-stakeholder approach that provides a systematic basis for identifying critical conservation values—both social and environmental—and for planning ecosystem management in order to ensure that these high conservation values are maintained or enhanced				
		a. Provide Geographical Information System (GIS) files according to ASC guidelines (see note above) showing the boundaries of the farm relative to nearby protected areas or High Conservation Value Areas (HCVAs) as defined above (see also 1.1.1a)	a) GIS data provided by farm on Map and .json file according to requirement in standard. GIS position Børøya 14.856247274767686,68.8457400488609 plotted in to gis.asc-aqua.org/arcgis_app/. Position were in compliance with position visited by auditors, and as described in MOM B and MOM C reports issued by Akvaplan Niva in 2019. Site is not in or close to a HCVA accordng to ASC database. This was cross checked againts 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. b) 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) Not within HCVA d) Not within HCVA	Compliant		0
		b. If the farm is not 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.				
		c. If the farm is 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.				
		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.				
Footnote	[20] Protected area: "A clearly defined geographical space, recognized, dedicated and managed through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values." Source: Dudley, N. (Editor) (2008), Guidelines for Applying Protected Area Management Categories, Gland, Switzerland: IUCN. x + 86pp.					
Footnote	[21] High Conservation Value Areas (HCVA): Natural habitats where conservation values are considered to be of outstanding significance or critical importance. HCVA are designated through a multi-stakeholder approach that provides a systematic basis for identifying critical conservation values—both social and environmental—and for planning ecosystem management in order to ensure that these high conservation values are maintained or enhanced (http://www.hcvnetwork.org/).					
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 its 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 its 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 wildlife, including predators [23]						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
Footnote	[23] See Appendix VI for transparency requirements for 2.5.2, 2.5.5 and 2.5.6.					
2.5.1	**Indicator**: Number of days in the production cycle when acoustic deterrent devices (ADDs) or acoustic harassment devices (AHDs) were used **Requirement:** 0 **Applicability:** All	a. Compile documentary evidence to show that no ADDs or AHDs have been used by the farm. -	No use of ADDs or AHDs. Verified by onsite inspection and interview with employees.	Compliant		0
2.5.2	**Indicator**: Number of mortalities [25] of endangered or red-listed [26] marine mammals or birds on the farm **Requirement:** 0 (zero) **Applicability:** All	a. Prepare a list of all predator control devices and their locations. b. Maintain a record of all predator incidents. c. Maintain a record of all mortalities of marine mammals and birds on the farm identifying the species, date, and apparent cause of death. d. Maintain an up-to-date list of endangered or red-listed marine mammals and birds in the area (see 2.4.1) -	a) Birdnets located above the net cages are only predator control devices used. b) Records of predator control maintained on site. All incidents registered in TQM, and communicated to public on www.cermaq.com Dshboard for ASC reporting (List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/). No marine mammals incidents registered. No bird entanglement incidents or predator control incidents registered in list, TQM or Dashboard. Verified by employees in interviewes during audit. c) Records controlled on site (predator lists, TQM and Cermaq Dashboard) Verified compliance in interviewes with employees d) Red list of endangered or red-listed marine mammals and birds in the area from "Norsk Rødliste for arter-2018" - fra Artsdatabanken".	Compliant		0
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 endangered by the IUCN or on a national endangered species list.					
2.5.3	**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 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] **Applicability:** All except cases where human safety is endangered as noted in [28]	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. 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. 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	N/A		
Footnote	[27] Lethal action: Action taken to deliberately kill an animal, including marine mammals and birds.					
Footnote	[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.

2.5.4	**Indicator**: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29] **Requirement:** Yes **Applicability:** All	a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.	a, b, c) List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/; Showing no lethal incidents	Compliant		
		a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.				
		b. Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available (e.g. on a website).				
Footnote	[29] Posting results on a public website is an example of “easily publicly available.” Shall be made available within 30 days of the incident and see Appendix VI for transparency requirements.					
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 than two of the incidents being marine mammals **Applicability:** All	a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, > 6 months of data are required.	a, b) No lethal incidents or incidents involving marine mammals last 2 years. Verified by reviewing lists at site, TQM registrations and interviews with employees. List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/; Showing no lethal incidents c) Submitted to ASC in email dt.02-02-2020	Compliant		0
		b. Calculate the total number of lethal incidents and the number of incidents involving marine mammals during the previous two year period.				
		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).				
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 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 **Requirement:** Yes **Applicability:** All	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.	a, b) Risk assessment for Børøya "Ytre miljø", dt.30.04.2019 include predator control, lethal incidents and wildlife protection	Compliant		
		b. Provide documentary evidence that the farm implements those steps identified in 2.5.6a to reduce the risk of future lethal incidents.				

PRINCIPLE 3: PROTECT THE HEALTH AND GENETIC INTEGRITY OF WILD POPULATIONS						
Criterion 3.1 Introduced or amplified parasites and pathogens [34, 35]						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
Footnote	[32] Farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the standards under Criterion 3.1.					
Footnote	[33] See Appendix VI for transparency requirements for 3.1.1, 3.1.3, 3.1.4, 3.1.6 and 3.1.7.					
Instruction to Clients and CABs on Exemptions to Criterion 3.1 According to footnote [32], farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the requirements under Criterion 3.1. More specifically, farms are only eligible for exemption from Criterion 3.1 if it can be shown that either of the following holds: 1) the farm does not release any water to the natural environment; or 2) any effluent released by the farm to the natural environment has been effectively treated to kill pathogens (e.g. UV and/or chemical treatment of water with testing demonstrating efficacy). Auditors shall fully document the rationale for any such exemptions in the audit report.						
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]	a. Keep record of farm's participation in an ABM scheme. 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. 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. d. Submit dates of fallowing period(s) as per Appendix VI to ASC at least once per year.	a) The ABM 201811 Overordnet plan Hålogaland 2019/Malnesfjorden- Myre Øksnes Vestbygd 11238 Lamgøyhovden; 13412 Dypeidet; 20876 Børøya and Gisløy 20897 Gisløy S dated 29.11.2018. and valid from 1.12.2018 approved by Kaja Nordland, subregional koordinator. The date of the ABM is from 1th Dec 2018 Børøya Jan to March 2021 plan. b) ABM coordination and management of disease and treatments including coordination of stocking; fallowing; therapeutic treatments; and information sharing with more then %80 participants. c)Verified the ABM management document entitled "coordinated plan for combating sea lice in subregion Nordland North". The six page document outline the management with thirteen partipants and management by a veterinary sea lice coordinator and the ABM complies with all requirements in Appendix II-1. d)Submitted to ASC dated 02.02.2020.	Compliant		

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]	Note: Indicator 3.1.2 requires that farms demonstrate a commitment to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks. If the farm does not receive any requests to collaborate on such research projects, the farm may demonstrate compliance by showing evidence of commitment through other proactive means such as published policy statements or directed outreach to relevant organizations.				
		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.	a) Commitment and participation of Cermaq Norway AS is documented in several projects with NGOs, academics and governments. Among other: Competency cluster with actio nplan for 2019 including subprojects in smolt and escaped salmon tracing and modelling sea lice. The tareproject on Kelp forest established as artificial reef in the ecosystem. Norwegian Institue for Water Research dated 2017-2018. Northeast Atlantic Aquaculture (EU Project) Kompetanse Klynge Laks Some links added up. b)Projects described as below also reachable on the links: - Competance cluster (mainly relevant for Finnmark sites, since the projects are hosted in Finnmark): https://kompetanseklyngelaks.no/om-oss/ - Marine Survailance Nordland – a big NIVA (Norwegian Institute for Water Research) project over 6-7 years where Cermaq was one of the initiators for ordering the surveillance and we are financing the surveillance of the Varpavassdrag (salmon river). The data collected are used in the Vannrammedirektiv (feks. Vann-nett.no). Norway has actually committed to be able to tell the state of pollution along the coast, but there is very little data for northern Norway so it is important to contribute: https://niva.brage.unit.no/niva-xmlui/handle/11250/2595764 - ClimeFish – a EU project where the overall goal is to help ensure that the increase in seafood production comes in areas and for species where there is a potential for sustainable growth, given the expected developments in climate, thus contributing to robust employment and sustainable development of rural and coastal communities. Cermaqs involvement has been providing data and as a stakeholder: https://climefish.eu/aims-and-goals/ c) A dedicated Cermaq team evaluate research proposals and the procedure for rejection the proposal. There is not any rejected project seen recently.	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.				
		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.				
		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.				
Footnote	[34] Commitment: At a minimum, a farm and/or its operating company must demonstrate this commitment through providing farm-level data to researchers, granting researchers access to sites, or other similar non-financial support 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 **Requirement:** Yes **Applicability:** All except farms that release no water as noted in [32]	a. Keep records to show that a maximum sea lice load has been set for: - the entire ABM; and - the individual farm.	a) a) The Norwegian Food Safety Authority (NFSA) set maximum sea lice load as compliance criteria, which are equal for the ABM and the individual farms. The sea lice site share all information to interested parties http://lusedata.no/ The ABM 201811 Overordnet plan Hålogaland 2019 declares as The ABM 201811 Overordnet plan Hålogaland 2019: Procedures for treatments and lice counting • Time of treatment should be set according to the maximum permitted limit value adult female lice set of the Regulation on the control of salmon lice in aquaculture facilities. From Monday in week 21 through Sunday in week 26 there must be fewer than at any time 0.2 adult female lice on average per fish in the facility. The rest of the year it should at all times be less than 0.5 adult females on average per fish in the facility.	Compliant		
		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).	b) All sites in the ABM review data as described in coordinated plan for combating sea lice in subregion Nordland North. Each farm submit data each week to Barentswatch (https://www.barentswatch.no/fiskehelse/). Graphs depict weekly lice counts with lines showing the maximum allowed sea live load.			
		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.	c) The maximum sea lice load in the ABM is 0.5 adult female lice per fish and 0.2 in the sensitive smolt migration period (week 21 to week 26) (20 may to 30 June) were the action limit is reduced to 0,2 mature female lice.			
		d. Submit the maximum sea lice load for the ABM to ASC as per Appendix VI at least once per year.	d) Submitted to ASC in email 02.02.2020.			

3.1.4	**Indicator**: Frequent [35] on-farm testing for sea lice, with test results made easily publicly available [36] within seven days of testing **Requirement:** Yes **Applicability:** All except farms that release no water as noted in [32]	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).	a) Cermaq has a number of Intelex QMS procedures on sea lice. Routine testing is weekly according to the procedures. Procedure of 4 April 2017 (Doc ID 394) for coordinated control and control of salmon lice.	Compliant		
		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.	b) Verified weekly sea lice countings from smolt stocking at Barentswatch.			
		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.	c) Cermaq has a number of Intelex QMS procedures on sea lice. They use the system developed by Marine Health, which is widely accepted and used throughover Norway. Source: https://www.marinhelse.no/produkter/tellekar-lakselus/ Procedure of 4 April 2017 (Doc ID 394) for coordinated control and control of salmon lice. Procedure of 15 May 2018 (Doc ID 321) on sea lice counting and recording in FishTalk. Procedure of 19 June 2016 (Doc ID 348) reporting sea lice.			
		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.	d) Cermaq submit data each week to Barentswatch (https://www.barentswatch.no/fiskehelse/). Graphs depict weekly lice counts with lines showing the maximum allowed sea live load.			
		e. Keep records of when and where test results were made public.	e) https://www.mattilsynet.no/fisk_og_akvakultur/fiskehelse/fiske_og_skjellsykdommer/lakselus/slik_rapporterer_du_lakselusdata.3977			
		f. Submit test results to ASC (Appendix VI) at least once per year.	f) Submitted to ASC in email 02.02.2020.			
Footnote	[35] Testing must be weekly during and immediately prior to sensitive periods for wild salmonids, such as outmigration of wild juvenile salmon. Testing must be at least monthly during the rest of the year, unless water temperature is so cold that it would jeopardize farmed fish health to test for lice (below 4 degrees C). Within closed production systems, alternative methods for monitoring sea lice, such as video monitoring, may be used.					
Footnote	[36] Posting results on a public website is an example of “easily publicly available.”					

3.1.5	**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 **Requirement:** Yes **Applicability:** All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	**Instruction to Clients for Indicator 3.1.5 - Evidence for Wild Salmonid Health and Migration** In writing this indicator, the SAD Steering Committee concluded that relevant data sets on wild salmonid health and migration are publicly available in the vast majority of, if not all, jurisdictions with wild salmonids. The information is likely to come from government sources or from research institutions. Therefore farms are not responsible for conducting this research themselves. However farms must demonstrate that they are aware of this basic information in their region, as such information is needed to make management decisions related to minimizing potential impact on those wild stocks. This Indicator requires collection and understanding of general data for the major watersheds within approximately 50 km of the farm. A farm does not need to demonstrate that there is data for every small river or tributary or subpopulation. Information should relate to the wild fish stock level, which implies that the population is more or less isolated from other stocks of the same species and hence self-sustaining. A "conservation unit" under the Canadian Wild Salmon Policy is an example of an appropriate fish stock-level definition. However, it must be recognized that each jurisdiction may have slight differences in how a wild salmonid stock is defined in the region. For purposes of these standards, "areas with wild salmonids" are defined as areas within 75 kilometers of a wild salmonid migration route or habitat. This definition is expected to encompass all, or nearly all, of salmon-growing areas in the northern hemisphere [39]. Potentially affected species in these areas are salmonids (i.e. including all trout species). Where a species is not natural to a region (e.g. Atlantic or Pacific Salmon in Chile) the areas are not considered as "areas with wild salmonids" even if salmon have escaped from farms and established themselves as a reproducing species in "the wild". Farms do not need to conduct research on migration routes, timing and the health of wild stocks under this standard if general information is already available. Farms must demonstrate an understanding of this information at the general level for salmonid populations in their region, as such information is needed to make management decisions related to minimizing potential impact on those stocks. Such "evidence" would consist of, for example, peer review studies; publicly available government monitoring and reporting.				
		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.	a) Atlantic salmon (Salmo salar), sea run brown trout (Salmo trutta) and Arctic charr (Salvelius alpinus) are naturally occurring in the area. The distance from the site to river Botn and river Alta is 17 km and 28 km, respectively using the measurement tool at http://lakseregister.fylkesmannen.no/lakseregister/public/	Compliant		
		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.	b) The life history and migration routes of wild salmonids is well known and reported by official sources. 1. The The Norwegian Environmental Directorate publish map of Norwegian salmon rivers. https://miljostatus.miljodirektoratet.no/tema/ferskvann/laks/nasjonale-laksevassdrag-og-laksefjorder/ 2. The Norwegian Environmental Directorate publish the Salmon Registry. http://lakseregister.fylkesmannen.no/lakseregister/public/ 3. The Norwegian Environmental Directorate. A summary of knowledge on smolts "Smolt - en kunnskapsoppdatering" M136-2014. 128 pp. 4. The Institute of Marine Research published the report entitled the risk assessment report for Norwegian fish farming - "Risikorapport norsk fiskeoppdrett 2018". Fisken & havet, 1, 2018. 184 pp.			
		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.	c) Sensitive period for wild salmonids defined as less than 0.2 adult female sea lice per fish from week 21 to week 26 for North region. Source: Regulation (FOR-2012-12-05-1140) on combating salmon lice in aquaculture facilities (Forskrift om lakselusbekjempelse) §4 Coordinated plan for control and control of salmon lice.			
		-				
Footnote	[37] For purposes of these standards, "areas with wild salmonids" are defined as areas within 75 kilometers of a wild salmonid migration route or habitat. This definition is expected to encompass all, or nearly all, of salmon-growing areas 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 already available. Farms must demonstrate an understanding of this information at the general level for salmonid populations in their region, as such information is needed to make management decisions related to minimizing potential impact on those stocks.					

3.1.6	**Indicator**: In areas of wild salmonids, monitoring of sea lice levels on wild out-migrating salmon juveniles or on coastal sea trout or Arctic char, with results made publicly available. See requirements in Appendix III-1. **Requirement:** Yes **Applicability:** All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.6 does not apply.	a) Atlantic salmon (Salmo salar) and sea run brown trout (Salmo trutta) is naturally occurring in the area.	Compliant		
		b. Keep records to show the farm participates in monitoring of sea lice on wild salmonids.	b) Private initiatives interfering with wild stock is prohibited by law. Govermental monitoring and reporting. VR136 is applicable.			
		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.	c) Methodology used by the governmental research institutes is state of the art. Sources: 1) The Norwegian Environmental Directorate. A summary of knowledge on smolts "Smolt - en kunnskapsoppdatering" M136-2014. 128 pp. 2) The Institute of Marine Research published the report entitled the risk assessment report for Norwegian fish farming - "Risikorapport norsk fiskeoppdrett 2018". Fisken & havet, 1, 2018. 184 pp.			
		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.	d) 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.	e) Submitted to ASC in email 02.02.2020.			
3.1.7	**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. **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]	a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.7 does not apply.	a) Atlantic salmon (Salmo salar) and sea run brown trout (Salmo trutta) is naturally occurring in the area.	Compliant		
		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.	b) Sensitive periods in area for juvenile wild salmon downstream migration considered and defined to week 21 to 26. (0.2 female adult lice is the limit) green locations is identified for all the generations. No medication is allowed in green areas. Børøya (01.12.2019 fish delivered) half amount of the fish arrived from Dypeidet. Dypeidet 05.08. 2019 to 11.08.2019 Emamektin Vet 5 mg/8 cages treated/31.10.2019 to 12.11.2019 Emamektin Vet. 30 mg (medicated feed) 8 mg/8 Biomar. 19G has not gone through any lice treatments so far in 2020. Lice counting is done every week. Last counting is done 04.02.2020 4 cages/80 fish/0,48 moving lice and 0,01 non moving lice/ 0,09 female adult lice 0,09.			
		c. Maintain detailed records of monitoring on-farm lice levels (see 3.1.4) during sensitive periods as per Appendix II-2.	c) Reports public available at www.imr.no and www.miljødirektoratet.no.			
		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).	d) Farm key personals (site managers) are in charge for understand feedback loop between farm's sea lice level and wild sea lice level and they follow up the sensitive periods on sea lice management that can protect the wild resource. Institute of Marine Research (IMR) manage surveillance of sea lice level on wild salmonids (https://www.imr.no/enIMR), and on that basis the strategic plan is defined by the relevant authorities and the ABM to be followed.			
Footnote	[39] Sensitive periods for migrating salmonids is during juvenile outmigration and approximately one month before.					

Criterion 3.2 Introduction of non-native species						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
3.2.1	**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 ASC Salmon standard **Requirement:** Yes [40] **Applicability:** All farms except as noted in [40]	Note: For the purposes of Indicator 3.2.1, "area" is defined as a contiguous body of water with the bio-chemical and temperature profile required to support the farmed species' life and reproduction (e.g. the Northern Atlantic Coast of the U.S. and Canada). Appendix II-1A elaborates further on this definition: "The boundaries of an area should be defined, taking into account the zone in which key cumulative impacts on wild populations may occur, water movement and other relevant aspects of ecosystem structure and function." The intent is that the area relates to the spatial extent that is likely to be put at risk from the non-native salmon. Areas will only rarely coincide with the boundaries of countries.				
		a. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.1 does not apply.	a) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 02.02.2020.	N/A		
		b. Provide documentary evidence that the non-native species was widely commercially produced in the area before June 13, 2012.	b)N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 02.02.2020.			
		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.	c) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 02.02.2020.			
		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).	d) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 02.02.2020.			
		-				
Footnote	[40] Exceptions shall be made for production systems that use 100 percent sterile fish or systems that demonstrate separation from the wild by effective physical barriers that are in place and well-maintained to ensure no escapes of reared specimens or biological material that might survive and subsequently reproduce.					

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 Species** Farms have had five years to demonstrate compliance with this standard from the time of publication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017). Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met: eradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was 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).	a) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 02.02.2020.	N/A		
		b. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.2 does not apply.	b) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 02.02.2020.			
		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).	c) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 02.02.2020.			
		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.	d) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 02.02.2020.			
		e. Submit evidence from 3.2.2c to ASC for review.	e) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 02.02.2020.			
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	[42] If the review demonstrates there is increased risk, the ASC will consider prohibiting the certification of farming of non-native salmon in that jurisdiction under this standard. In the event that the risk tools demonstrate "high" risks, the SAD expects that the ASC will prohibit the certification of farming of non-native salmon in that jurisdiction. The ASC intends to bring this evidence into future revision of the standard and those results taken forward into the revision process.					
Footnote	[43] Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met: eradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining.					
3.2.3	**Indicator**: Use of non-native species for sea lice control for on-farm management purposes **Requirement:** None **Applicability:** All	a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice.	a) There is not any cleaner fish or wrasse for the control of the sea lice.	N/A		
		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.	b) There is not any cleaner fish or wrasse for the control of the sea lice.			
		c. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region.	c) There is not any cleaner fish or wrasse for the control of the sea lice.			
Criterion 3.3 Introduction of transgenic species						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
3.3.1	**Indicator**: Use of transgenic [44] salmon by the farm **Requirement:** None **Applicability:** All	a. Prepare a declaration stating that the farm does not use transgenic salmon.	a)Cermaq policy on non-GMO available in statement dated 20.11.2019, signed by Quality Manager.	Compliant		
		b. Maintain records for the origin of all cultured stocks including the supplier name, address and contact person(s) for stock purchases.	b) All stocks originate from Benchmark Genetics/Salmobreed AS (Global Gap certified with GGN 4056186628183, expiry 30.01.20) breeding stock. Dated 6th Dec 2019. Cermaq has all supplier contact informations. Aquagen Global Gap certified with GGN 4049929687783			
		c. Ensure purchase documents confirm that the culture stock is not transgenic.	c) Statement dt. 23 March 2017 from AquaGen stating that only conventional breeding and genetics are applied.			
Footnote	[44] Transgenic: Containing genes altered by insertion of DNA from an unrelated organism. Taking genes from one species and inserting them into another species to get that trait expressed in the offspring (reference USDA).					

Criterion 3.4 Escapes [47]						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
Footnote	[45] See Appendix VI for transparency requirements for 3.4.1, 3.4.2 and 3.4.3.					
3.4.1	**Indicator**: Maximum number of escapees [46] in the most recent production cycle **Requirement:** 300 [47] **Applicability:** All farms except as noted in [47]	a. Maintain monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.	a) Cermaq record escapes in the production and recording system Fishtalk. Fisheries directorate statistics (www.fiskeridir.no) shows no escapes from site. Source: the interactive map at https://www.fiskeridir.no/Akvakultur/Drift-og-tilsyn/Roemt-fisk/Rapporterte-roemminger	Compliant		
		b. Aggregate cumulative escapes in the most recent production cycle.	b) No escapes recorded.			
		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]).	c) No escapes the last fproduction cycles for all the sites.			
		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.	d) N/A.			
		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).	e) Submitted to ASC in email 02.02.2020.			
Footnote	[46] Farms shall report all escapes; the total aggregate number of escapees per production cycle must be less than 300 fish. Data on date of escape episode(s), number of fish escaped and cause of escape episode shall be reported as outlined in Appendix VI.					
Footnote	[47] A rare exception to this standard may be made for an escape event that is clearly documented as being outside the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there was no reasonable way to predict the events that caused the episode. See auditing guidance for additional details.					

3.4.2	**Indicator**: Accuracy [48] of the counting technology or counting method used for calculating stocking and harvest numbers **Requirement:** ≥ 98% **Applicability:** All	a. 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.	a) Counting performed by the well boat upon stocking and harvest using Wing Tech Fishcounter 777 Smolt and WingTech Fishcounter 10-500 gram Capacity 100 gr (500.000 per hour). and 500 g to 24 kg (160 tonnes per hour) Numbers verified at harvest plant where individual fish is handled and registered. Verified statement from Wing Tech of 98-100% accuracy.	Compliant		
		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).	b) Vaccination numbers in FW used as accurate number stocked. External smolt provider use AquaScan CF4000. Verified AquaScan supplier statement of 98-100% accuracy.Wing Tech Fishcounter 777. Smolt and WingTech Fishcounter 1200/2000. Statement from Wing Tech of 98-100% accuracy. The fish transferred from Dypeidet to Børøya site. Vaccination records for Dypeidet are as below: Dypeidet Vaccination Cage 6 (Tank No: 1401) from Hopen Vet. Elisabeth Faureng Lok. No: 10484 AquaGen gtl (NordNorsk Stamfisk egg producer)/Type Gain. 22.02.17 (eggs taken out) 05.03.2017 hatchling dated. Mortality rate is 1.22%. Fish screened for ILAV,SAV,IPNV,PRV,PMCV and the results were negative. Dønnland (Welboat for transfer of the fish). Vaccination Alpha ject vaccination/counting (Aqualife Vaccination Team) controls the vaccination and the process. The process completed manually. 42 fr average gr of the fish. 169.460 Cage 6 fish amount dated 21.06.2019.			
		c. During audits, arrange for the auditor to witness calibration of counting machines (if used by the farm).	c) Counting not performed at site.			
		-	d)			
		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).	e) Submitted to ASC in email 02.02.2020.			
Footnote	[48] Accuracy shall be determined by the spec sheet for counting machines and through common estimates of error for any hand-counts.					
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 as follows: EUL = (stocking count) - (harvest count) - (mortalities) - (recorded escapes) Units for input variables are number of fish (i.e. counts) per production cycle. Where possible, farms should use the pre-smolt vaccination count as the stocking count. This formula is 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).	a) Specific site records are available in the production and recording system Fishtalk.The escape plan, records for the 2019G stock counts/dates and mortalities checked during the audit. Transparency sheets reviewed before the audit. The escpe information is checked on barenswatch website.	Minor	EUL Børøya 2010 G is not published on Cermaq's dashboard.	
		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.	b) Estimated unexplained loss for the most recent full production cycle is Børøya %3,07 2019 G 2010 G %0			
		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.	c) System implemented to make EUL value information easily publicly available on corporate webpage www.cermaq.com using the link Børøya 2010 G is not published on Cermaq's dashboard.			
		d. Submit estimated unexplained loss to ASC as per Appendix VI for each production cycle.	d) Submitted to ASC in email 02.02.2020.			
		-				Børøya %3,07 2019 G 2010 G %0
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., holes, 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.	a) Risk assessments and several procedures describes actions to prevent escape (inspection, maintenance, etc.). Site specific risk assessment of for escapes including relevant issues related to potential causes to escape. Børøya risk assessment dated 30.04.2019 and Dypeidet risk assessment dated 02.05.2019 reviewed. Procedure of 30.04.2019 (Doc ID 341) for de-icing rope and nets cages. Procedure of 7 May 2018 (Doc ID 222) for installation and inspection of facilities, raft and boat. Procedure of 7 May 2018 (Doc ID 273 for checking, inspecting and cleaning the system.	Compliant		
		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.	b) The Escape Prevention Plan 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; planning of staff training on escape prevention and counting technologies. All floating sea cage structures NYTEK certified Norwegian standard NS9415 (Certificate APN-279 by Akvaplan Niva INSP 013). Valid 5 years. Verified Inspection report of moorings including relevant components by Aquastructures (Norsk Akkreditering Prod 010) AQS dated 29.04.2019 Børøya dated 27.05.2019 APN-377 R-2 valid for 5 years by Akva Plan Niva AS. Dypeidet dated 01.02.2018 APN-312 for 5 years by Akva Plan Niva AS. Verified diving inspection reports of for all nets has seen. Børøya (MABOR) 22.08.2019 by Aqualine Serial No: 4095-19 Model: FRPL500-160BG Dypeidet (MADYP) 29.11.2012 by Akva Group Serial No: 3793/120. Weekly and monthly controls are done by Cermaq. Last weekly control is done bye 07.02.2020. Ropes, nets (predator), lice skirts,feeding pipes etc. Staff Escape Trainings have seen.			
		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.	c) N/A			
		d. Maintain records as specified in the plan.	d) 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" byAqua.com for records and documentation of nets, Børøya e.g cage 4, net no N11771 Kombinot , supplier Mørenot, certificate valid to 18.11.2019/2 years valid after it has been put into the sea. Net Polish NP Super . Dypeidet eg. Cage 1, net no SY-1082 06.01.2020 valid 12 month.			
		e. Train staff on escape prevention planning as per the farm's plan.	e) Cermaq presented training plans and records.			
		-	f)			

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.					
4.1.1	**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.	a) Feed supplier: BIOMAR Records of purchase: recorded in FishTalk for incomplete 18G cyclus for periode 20.04.18 to 31.12.18. Skretting is the preferred supplier if/when medicated feed is ordered. Børøya 2010G 3.344.935 from EWOS Dypeidet 2017G 1.507.350 from EWOS and 3.575.000 from Biomar.	Compliant		
		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.	b) Feed suppliers informed of relevant ASC requirements in mail of 26 March 2018 to EWOS and Skretting and Biomar.			
		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.	c) Global G.A.P. CFM Version 2.2. EWOS: Certificate GGN CMF 4050373825744, valid to 16.06.20. valid to 23.05.20. BIOMAR Certificate GGN 4050373810030 valid to 20.08.2020 and Skrettig GGN 4050373823641 valid 2020-05-23.			
		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.	d) 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].	e) Statement from regarding suppliers have been as below: EWOS /Cargill Aqua Nutrition dated 13.01.2020. Skretting dated December 2018. Biomar dated 06.01.2020			
		-				
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 of 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 transparency requirements for 4.2.1 and 4.2.2.					
4.2.1	**Indicator**: Fishmeal Forage Fish Dependency Ratio (FFDRm) for grow-out (calculated using formulas in Appendix IV- 1) **Requirement:** < 1.2 **Applicability:** All	**Instruction to Clients for Indicator 4.2.1 - Calculation of FFDRm** Farms 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).				
		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.	a) Registration in FishTalk on diet type, batch level with referance to CF supplier`s feed serial number and percentege of fishmeal and other relevant information on feedsuppliers webportal. Statements from feedsuppliers EWOS and Skretting and Biomar.	Compliant		FFDRm =0,47
		b. For FFDRm calculation, exclude fishmeal derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery.	b) For the 2019 production year inclusion level was 0,47 % fishmeal in feed of which 111,36 from forage fish and 6.08% from trimmings and byproducts (listed species and stock status). 2019G production is still on-going.			
		c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1).	c) For 2019: eFCR = 1,01. This is estimated for the complete 2019G generation after harvest in Summer 2020 for Børøya.			
		d. Calculate FFDRm using formulas in Appendix IV-1.	d) For 2019: FFDRm =0,47. 11,36*1/24=0,47			
		e. Submit FFDRm to ASC as per Appendix VI for each production cycle.	e) Submitted to ASC in email 02.02.2020.			

4.2.2	**Indicator**: Fish Oil Forage Fish Dependency Ratio (FFDRo) for grow-out (calculated using formulas in Appendix IV- 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	Note: Under Indicator 4.2.2, farms can choose to calculate FFDRo (Option #1) or EPA & DHA (Option #2). Farms do not have to demonstrate that they meet both threshold values. Client shall inform the CAB which option they will use.				
		a. Maintain a detailed inventory of the feed used as specified in 4.2.1a.	a) See 4.2.1.a	Compliant		
		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 consumption fishery.	b) For the 2019 production year inclusion level was 1,30 % fish oil in feed of which 7,24% from forage fish and 3,74 % from trimmings and byproducts (listed species and stock status). 2019 production is still on-going.			
		c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.	c) For 2019: FFDRo = 1,3. This is estimated for the complete 2019G generation after harvest in Summer 2020 for Børøya.			
		d. For option #1, calculate FFDRo using formulas in Appendix IV-1 and using the eFCR calculated under 4.2.1c.	d) For 2019: FFDRo =1,30. North Atlantic Fish Oil/2,61*1/7 (FF contribution)+ South American Fish Oil/4,63*1/5 (FF contribution)=1,30			
		e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2.	e) N/A.			
		f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle.	f) Submitted to ASC in email 02.02.2020.			FFDRo=1.3
Footnote	[52] Calculation excludes DHA and EPA derived from fisheries by-products and trimmings. Trimmings are defined as by-products when fish are processed for human consumption or if whole fish is rejected for use of human consumption because the quality at the time of landing does not meet official regulations with regard to fish suitable for human consumption. 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 **Applicability:** N/A	-		N/A		
Footnote	[53] This standard and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fisheries where the catch is directly reduced (including krill) and not to by-products or trimmings used in feed.					
Footnote	[54] Meets ISEAL guidelines as demonstrated through full membership in the ISEAL Alliance, or equivalent as determined by the Technical Advisory Group of the ASC.					

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	**Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed** To determine FishSource scores of the fish species used as feed ingredients, do the following: -go to http://www.fishsource.org/ - type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroll down or click on the link from the menu on the left reads "Scores" For first audits, farms must have scoring records that cover all feeds purchased during the previous 6-month period. Note: Indicator 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fisheries where the catch is directly reduced (including krill) and not to by-products or trimmings used in feed.				
		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).	a) Following statements include traceability:Statement EWOS, "Dokumentasjon og informasjon om fôr levert iht. ASC", 08.01.2018, includes species and declares 98,8 % of fish meal and 80,1% of fish oil were ASC compliant in 2019.. EWOS statement of 26.09.19 on feed to ASC customers. The majority of raw materials used in 2018 comply with the ASC requirements 97,3% FM and 99,1% FO. BIOMAR, 2018 ASC Compliant material 96%/Trimming percentage %25.2/IFFO RS certified material %92 (composition of marine dry matter) and composition of fish oil IFFO RS certified material %70.7/ASC Compliant material %90.3/Trimmings percentage %32.5 as declared. Following statements include traceability:Statement BIOMAR, Documentation of the Declaration 13.03.2018. Biomar declares that the registration of the fish/catch area of each delivery of marine ingredients like fish meal, krill meal and fish oil. Every 3 months the IFFO RS and ASC STATUS ON FISHMEAL AND FISH OIL IS SUMMARISED IN A COMMON BIOMAR group database. An annual reports is issued make a summary of average compositon of marine ingredients used by Biomar AS Norway, as well as the status of ASC compliant material, IFFO RS certified material and MSC certified material. Fish source score above 6 is used to define ASC compliant material (biomass above 8 before Q42016)./05.02.2019.	Compliant		
		b. Confirm that each individual score ≥ 6 and the biomass score is ≥ 6.	b) EWOS statement " ASC feed declaration and information " d.t .04.02.2020 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.Correspondence verified. Individual score >6 and biomass score >6. Biomar statement dated 05.02.2019.			
		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.	c) All species used have scores.			
		-				>6
Footnote	[55] Or equivalent score using the same methodology. See Appendix IV-3 for explanation of FishSource scoring.					

4.3.3	**Indicator**: Prior to achieving 4.3.1, demonstration of third-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	**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 custody and traceability as verified through third-party audits. Farms may submit reports from audits of feed producers (see 4.1.1c) as evidence that traceability systems are in compliance. Alternatively, farms may show that their feed producers comply with traceability requirements of Indicator 4.3.3 by submitting evidence that suppliers, and the batches of fishmeal and oil, are certified to the International Fishmeal and Fish Oil Organization's Global Standard for 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 relate to species used in said dataset.				
		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.	a) Global G.A.P. CFM Version 2.2. EWOS: Certificate GGN CMF 4050373825744, valid to 16.06.20. Skretting: Certificate GGN CMF 4050373823641. A detailed list is seen for Biomar eg. Anchoveta, S. Peru/N. Chile reg XV-I-II, Blue Whiting, NE Atlantic, Sprat, European, Baltic Sea other almost 30 types and IFFO RS,MSC. fish source verification seen.	Compliant		
		b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a).	b) See 4.3.3.a.			
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 **Requirement:** None [59] **Applicability:** All except as noted in [59]	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.	a) EWOS statement " ASC feed declaration and information " d.t. xxxxxxxxx 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.Link based/2018 Skretting statement link based./2018 Biomar statement Link based./HIC, ICES,FAO,IMAPRE,CERNAPESCA reference to MSC dated 12th September 2018.	Compliant		
		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.	b)See EWOS statement in 4.3.4.a.			
		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).	c)See EWOS statement in 4.3.4.a.			
		d. If meal or oil originated from a species listed as “vulnerable” by IUCN, obtain documentary evidence to support the exception as outlined in [59].	d)Not from vulnerable fisheries			

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	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.	a)EWOS, BIOMAR and Skretting statement " ASC feed declaration and information " d.t. 28.03.2018 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. Code of Conduct of Cermaq is available on the dashboard.	Compliant		
		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.	b)See a.			
		c. Compile a list of the origin of all fish products used as feed ingredients in all feed.	c)Following statements include traceability:Statement EWOS, Skretting and Biomar has been seen during the audit for 2018.			
Footnote	[56] Trimmings are defined as by-products when fish are processed for human consumption or if whole fish is rejected for use of human consumption because the quality at the time of landing does not meet official regulations with regard to fish suitable for human consumption.					
Footnote	[57] IUU: Illegal, Unregulated and Unreported.					
Footnote	[58] The International Union for the Conservation of Nature reference can be found at http://www.iucnredlist.org/.					
Footnote	[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 raw materials in feed						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
4.4.1	**Indicator**: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed ingredients that comply with recognized crop moratoriums [60] and local laws [61] **Requirement:** Yes **Applicability:** All	a. Compile and maintain a list of all feed suppliers with contact information. (See also 4.1.1a)	a)Feed supplier: EWOS (www.cargill.com). Skretting is the preferred supplier if/when medicated feed is ordered. Biomar www.biomar.com	Compliant		
		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.	b)EWOS, Skretting and Biomar statement " ASC feed declaration and information " last updated 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			
		c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible sourcing policies are implemented.	c)Global G.A.P. CFM Version 2.2. EWOS: Certificate GGN CMF 4050373825744, Skretting: Certificate GGN CMF 4050373823641, and Biomar GGN 4050373810030.			
Footnote	[60] Moratorium: A period of time in which there is a suspension of a specific activity until future events warrant a removal of the suspension or issues regarding the activity have been resolved. In this context, moratoriums may refer to suspension of the growth of defined agricultural crops in defined geographical regions.					
Footnote	[61] Specifically, the policy shall include that vegetable ingredients, or products derived from vegetable ingredients, must not come from areas of the Amazon Biome that were deforested after July 24, 2006, as geographically defined by the Brazilian Soy Moratorium. Should the Brazilian Soy Moratorium be lifted, this specific requirement shall be reconsidered.					

4.4.2	**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% **Applicability:** All	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.	a) Annual Cermaq Group report 2018 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.	Compliant		
		b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent)	b) See 4.4.2 a			
		c. Notify feed suppliers of the farm's intent (4.4.2b).	c) Feed suppliers informed of relevant ASC requirements by Cermaq via email dated 18.06.15.			
		d. Obtain and maintain declaration from feed supplier(s) detailing the origin of soya in the feed.	d) EWOS: Statement "Traceability, responsible sourcing and origin of soy in EWOS CFM" (being from Pro-Terra and RTRS) dt.04.02.2020. BIOMAR Statement "Traceability, responsible sourcing and origin of soy in BIOMAR CFM" (being from Pro-Terra and RTRS) dt..12.02.2018. . SKRETTING Statement "Traceability, responsible sourcing and origin of soy in SKRETTING CFM" (being from Pro-Terra and RTRS) dt 2018.			
		e. Provide evidence that soya used in feed is certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62]	e) See 4.4.2 d			
Footnote	[62] Any alternate certification scheme would have to be approved as equivalent by the Technical Advisory Group of the ASC.					
4.4.3	**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 feed **Requirement:** Yes, for each individual raw material containing > 1% transgenic content [65] **Applicability:** All	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.	a,b) EWOS: Statement "Traceability, responsible sourcing and origin of soy in EWOS CFM" (being from Pro-Terra and RTRS) dt.04.02.2020. BIOMAR Statement "Traceability, responsible sourcing and origin of soy in BIOMAR CFM" (being from Pro-Terra and RTRS) dt..12.02.2018. . SKRETTING Statement "Traceability, responsible sourcing and origin of soy in SKRETTING CFM" (being from Pro-Terra and RTRS) dt 2018	Compliant		
		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.				
		c. Inform ASC whether feed contains transgenic ingredients (yes or no) as per Appendix VI for each production cycle.	c. There is no transgenic ingredient. See the declarations for each supplier as above in this indicator. The transparency sheets has been submitted to ASC dated 02.02.2020.			
Footnote	[63] The company or entity to which the farm or the producing company is directly selling its product. This standard requires disclosure by the feed company to the farm and by the farm to the buyer of their salmon.					
Footnote	[64] Transgenic: Containing genes altered by insertion of DNA from an unrelated organism. Taking genes from one species and inserting them into another species to get that trait expressed in the offspring.					
Footnote	[65] See Appendix VI for transparency requirement for 4.4.3.					

Criterion 4.5 Non-biological waste from production						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
4.5.1	**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.	a) Environmental policy for Cermaq Norway AS (Miljøpolitikk fir Cermaq Norway v7 - signed Knut Ellekjær dated 11.09.2019) wtih referance to other relevant internal documents and reports dated 30.08.17. Procedure "Avfallsplan Cermaq Norway AS version 21" I, d.t 20.09.2019, identifying waste materials and how to handle it.Policy and vision and defined in enviromental annual report from Cermaq Group report on corporate level, considering stakeholders, variuos environmental specters.All nonbiological waste handled by Reno-Vest Bedrift 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. General Waste Management Plan Cermaq Nordland 29.10.2019 updated V21 dated 11.02.2020.	Compliant		
		b. Prepare a declaration that the farm does not dump non-biological waste into the ocean.	b) V21 d.t 20.09.2019, identifying waste materials and how to handle it.			
		c. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of.	c) This is described in waste management plan and the above referred procedures. All nonbiological waste handled by Reno Vest.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. Scanbio Cermaq Sandset Doc No. 018020 Registration No: YK22547 Category 2 11 M3 Volume delivered by Scanbio Ingredients AS avd. Lysøysund Spillolje (17011) 300 kg Ref No: 9161419/ 17024 Oljefilter dated 06.02.2020 1. register: 1.820 kg ad 2. register: 1.690 kg /Fast oljeholdig avfall 45 kg. Ref. No: 9161417 (17022)/Eee-avfall Ref No. 9161508 Electrical waste 2020 kg dated 10.02.2020 Declaration for batteries (dangerous wastes) from Reno- Vest has seen for all the sites.			
		d. Provide a description of the types of waste materials that are recycled by the farm.	d) Statistic document from with all non-bio waste from Reno-Vest, eg. Bilbatteri total 80 kg sent dated 10.02.2020 Ref No. 9161510 Residual (10100)waste has been sent to Reno-Vest dated 01.07.2019 total 40 kg Ref. No. 3104380 and also 40kg dated 22.07.2020 Ref No. 3104422.			
Footnote	[66] Proper and responsible disposal will vary based on facilities available in the region and remoteness of farm sites. Disposal of non-biological waste shall be done in a manner consistent with best practice in the area. Dumping of non-biological waste into the ocean does not represent “proper and responsible” disposal.					
4.5.2	**Indicator**: Evidence that non-biological waste (including net pens) from grow-out site is either disposed of properly or recycled **Requirement:** Yes **Applicability:** All	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)	a) Local plan for waste materials, d.t 23.08.2018, indentifying waste materials, e.g. Paper, big bags from feed, electric waste, dangerous waste, special waste, old productions equipment, etcThe plan identify all receivers and how to proper dispose the waste.	Compliant		
		b. Provide a description of the types of waste materials that are recycled by the farm. (See also 4.5.1d)	b)Local plan for waste materials, d.t 23.08.2018, indentifying waste materials, e.g. Paper, big bags from feed, electric waste, dangerous waste, special waste, old productions equipment, etcThe plan identify all receivers and how to proper dispose the waste.			
		c. Inform the CAB of any infractions or fines for improper waste disposal received during the previous 12 months and corrective actions taken..	c)No infractions identified.			
		d. Maintain records of disposal of waste materials including old nets and cage equipment.	d)Seen documentation regarding plastic equipment delivered to Containerservice Ottersøy AS, dated 29.12 2016 Ref. 151891 15 cages Ottersey AS .			

Criterion 4.6 Energy consumption and greenhouse gas emissions on farms [67]						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
Footnote	[67] See Appendix VI for transparency requirements for 4.6.1, 4.6.2 and 4.6.3.					
4.6.1	**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/mt 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. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for operational energy use should correspond to the sources of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is not required. However the SAD Steering Committee encourages companies to integrate energy use assessments across the board in the company. For the purposes of calculating energy consumption, the duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out the grow-out stage portion of energy consumption if possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate Standard or ISO 14064-1 (see Appendix V-1 for more details).				
		a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle.	a) Verified records and calculations. Current production cycle is not yet complete.	Compliant		
		b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle.	b) Last complete production cycle Total Energy Use: Børøya 10G: 2 895 467 913 KJ.			
		c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle.	c) 3005 MT biomass produced during last complete production cyclus 2010 G.energy use assessment according Appendix V-1 has performed.			
		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.	d) Last complete production cycle: Børøya 10G: 2 895 467 0913 KJ			
		e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle.	e) Submitted to ASC in email during last survelliance audits.			
		f. Ensure that the farm has undergone an energy use assessment that was done in compliance with requirements of Appendix V-1.	f) Scope 1 Diesel, fuel oil, crude oil, petrol, propaneScope 2 Electricity.Assessed and compared between sites and production forms.			2 895 467 0913 KJ

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	**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_2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF_6).				
		a. Maintain records of greenhouse gas emissions on the farm.	a) Verified farm records of GHG assessment.	Compliant		
		b. At least annually, calculate all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.	b) Farm records of GHG are done continuesly for a month period. Annualy records: Børøya 10G:69,21 GHG CO2/tonn/generation			
		c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors.	c) 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.			
		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.	d) No emission of non-CO2 gases.			
		e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year.	e) Submitted to ASC in email 02.02.2020.			
		f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually.	f) Calculations and asessment provided. Factores used in calculations according to IPCC-2006 and Eurost.			Børøya 10G:69,21 GHG CO2
Footnote	[68] For the purposes of this standard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO_2); methane (CH4); nitrous oxide (N_2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF_6).					
Footnote	[69] GHG emissions must be recorded using recognized methods, standards and records as outlined in Appendix V.					

4.6.3	**Indicator**: Documentation of GHG emissions of the feed [70] used during the previous production cycle, as outlined in Appendix V, subsection 2 **Requirement:** Yes **Applicability:** All	**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 with any feeds used during salmon production. Farms will need to obtain this information from their feed supplier(s) and thereafter maintain a continuous record of Feed GHG emissions throughout all production cycles. This requirement applies across the entire previous production cycle. Therefore farms should inform their feed supplier(s) and: - the farm provides its feed suppliers with detailed information about the requirements including a copy of the methodology outlined in Appendix V, subsection 2; - 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 to demonstrate compliance. Note1: Farms may calculate GHG emissions of feed using the average raw material composition used to produce the salmon (by weight) rather than using feed composition on a lot-by-lot basis. Note2: Feed supplier's calculations must include Scope 1, Scope 2, and Scope 3 GHG emissions as specified in Appendix V, subsection 2.				
		a. Obtain from feed supplier(s) a declaration detailing the GHG emissions of the feed (per kg feed).	a) GHG emission complete cycle: 2 895 467 9132/kg feed	Compliant		2 895 467 9132/kg feed
		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.	b) Feed usage 10G productioncycle :EWOS:2953 MT			
		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.	c) Last production cycle:EWOS factor 2 895 467 913 kg CO2			
		d. Submit GHG emissions of feed to ASC as per Appendix VI for each production cycle.	d) Submitted to ASC in email 02.02.2020.			
Footnote	[70] GHG emissions from feed can be given based on the average raw material composition used to produce the salmon (by weight) and not as documentation linked to each single product used during the production cycle. Feed manufacturer is responsible for calculating GHG emissions per unit feed. Farm site then shall use that information to calculate GHG emissions for the volume of feed they used in the prior production cycle.					

Criterion 4.7 Non-therapeutic chemical inputs [71,72]						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
Footnote	[71] Closed production systems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.7.					
Footnote	[72] See Appendix VI for transparency requirements for 4.7.1, 4.7.3 and 4.7.4.					
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 **Applicability:** All farms except as noted in [71]	a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.	a) Procedure "Prosedyre for kontroll, ettersyn og renhold av not" ID 315, d.t. 07.05.2018. 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	Compliant		
		b. Maintain records of antifoulants and other chemical treatments used on nets.	b) They use Netwax NI4. Mørenot is subcontracted to do the cleaning and antifouling treatment. Mørenot is certified in acc. with NYTEK NS 9415, dated 19.12.16 , valid to 12.12.21Documents and traceability available in QMS system and net log from Mørenot.Antifoulants used is "North Sea Ultra" by Steen Hansen ref safety sheet dt 12.06.2014. (active subsatnce is "dikobberoksid" 67/548/EEC and EU 1999/45/EC, 1272/2008 (CLP).Strategi for less using of copperbased antifouling on nets discussed in Management Review dated 03.05.2018, target to not use copper based nets whitin 2022.			
		c. Declare to the CAB whether copper-based treatments are used on nets.	c) Copper-based antifouling are used on nets, but no cleaning on site.			
		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.	d) Procedure for control, and cleaning of nets (ID315). Nets are not washed in sea. Washed by Mørenot, Hammerfest. No discharge of copper to sea. Awearness demonstrated at site interview.			
		e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle.	e) Børøya and Dypeidet copper antifoulants are used for previous cycles. Dypeidet has not been updated the information on the transparency sheet.			
Footnote	[73] Under the SAD, “copper-treated net” is defined as a net that has been treated with any copper-containing substance (such as a copper-based antifoulant) durng the previous 18 months, or has not undergone thorough cleaning at a land-based facility since the last treatment. Farms that use nets that have, at some point prior in their lifespan, been treated with copper may still consider nets as untreated so long as sufficient time and cleaning has elapsed as in this definition. This will allow farms to move away from use of copper without immediately having to purchase all new nets.					
Footnote	[74] Light cleaning of nets is allowed. 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 during this type of heavy or more thorough cleaning.					
4.7.2	**Indicator**: For any farm that cleans nets at on-land sites, evidence that net-cleaning sites have effluent treatment [75] **Requirement:** Yes **Applicability:** All farms except as noted in [71]	a. Declare to the CAB whether nets are cleaned on-land.	a) Procedure for control, and cleaning of nets (dated 24.11.2018). Nets are not washed in sea. Copper treated nets are used on this site. Washed by Mørenot.No discharge of copper to sea.	Compliant		
		b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place.	b) Mørenot is subcontracted to do the cleaning and antifouling treatment. Mørenot is certified in acc. with NYTEK NS 9415, dated 19.12.16 , valid to 12.12.21.			
		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.	c) Mørenot is subcontracted to do the cleaning and antifouling treatment. Mørenot is certified in acc. with NYTEK NS 9415, dated 19.12.16 , valid to 12.12.21.			
Footnote	[75] Treatment must have appropriate technologies in place to capture copper if the farm uses copper-treated nets.					

4.7.3	**Indicator**: For farms that use copper nets or copper-treated nets, evidence of testing for copper level in the sediment outside of the AZE, following methodology in Appendix I-1 **Requirement:** Yes **Applicability:** All farms except as noted in [71]	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).				
		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.	a) See 4.7.1 c	Compliant		
		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.	b) This is done in connection with MOM C sampling, Akvaplan Niva Akvaplan-niva AS Rapport: 61756.01 is used. The copper level was low and below 34 mg/kg in all the sediments.			
		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.	c) Reference Akvaplan Niva Akvaplan-niva AS Rapport: 61756.01 /2019.			
4.7.4	**Indicator**: Evidence that copper levels [76] are < 34 mg Cu/kg dry sediment weight, or, in instances where the Cu in the sediment exceeds 34 mg Cu/kg dry sediment weight, demonstration that the Cu concentration falls within the range of background concentrations as measured at three reference sites in the water body **Requirement:** Yes **Applicability:** All farms except as noted in [71] and excluding those farms shown to be exempt from Indicator 4.7.3	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.	a) Farm has conducted testing of copper levels in sediment	Compliant		
		b. Provide evidence from measurements taken in 4.7.3b that copper levels are < 34 mg Cu/kg dry sediment weight.	b) Verified in MOM C samling analyzes. Copper levels are in the range thus below 34 mg/kg for the site.			
		c. If copper levels in 4.7.4b are ≥ 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).	c)N/A.			
		d. Analyze results from 4.7.4c to show the background copper concentrations as measured at three reference sites in the water body.	d) N/A.			
		e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle.	e) Submitted to ASC in email 02.02.2020.			< 34 mg Cu/kg
Footnote	[76] According to testing required under 4.7.3. The standards related to testing of copper are only applicable to farms that use copper-based nets or copper-treated nets.					
4.7.5	**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 **Requirement:** Yes **Applicability:** All farms except as noted in [71]	a. Identify all biocides used by the farm in net antifouling.	a) Antifoulants used is "North Sea Ultra" by Steen Hansen ref safety sheet dt 12.06.2014. (active subsatnce is "dikobberoksid" 67/548/EEC and EU 1999/45/EC, 1272/2008 (CLP).	Compliant		
		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.	b) The biocide is included on the List from ECHA European Chemical Agency date 24 September 2014. Source: EU 2016/1089. Approving Dicopper oxide as an existing active substance for use in biocidal products. Included in the Norwegian biocid order (FOR-2017-04-18-480) of 18.04.17, Ministry of Climate and Environment.			

PRINCIPLE 5: MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTALLY RESPONSIBLE MANNER						
Criterion 5.1 Survival and health of farmed fish [77]						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
Footnote	[77] See Appendix VI for transparency requirements for 5.1.4, 5.1.5 and 5.1.6.					
5.1.1	**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 when required **Requirement:** Yes **Applicability:** All	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.	a) Site specific Fish Health Plan for the sites in QMS.. Plan covers all aspect of relevant diseaes and parasite diagnostics and control measures. Internal veterinary services, responsible veterinarian. Dypeidet and Børøya dated 07.06.2019 by Karl F. Ottem.	Compliant		
		b. Ensure that the farm's current fish health management plan was reviewed and approved by the farm's designated veterinarian [78].	b) Approved and signed by dt.Karl Fredrik Ottem, fish health biologist HPR No: 7516525 dated 18.12.1980 Tiril Hoffstrøm Slettjord HPR No: 7896581 DATED 03.07.1987 fish health biologist Elisabeth Estelle Faureng HPR No: 10070058 Veterinerian Fish Health Manager Marit Hansen assigned to Karl's position recenty.			
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 **Applicability:** All	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.	a) a) Minimum 12 visits annually. System for weekly scheduled meetings covering e.g FH issues. Verified in veterinarian log for periode for site, 9 visits with documented reports. Børøya Mikael Fjed Wold f. nr 120994 39589 Site visits started by December (transfer of the fish) 04.12.2019. Åkerbla Mortality, HSMB (every 8 week sampling for the project) in W8/Rapport ID BESØK/ÅB-C3VC7-RR Raport. There has been 2 visits since transfer of the fish so far related to the legislation. Patolink 08.12.2019 PGO5603 Report date: 27.12.2019 SAV/PDV, 01.01.2020 PRV-1 was positive Raport date: 30.01.2020 Patogen Avd. Nord.	Compliant		
		b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79].	b,c) Tiril Hoffstrøm Slettjord HPR No: 7896581 DATED 03.07.1987 fish health biologist Elisabeth Estelle Faureng HPR No: 10070058 Veterinerian Fish Health Manager Marit Hansen assigned to Karl's position recenty.			
		c. Maintain records of the qualifications of persons identified in 5.1.2b.				
Footnote	[78] A designated veterinarian is the professional responsible for health management on the farm who has the legal authority to diagnose disease and prescribe medication. In some countries such as Norway, a fish health biologist or other professional has equivalent professional qualifications and is equivalent to a veterinarian for purposes of these standards. This definition applies to all references to a veterinarian throughout the standards document.					
Footnote	[79] A fish health manager is someone with professional expertise in managing fish health, who may work for a farming company or for a veterinarian, but who does not necessarily have the authority to prescribe medicine.					
5.1.3	**Indicator**: Percentage of dead fish removed and disposed of in a responsible manner **Requirement:** 100% [80] **Applicability:** All	a. Maintain records of mortality removals to show that dead fish are removed regularly and disposed of in a responsible manner.	a) 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 22.06.2018 til 31.12.2020. Seen "Prosedyre for håndtering av dødfisk,svimere og ensillasje" ID 289 dated 15.03.2019 Intelex quality management system.	Compliant		
		b. Collect documentation to show that disposal methods are in line with practices recommended by fish health managers and/or relevant legal authorities.	b) System established for handling and documentation according to requirements in national legislation handled by NFSA. Seen Handelsdocument, Scanbio Ingridients AS Invoice nr. : Scanbio, seen declaration 018020, dated 11.02.2020 11 m2 Kat 2 ensilage for the delivery made 11.02.2019 while we were there the 3 sites except of.			
		c. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification.	c) 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.					

5.1.4	**Indicator**: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis **Requirement:** 100% [81] **Applicability:** All	Note: Farms are required to maintain mortality records from the current and two previous production cycles. For first audit, records for the current and prior production cycle are required. It is recommended that farms maintain a compiled set of records to demonstrate compliance 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).	a) 100 % off Mortality categorised , documented in Fishtalk: Børøya Present cycle 19G accumulated: Total mortality % 2,55 2010G accumulated: Total mortality %16	Compliant		
		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.	b) N/A			
		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).	c) Mortality samples sendt lab for analyze.			
		d. Using results from 5.1.3a-c, classify each mortality event and keep a record of those classifications.	d) N/A			
		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).	e) Record are available and documented in Fishtalk production system where mortalitys are recorded and categorised according to FHP and mortality guide.			
		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).	f) Submitted to ASC in email dt.02.02.2020.			
Footnote	[81] If on-site diagnosis is inconclusive, this standard requires off-site laboratory diagnosis. A qualified professional must conduct all diagnosis. One hundred percent of mortality events shall receive a post-mortem analysis, not necessarily every fish. A statistically relevant number of fish from the mortality event shall be analyzed.					
5.1.5	**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.	a,b)2010 G %0 Viral Mortality	Compliant		≤ 10%
		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.				
		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).	c) Submitted to ASC in email dt.02.02.2020.			
Footnote	[82] Viral disease-related mortality count shall include unspecified and unexplained mortality as it could be related to viral disease.					

5.1.6	**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 ≤ 6%, then the requirement of 5.1.6 does not apply. If total mortality rate was > 6%, proceed to 5.1.6b.	a) 2010 Total mortality was 16%.	Compliant		16%.
		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.	b) Unexplained mortality rate was 0% (2010G)			
		c. Submit data on maximum unexplained mortality to ASC as per Appendix VI for each production cycle.	c) Data sent to ASC dated 02.02.2020.			
5.1.7	**Indicator**: A farm-specific mortalities reduction programme that includes defined annual targets for reductions in mortalities and reductions in unexplained mortalities **Requirement:** Yes **Applicability:** All	Note: Farms have the option to integrate their farm-specific mortality reduction program into the farm's fish health management plan (5.1.1).				
		a. Use records in 5.1.4a to assemble a time-series dataset on farm-specific mortalities rates and unexplained mortality rates.	a,b) 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 4,7% 12 months rolling (NL 3,2 % and FM 5,9 %).	Compliant		
		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.				
		c. Ensure that farm management communicates with the veterinarian, fish health manager, and staff about annual targets and planned actions to meet targets.	c) The target for the mortality is identified in general at every economical year and also beginning of every generation specific targets are identified. The farm manager has communication about subject with the FHM and staffs.			
Criterion 5.2 Therapeutic treatments [83]						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
Footnote	[83] See Appendix VI for transparency requirements for 5.2.1, 5.2.5, 5.2.6 and 5.2.10.					
Instruction to Clients and CABs for Criterion 5.2 - Records Related to Therapeutic Treatments Indicator 5.2.1 requires that farms maintain detailed record of all chemical and therapeutant use. Those records maintained for compliance with 5.2.1, if all consolidated into a single place, can be used to demonstrate performance against subsequent Indicators (5.2.1 through 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.	a) 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 Withdrawal 175 Day Degree identified on the prescription. The records meet requirements of this indicator.	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.	b) 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 and the records for all chemical and therapeutant for last complete cycle is available.			
		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).	c) Submitted to ASC in email dt.02.02.2020.			
Footnote	[84] Chemicals used for the treatment of fish.					

5.2.2	**Indicator**: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [85] in any of the primary salmon producing or importing countries [86] **Requirement:** None **Applicability:** All	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].	a) 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 xxxxxx with overview of banned substances. List for USA and Japan only permitted substances	Compliant		
		b. Maintain records of voluntary and/or mandatory chemical residue testing conducted or commissioned by the farm from the prior and current production cycles.	b) 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.			
		-	c) 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 government entity because of concerns around the substance. A substance banned in any of the primary salmon-producing or importing countries, as defined here, cannot be used in any salmon farm certified under the SAD, regardless of country of production or destination of the product. The SAD recommends that ASC maintain a list of a banned therapeutants.					
Footnote	[86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France.					
5.2.3	**Indicator**: Percentage of medication events that are prescribed by a veterinarian **Requirement:** 100% **Applicability:** All	a. Obtain prescription for all therapeutant use in advance of application from the farm veterinarian (or equivalent, see [78] for definition of veterinarian).	a) Record of prescriptions seen in Fish talk program. b) 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.	Compliant		
		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.				
5.2.4	**Indicator**: Compliance with all withholding periods after treatments **Requirement:** Yes **Applicability:** All	a. Incorporate withholding periods into the farm's fish health management plan (see 5.1.1a).	a) 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. b) Documented in Fishtalk, automatically notified/blocked according to degreedays witholdingtime stated in prescription. c) In Fish Talk where treatment dates are specified and compared to harvest dates. According to FHMP/VHP on withholding periods defined.	Compliant		
		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.				
		c. Show compliance with all withholding periods by providing treatment records (see 5.2.1a) and harvest dates for the most recent production cycle.				

5.2.5	**Indicator**: The farm shall publicly report (via Appendix VI) the: 1. Weighted Number of Medicinal Treatments (see Appendix VII) for each production cycle 2. The parasiticide load for each agent over the production cycle 3. The benthic parasiticide residue levels **Requirement:** Yes **Applicability:** All	a. Using farm data for therapeutants usage (5..2.1a) and the calculation presented in Appendix VII, calculate the Weighted Number of Medicinal Treatments (WNMT) 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. b. Provide the auditor with access to records showing how the farm calculated the WMNT score. c. Submit data on farm level WMNT score to ASC as per Appendix VI for each production cycle.	a) The WNMT score was calculated correctly and that the scores are accurate. Documented in Fish Talk. b) Treating an entire farm (all cages) Once, with Slice. Børøya WNMT: 0 (2010G) 19G: 1,73 c) Sent to ASC on 02.02.2020.	Compliant		
5.2.6	**Indicator**: The Weighted Number of Medicinal Treatments shall be at or below the country Entry Level (see Appendix VII) **Requirement:** Yes **Applicability:** All	a. Review WNMT scores from 5.2.5a to determine if the score is at or below the Country Entry Level (see Appendix VII) b. As applicable, submit data to ASC on WNMT score for the most recent production cycle (Appendix VI).	a) Norway Country Entry Level: 5. The WNMT score for the most recent production cycle: 2 b) Sent to ASC on 02.02.2020	Compliant		2
5.2.7	**Indicator**: The farm shall reduce the Weighted Number of Medicinal Treatments, after achieving indicator 5.2.6, with 25% per 2 years until the WNMT is at or below the Global Level (see Appendix VII). **Requirement:** Yes **Applicability:** All	a. Every 2 years after achieving 5.2.6, check the WNMT score calculated 2 years before as above (5.2.5a). Calculate the percent difference in WMNT score between current cycle and cycle of 2 years before. b. As applicable, submit data to ASC on WMNT score for the most recent production cycle and the two previous production cycles (Appendix VI).	a) The WNMT of the farm (2) is below the Global Level (3) b) Sent to ASC on 02.02.2020	N/A		
5.2.8	**Indicator**: The farm shall implement Integrated Pest Management (IPM) according to the guidance in Appendix VII. **Requirement:** Yes **Applicability:** All	a. Implement Integrated Pest Management (IPM) into farm management plans (see Appendix VII). b. Review and update IPM on a production cycle basis to reflect the effectiveness of applied methods and to determine next approaches.	a,b) Integrated Pest Management (IPM) has been made dated 05.02.2020 ABM, Lice plans includes obligations to keep all the farms in ABM up to date for the salmon lice and diseases (contamination), algea spreads. Lice levels keeping low, extra measurements in the area also fallowing plans included this document. All the facts and the contents has to be prepared in a good strategy	Compliant		
5.2.9	**Indicator**: The farm shall public present (e.g. via company website) the IPM-measures that the company applies which need to be approved by a authorised veterinarian. **Requirement:** Yes **Applicability:** All	a. Ensure the latest version of the IPM is public on the company website b. Ensure the IPM is signed-off by an authorized veterinarian.	Strategic plan on implementing Integrated Pest Management (IPM) has published and signed by Elisabeth Ann Mykebust it is available on Cermaq's dashboard.	Compliant		

5.2.10	**Indicator:** The farm shall monitor parasiticide residue levels annually in the benthic sediment directly outside the AZE. **Requirement:** Yes **Applicability:** All	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. b. If benthos throughout the full AZE is hard bottom, provide evidence to the CAB and request an exemption from 5.2.10 c. 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. d. Retain documentary evidence to show how scores were obtained. If samples were analysed an independent laboratory, obtain copies of results.	There is not any guideline for this requirement yet. N/A	N/A		
5.2.11	**Indicator**: Allowance for prophylactic use of antimicrobial treatments **Requirement:** None **Applicability:** All	a. Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles. b. Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3) c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.13).	N/A	N/A		
5.2.12	**Indicator**: Allowance for use of antibiotics listed as critically important for human medicine by the World Health Organization (WHO) **Requirement**: None **Applicability**: All	a. Maintain a current version of the WHO list of antimicrobials critically and highly important for human health [89]. b. If the farm has <u>not</u> used any antibiotics listed as critically important (5.2.12a) in the current production cycle, inform the CAB and proceed to schedule the audit. c. If the farm <u>has</u> used antibiotics listed as critically important (5.2.12a) to treat any fish during the current production cycle, inform the CAB prior to scheduling audit. d. If yes to 5.2.12c, 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 tracea	N/A	N/A		
5.2.13	**Indicator**: Number of treatments of antibiotics over the most recent production cycle **Requirement**: ≤ 3 **Applicability**: All	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. b. Calculate the total number of treatments of antibiotics over the most recent production cycle and supply a verifiable statement of this calculation.	N/A	N/A		

5.2.14	**Indicator**: If more than one antibiotic treatment is used in the most recent production cycle, demonstration that the antibiotic load is at least 15% less that of the average of the two previous production cycles **Requirement**: Yes **Applicability**: All	a. Use results from 5.2.13b to show whether more than one antibiotic treatment was used in the most recent production cycle. If not, then the requirement of 5.2.14 does not apply. If yes, then proceed to 5.2.14b.	N/A	N/A		
		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 produc				
		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.				
		d. Submit data on antibiotic load to ASC as per Appendix VI (if applicable) for each production cycle.				
5.2.15	**Indicator**: Presence of documents demonstrating that the farm has provided buyers of its salmon a list of all therapeutants used in production **Requirement**: Yes **Applicability**: All	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).	N/A			
		b. Maintain records showing the farm has informed all buyers of its salmon about all therapeutants used in production.	Example of delivery to buyers with trackIng back to farm cage was verified. Product VC, Packing List and Invoice for all Cermaq customers.	N/A		
Criterion 5.3 Resistance of parasites, viruses 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 **Requirement:** Yes **Applicability:** All	**Instruction to Clients for Indicator 5.3.1 - Identifying the 'Expected Effect' of Medicinal Treatment** Indicator 5.3.1 requires that farms identify treatments that have not produced the expected effect. The SAD Steering Committee recognizes that the "expected effect" will vary with health condition and type of medicinal treatment. Therefore farms and auditors will need to review the pre- and post-treatment condition of fish in order to understand and evaluate the impact of treatment. Example: sea lice treatment with emamectin benzoate The SAD SC recommends that a typical baseline for effectiveness of emamectin benzoate is a minimum of 90 percent reduction in abundance of lice on the farmed fish. To determine whether treatment has produced the expected effect, farm and auditor must review pre- and post-treatment lice counts. If the calculated percent reduction in lice is < 90% then the treatment did not produce the expected effect and a bio-assay should be performed to determine whether sea lice have developed resistance. Note: If field-based bio-assays for determining resistance are ineffective or unavailable, the farm shall have samples analyzed by an independent laboratory to detemine resistance formation. The auditor shall record in the audit report why field-based bio-assays were deemed ineffective and shall include results from the laboratory analyses of resistance formation.				
		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.	N/A		
		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.				
		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.				
		d. Keep a record of all results arising from 5.3.1c.				

5.3.2	**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 **Requirement:** Yes **Applicability:** All	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. 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.	N/A		
5.3.3	**Indicator**: Specific rotation, providing that the farm has >1 effective medicinal treatment product available, every third treatment must belong to a different family of drugs. **Requirement**: Yes **Applicability**: All	a. Determine how many effective medicinal treatment products the farm uses. b. If farm uses >1 effective medicinal treatment product, ensure every third treatment belongs to a different family of drugs.	N/A	N/A		
Criterion 5.4 Biosecurity management [95]						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
Footnote	[95] See Appendix VI for transparency requirements for 5.4.2 and 5.4.4.					
5.4.1	**Indicator**: Evidence that all salmon on the site are a single year class [96] **Requirement:** 100% [97] **Applicability:** All farms except as noted in [97]	a. Keep records of the start and end dates of periods when the site is fully fallow after harvest. 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. -	a) In Fish Talk and stocking/harvest reports: Fallowing periode between 2019G 09.09.19-25.11.19. Børøya Product Certificate delivered by Mainstream Norway AS. fISH gROUP: 1003 Cage: 1-120 Packing date: 02.05.2012 Welboat: Rune Viking Official Farm No: 20876 Farm Manager: Åge Hammersten Packing station: Alsvaåg Fiskeprodukter AS. Packing Station No: N 136 Density at harvest: 7.3 kg/m3 (av. 4.3 kg) Density at starvation: 16.9 kg/m3 Temperature: 5.1 C Origin and input of salmon: Smolt supplier: Hopen First Input: 17th Sept 2010 Breed and broodstock: Aquagen Weight: 58 g Seawater temp. 11 C G: 10G Hatching date: 12 Dec 2009 Veterinery Services: Vesterålen Fiskehelsetjeneste Vaccine name: Alpha ject 6-2 Treatments eg. emamectin benzoate 16th Oct 2010 to 22 Oct 2010 Quarantine 15 Nov 2010 Feed History: last day of feeding: 11.04.2012 Type of pigment: Astaxanthin. b) In Fish Talk and stocking/harvest reports. c) Ova CVs, Smolt CVs, smolts health cerificates, all information available in Fishtalk.	Compliant		
Footnote	[96] Gaps of up to six months between inputs of smolts derived from the same stripping are acceptable as long as there remains a period of time when the site is fully fallow after harvest.					
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) .					

5.4.2	**Indicator**: Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm experiences unexplained increased mortality, [98] the 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 **Requirement:** Yes **Applicability:** All	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.	No mortality event or events of UIA category mortality categorised nor suspected at farm. Ref to indicator 5.1.4a for details of monitoring.	N/A		
		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.				
		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.				
		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.				
		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).				
Footnote	[98] Increased mortality: A statistically significant 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.					
5.4.3	**Indicator**: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] **Requirement:** Yes **Applicability:** All	**Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health Code** Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standard, this means that the farm must have written procedures stating how the farm will initiate an aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = not previously found in the area or had been fully eradicated (area declared free of the 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 OIE for the specific pathogen; and - 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 farm practices are consistent with the intentions of the OIE Aquatic Animal Health Code by developing relevant policies and procedures and integrating them into the farm's fish health management plan. Note: The Steering Committee recognizes that establishment of quarantine zones will likely incorporate mandatory depopulation of sites close to the infected site and affect some, though not necessarily all, of the ABM.				
		a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version.	a) OIE AAHC presented and awareness demonstrated. Awareness of OIE aquatic Animal Health Code. VHP "Helseplan for matfiskanlegg" refers to OIE Aquatic Animal Health Code dated 15.03.2017 by Karl Fredrik Ottem, Silje Ramsvatn on the link www.oie.int.	Compliant		
		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.	b) Internal procedure in Intelex on practices in accordance with OIE AHC" Described in VHP, notification of diseases, contingency plan (Beredskapsplan for Cermaq, d.t. 27.03.2018, ID 1154) "Notification of diseases".			
		-	c) Confirmed during interviews			
Footnote	[101] Compliance is defined as farm practices consistent with the intentions of the Code, to be further outlined in auditing guidance. For purposes of this standard, this includes an aggressive response to detection of an exotic OIE-notifiable disease on the farm, which includes depopulating the infected site and implementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Quarantine zones will likely incorporate mandatory depopulation of sites close to the infected site and affect some, though not necessarily all, of the ABM. Exotic signifies not previously found in the area or had been fully eradicated (area declared free of the pathogen).					
Footnote	[102] OIE 2011. Aquatic Animal Health Code. http://www.oie.int/index.php?id=171.					

5.4.4	**Indicator**: If an OIE-notifiable disease [103] is confirmed on the farm, evidence that: 1. the farm, at a minimum, immediately culled the 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 **Requirement:** Yes **Applicability:** All	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. 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. 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. 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).	a) Fish health manager has the responsibility to inform governments if notifiable diseases occur. b) No occurrence of OIE-notifiable diseases. c) No occurrence of OIE-notifiable diseases. d) No occurrence of OIE-notifiable diseases. e) No occurrence of OIE-notifiable diseases.	Compliant		
Footnote	[103] At the time of publication of the final draft standards, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic haematopoietic necrosis, Infectious haematopoietic necrosis (IHN), Infectious salmon anemia (ISA), Viral hemorrhagic septicemia (VHS) and Gyrodactylosis (Gyrodactylus salaris).					
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.					
Social requirements in the standards shall be audited by an individual who is a lead auditor in conformity with SAAS Procedure 200 section 3.1.						
PRINCIPLE 6: DEVELOP AND OPERATE FARMS IN A SOCIALLY RESPONSIBLE MANNER						
6.1 Freedom of association and collective bargaining [106]						
		Compliance Criteria				
Footnote	[106] Bargain collectively: A voluntary negotiation between employers and organizations of workers in order to establish the terms and conditions of employment by means of collective (written) agreements.					
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 **Applicability:** All	a) 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. On sistes in Cermaq Vesterålen 70% of employees are organised. b) Worker Trade union (TU) representative was elected during meeting of employees. c) Worker 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) Interview at site has confirmed information. The TU representative has possibility to visit farms. Management is encouraging to be organised.	Compliant		
6.1.2	**Indicator:** Evidence that workers are free to form organizations, including unions, to advocate for and protect their rights **Requirement:** Yes **Applicability:** All	a) 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. b) Employer has created internet based Personal handbook and Ethical guidelines (last revision 2015-12-14) those documents have stated the right of association. c) Interview confirms communication. All workers confirmed free possibilities to be organised. Unorganized employees did not feel presue to organize.	Compliant		
6.1.3	**Indicator:** Evidence that workers are free and able to bargain collectively for their rights **Requirement:** Yes **Applicability:** All	a) Trade union representative confirms no outstanding cases against the farm site management for violations to the right of Freedom of associations. b) Collective bargaining is implemented via consultations and Tariff agreement with Trade unions. c) Interview with employees confirms are free to bargain collectively for their rights. Tariff agreeements are implemened for different type of positions, depnedent on union.	Compliant		

Criterion 6.2 Child labor					
		Compliance Criteria			
6.2.1	**Indicator:** Number of incidences of child [107] labor [108] **Requirement:** None **Applicability:** All except as noted in [107]	a) Requirements of standard applies b) Minimum age for working is 15 years. According to Norwgian law and Cermaq policies. No children can be employed. Youngest at time of audit is apprentice, 18 years old. Verified by interviewes with employees. c) The age records are in place in the HR managemet system and time managemen system Capitech	Compliant		
Footnote	[107] Child: Any person under 15 years of age. A higher age would apply if the minimum age law of an area stipulates a higher age for work or mandatory schooling. Minimum age may be 14 if the country allows it under the developing country exceptions in ILO convention 138.				
Footnote	[108] Child Labor: Any work by a child younger than the age specified in the definition of a child.				
6.2.2	**Indicator:** Percentage of young workers [109] that are protected [110] **Requirement:** 100% **Applicability:** All	a) 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. b) Identification process in place. c) Time sheets are maintained in time managemen system Capitech d) No young workers employed during the audit. e) 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) Site was inspected. No interviews were conducted as no young workers are employed during the audit.	Compliant		
Footnote	[109] Young Worker: Any worker between the age of a child, as defined above, and under the age of 18.				
Footnote	[110] Protected: Workers between 15 and 18 years of age will not be exposed to hazardous health and safety conditions; working hours shall not interfere with their education and the combined daily transportation time and school 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 chemicals).				
Footnote	[112] Hazardous work: Work that, by its nature or the circumstances in which it is carried out, is likely to harm the health, safety or morals of workers (e.g., heavy lifting disproportionate to a person's body size, operating heavy machinery, exposure to toxic chemicals).				
Criterion 6.3 Forced, bonded or compulsory labor					
		Compliance Criteria			
6.3.1	**Indicator:** Number of incidences of forced, [113] bonded [114] or compulsory labor **Requirement:** None **Applicability:** All	a) 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. b) After shift workers are free to leave c) No cases identified. d) No cases identified. e) No cases identified. f) Interview has confirmed information. Payroll records are maintained.	Compliant		
Footnote	[113] Forced (Compulsory) labor: All work or service that is extracted from any person under the menace of any penalty for which a person has not offered himself/herself voluntarily or for which such work or service is demanded as a repayment of debt. "Penalty" can imply monetary sanctions, physical punishment, or the loss of rights and privileges or restriction of movement (e.g., withholding of identity documents).				
Footnote	[114] Bonded labor: When a person is forced by the employer or creditor to work to repay a financial debt to the crediting agency.				

Criterion 6.4 Discrimination [118]					
		Compliance Criteria			
Footnote	[115] Discrimination: Any distinction, exclusion or preference that has the effect of nullifying or impairing equality of opportunity or treatment. Not every distinction, exclusion or preference constitutes discrimination. For instance, a merit- or performance-based pay increase or bonus is not by itself discriminatory. Positive discrimination in favor of people from certain underrepresented groups may be legal in some countries.				
6.4.1	**Indicator:** Evidence of comprehensive [116] and proactive anti-discrimination policies, procedures and practices **Requirement:** Yes **Applicability:** All	a) Ethical guidelines (last revision 2015-12-14) and Whistle blowing procedure (2017-08-16). Whistle Blowing reporting on: https://www.cermaq.com/wps/wcm/connect/cermaq/Contact-us/whistleblowing/whistleblowing b) Whistle blowing procedure (2017-08-16) is implemented. No discrimination cases reported. The complaints are managed according Conflict management procedure ID 429 last rev. 05.01.2019. c) 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. d) The trainings for site manager and workers are included in competence list. Seen competence and training record log on system *Intelex Komptansestyring*	Compliant		
Footnote	[116] Employers shall have written anti-discrimination policies 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.				
6.4.2	**Indicator:** Number of incidences of discrimination **Requirement:** None **Applicability:** All	a) No cases identified. b) The rights of employees are respected. During interview no discrimination cases reported	Compliant		
Criterion 6.5 Work environment health and safety					
		Compliance Criteria			
6.5.1	**Indicator:** Percentage of workers trained in health and safety practices, procedures [117] and policies on a yearly basis **Requirement:** 100% **Applicability:** All	a) Documentation is developed and is available in working places. Cermaq training for HSE: "Helse og Sikkerhet ver 2 - Grunnleggende opplæring i helse og sikkerhet". Auditor seen competence and training record log on system Intelex Komptansestyring, which includesHSE training for all new employees, and annual updates for all employees. Verified through employee interviewes. b) Alarm plan for each site developed and displayed at all sites togehther with Emergency preparedness plan Cermaq Norway (ver. 6 doc 1154, date 9/12-2019) Employees know emergency respond procedures. The training records are kept on site, ref Intelex Kompetansestyring. Employees are trained and annual refreshment trainings. Procedure for conducting the drills (ID 1126), dated 2/10-2018 is implemented. c) All alarm plans updated 1/11-19. Seen on all sites and vessels during audit First Aid and Sea resque drills were organised on sites 15.03.2019 for Børøya, Langøyhovden and Dypeidet. Seen MoM signed by participants	Compliant		
Footnote	[117] Health and safety training shall include emergency response procedures and practices.				
6.5.2	**Indicator:** Evidence that workers use Personal Protective Equipment (PPE) effectively **Requirement:** Yes **Applicability:** All	a) The List of health and safety hazards is maintained in H&S risk assessment documentation. b-c) PPE are managed through" Instruks for bruk av verneutstyr 2/1-19 doc 82, rev 14" which includes requirements for sites, lansbase, vessels, special activities and maintenence of PPE. All employees are provided requiredPPE and training in use of such equipment. New employees are trained according to "Helse og Sikkerhet ver 2 - Grunnleggende opplæring i helse og sikkerhet". Life vests are inspected every week, and salt tablets and CO_2 gas cylinder changed anually. d) Interview with employees confirms PPE management, training and maintenance of PPE is implementd in the organization	Compliant		
6.5.3	**Indicator:** Presence of a health and safety risk assessment and evidence of preventive actions taken **Requirement:** Yes **Applicability:** All	a) The procedure for risk assessment No 366 dated 21.08.2019 is implemented. For site Børøya the following risk assessments dated 30.04.2019 has been performed for Health and safety which includes all relevant activities on farm. Site specific Safety inspections are performed twice a year by site manager and safety representative. Report from last inspection at Børøya 20.12.2019 seen. One point is still not recified and closing date overdue. Rest of point ar closed, and closing verified during ASC audit site inspection. NC - Corrective action not closed b) Employees are trained and annual refreshment trainings are organised during risk analysis. Training records are maintained, ref Intelex Kompetansestyring. Last evaluation of the H&S risks and the training for employees took place 30.04.2019, ref 6.5.2 a) The safe job analysis is done prior to all major works on the site with definitions of risks and their management measures. All involve partisipates, including wellboat and service vessel personnel. c) 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.	Minor	Saftey Inspection performed 20.12.2019 - Corrective actions from action plan related to fire alarm was 1 month overdue from internal closing date, and still open. Safety inspection action plan log in TQM for Safety Inspection Børøya 20.12.2020	

6.5.4	**Indicator:** Evidence that all health- and safety-related accidents and violations are recorded and corrective actions are taken when necessary **Requirement:** Yes **Applicability:** All	a) 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. b) Company level electronic database INTELEX is managed with records for all H&S and environmental accidents and near accidents and their investigation. c) Corrective action plans are managed by INTELEX. d) The analysis is understood and improvements are implemented. Intelex log for the site shows that the system for reporting accidents and incidents is in active use. Employees confirmed to have received training in use of system, and that the it was in daily use.	Compliant		
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) Insurance is provided. Seen Insurance certifcate from Norwegian Inurance Partner signed 2/7-2019 for period 01.07-19 to 30.06.2020 Temporary employees are provided with accident insurance.	Compliant		
6.5.6	**Indicator:** Evidence that all diving operations are conducted by divers who are certified **Requirement:** Yes **Applicability:** All	Note: If the farm outsources its diving operations to an independent company, the farm shall ensure that auditors have access to specified information sufficient to demonstrate compliance with Indicator 6.5.6. It is the farm's responsibility to obtain copies of relevant documentation (e.g. certificates) from the dive company. a) The diving activities procedure is in use. The records of diving activities maintained on site. The check list was introduced to check information/documents prior to diving. b) Copies of divers' certificates are maintained. Seen last dive report, 22.11.19 INSPECTMAR, inc certificate references for all 3 divers	Compliant		
		Criterion 6.6 Wages			
		Compliance Criteria			
6.6.1	**Indicator:** The percentage of workers whose basic wage [118] (before overtime and bonuses) is below the minimum wage [119] **Requirement:** 0 (None) **Applicability:** All	a) Documents are available at the company. The Tariff agreement sets the minimum salary. b) Wages meet legal minimum wage according Tariff agreement and contracts with local trade unions. c) The information is available per employee. Documentary evidence is in place. Seen report for selected employees in Capitech time management	Compliant		
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 country, basic wages must meet the industry-standard minimum wage.				
6.6.2	**Indicator:** Evidence that the employer is working toward the payment of basic needs wage [120] **Requirement:** Yes **Applicability:** All	a) The assessment of cost of living were conducted. Reference made to Livsoppholdssatser - Statens innkrevingssentral 1. juli 2019 b) The calculations and comparison are done. The comparison with wages was conducted. The company wages are above BNW. Example used for calculation: Single employee, born 1996, no children, tax card 1701. Site technician without craftmanship. Worked one year. c) Wages exceed basic needs wage.	Compliant		
Footnote	[120] Basic needs wage: 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.				

6.6.3	**Indicator:** Evidence of transparency in wage-setting and rendering [121] **Requirement:** Yes **Applicability:** All	a) The contracts of employees has appendix defining the bonus application. The bonuses are defined in Bonus document. b) The clearly understood by workers. c) Wages are transferred to personal bank accounts d) Interview has confirmed information about wages. Payslips reviewed	Compliant		
Footnote	[121] Payments shall be rendered to workers in a convenient manner.				
	Criterion 6.7 Contracts (labor) including subcontracting				
		Compliance Criteria			
6.7.1	**Indicator:** Percentage of workers who have contracts [122] **Requirement:** 100% **Applicability:** All	a) Contracts available, records maintained in system - Aditro HR system. All employees have contract. Verified by employee interviewes, and review of contracts b) No evidences, verified in employee interviewes. c) Interview confirms legal employment by contracts	Compliant		100%
Footnote	[122] Labor-only contracting relationships or false apprenticeship schemes are not acceptable. This includes revolving/consecutive labor contracts to deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practice of hiring workers under apprenticeship terms without stipulating terms of the apprenticeship or wages under contract. It is a "false" apprenticeship if its purpose is to underpay people, avoid legal obligations or employ underage workers. Labor-only contracting arrangement: The practice of hiring workers without establishing a formal employment relationship for the purpose of avoiding payment of regular wages or the provision of legally required benefits, such as health and safety protections.				
6.7.2	**Indicator:** Evidence of a policy to ensure social compliance of its suppliers and contractors **Requirement:** Yes **Applicability:** All	a) The Ethical and corporate responsibility policy has statements of evaluation of suppliers and subcontractors. Procedure for Classification of suppliers ID 644 is used for dividing to critical or non-critical suppliers. b) 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. c) The reference to Ethical guidelines for suppliers was sent to suppliers and subcontractors. Guidline last updated January 2017. https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/Selskapet/vaare-retningslinjer/Vaare-retningslinjer	Compliant		
	Criterion 6.8 Conflict resolution				
		Compliance Criteria			
6.8.1	**Indicator:** Evidence of worker access to effective, fair and confidential grievance procedures **Requirement:** Yes **Applicability:** All	a) Procedure of Conflict resolution defines ways of communication of conflicts. Whistle blowing procedure is developed, which is included in Personnel handbook. Conflict management procedure ID 429 is defined. Whistle blowing reporting on net: https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/Selskapet/vaare-retningslinjer/Vaare-retningslinjer b) Workers are familiar with procedures for conflict resolution. c) The interviews are confirming the information above.	Compliant		
6.8.2	**Indicator:** Percentage of grievances handled that are addressed [123] within a 90-day timeframe **Requirement:** 100% **Applicability:** All	a) The system of handling of grievances, complaints and labour conflicts is in place and effective. 90-day timeframe is implemented. b) The system of handling of grievances, complaints and labour conflicts is in place. 90-day timeframe is implemented and known. Documentation is maintained. No conflict or grievance reported. Verified by employee interviews. c) Documentation is maintained. No incidents. Confirmed during interviewes.	Compliant		
Footnote	[123] Addressed: Acknowledged and received, moving through the company's process for grievances, corrective action taken when necessary.				

Criterion 6.9 Disciplinary practices					
		Compliance criteria			
6.9.1	**Indicator:** Incidences of excessive or abusive disciplinary actions **Requirement:** None **Applicability:** All	a) The employer does not use excessive or abusive disciplinary actions. No cases of improper disciplinary behaviour, no warnings were issued. b) No cases identified. c) Interview has confirmed no cases of improper disciplinary behaviour.	Compliant		
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.				
6.9.2	**Indicator:** Evidence of a functioning disciplinary action policy whose aim is to improve the worker [125] **Requirement:** Yes **Applicability:** All	a) Disciplinary policy is defined in Personal handbook. The verbal and written disciplinary warnings may be used in case of misbehaviour during the work. No warning issued. b) 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; dismissal shall be the last resort. Policies for bonuses, incentives, access to training and promotions are clearly stated and understood, and not used arbitrarily. Fines or basic wage deductions shall not be acceptable disciplinary practices.				
Criterion 6.10 Working hours and overtime					
		Compliance criteria			
6.10.1	**Indicator:** Incidences, violations or abuse of working hours and overtime laws [126] **Requirement:** None **Applicability:** All	Note: Working hours, night work and rest periods for workers in agriculture should be in accordance with national laws and regulations or collective agreements (e.g. The Safety and Health in Agriculture Convention, 2001). Additional information can be found on the website of the International Labour Organization (www.ilo.org).			
		a) The time scheme for technicians 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. Site manager and land base manager is working normal day, 7,5 hours. b) Workers are registering working hours daily into Capitech system. Site manager approves. Working hours are within allowed limits. Verified by reviewing reports on site c) The work in shifts is applied and agreed by workers. d) Interview has confirmed no abuse of working time and overtime amounts.	Compliant		
Footnote	[126] In cases where local legislation on working hours and overtime exceed internationally accepted recommendations (48 regular hours, 12 hours overtime), the international standards will apply.				
6.10.2	**Indicator:** Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional circumstances **Requirement:** Yes **Applicability:** All except as noted in [130]	a) Overtime for workers is paid at premium rate as could be seen in payslips. b) The procedure for working hours was developed. The timesheets are managed in Capitech system. c) Interviews have confirmed voluntary overtime.	Compliant		
Footnote	[127] Compulsory overtime is permitted if previously agreed to under a collective bargaining agreement.				
Footnote	[128] Premium rate: A rate of pay higher than the regular work week rate. Must comply with national laws/regulations and/or industry standards.				
Criterion 6.11 Education and training					
		Compliance criteria			
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 **Requirement:** Yes **Applicability:** All	a) 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. b) Training records maintained on site and Intelex system. Vesterålen sites escape training held 14.05.2019. Seen training log c) Interview confirms that company supports education initiatives. All had received training including, but not limited to in Fish health, fish welfare, HSE, chemical handling and escape prevention.	Compliant		

Criterion 6.12 Corporate policies for social responsibility					
		Compliance criteria			
6.12.1	**Indicator:** Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11 above **Requirement:** Yes **Applicability:** All	a) Company level policies are available and are in line with requirements of the standard. Policies are displayd on all sites b) Policies are approved by senior managent, last signed in April 2019. . c) The policies cover all company operations, including Health, Safety, Environment and Social policies d) The access is provided.	Compliant		
Footnote	[129] Applies to the headquarters of the company in a region or country where the site applying for certification is located. The policy shall relate to all of the company's operations in the region or country, including grow-out, smolt production and processing facilities.				
Social requirements in the standards shall be audited by an individual who is a lead auditor in conformity with SAAS Procedure 200 section 3.1.					
PRINCIPLE 7: BE A GOOD NEIGHBOR AND CONSCIENTIOUS CITIZEN					
Criterion 7.1 Community engagement					
		Compliance Criteria			
7.1.1	**Indicator:** Evidence of regular and meaningful [130] consultation and engagement with community representatives and organizations **Requirement:** Yes **Applicability:** All	a) Last meeting for sites in Vesterålen held at landbase Sandset 05.10.2017. MoM from meeting seen. 20 perosn participated including local Mayor, neighbours and representatives from harbour authorities. Agenda: Presentation Cermaq, Sea production, sustainibility and ASC standard, open session with question from stakeholders. Cermaq hold both local and regional stakeholder meetings. Regional stakeholder meeting held 19.02.2019 in Steigen. b) Consultations have included main points required by the standard. c) The participants from local community have participated in consultation. They were invited to contribute to agenda. Questions were answered and clarified during meeting. d) 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) The invitation and minutes of meeting are available. f) Representatives from the local community and organizations are invited to give feedback and participate in audit, ref Form 3, Public disclosure form. No feedback received. No interviewes considered necessary to perform for audit of site.	Minor	Requirement in standard says at least annual pro-activ consultation with local community, ref VR 225. With reference to VR 225 stakeholders have the opportunity to request for 1 additional meeting per year, as needed. Last meeting with local community was held October 2017. The NC is stated as minor as logs show that Cermaq has performed meeting in other areas in the region in 2 times in 2019, and that the sites in Vesterålen has had 2 beach cleaning initiatives in 2019.	
Footnote	[130] Regular and meaningful: Meetings shall be held at least bi-annually with elected representatives of affected communities. The agenda for the meetings should in part be set by the community representatives. Participatory Social Impact Assessment methods may be one option to consider here.				
7.1.2	**Indicator:** Presence and evidence of an effective [131] policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations **Requirement:** Yes **Applicability:** All	a) The complaints could be delivered via company e-mail, company workers or whistle blowing channel. b) Cermaq has policy which covers stakeholder communication and complaints. Non-conformity system TQM used to register and follow-up. c) No complaints related to farm received. d) Representatives from the local community and organizations are invited to give feedback and participate in audit, ref Form 3, Public disclosure form. No feedback received. No interviewes considered necessary to perform for audit of site.	Compliant		
Footnote	[131] Effective: In order to demonstrate that the mechanism is effective, evidence of resolutions of complaints can be given.				
7.1.3	**Indicator:** Evidence that the farm has posted visible notice [132] at the farm during times of therapeutic treatments and has, as part of consultation with communities under 7.1.1, communicated about potential health risks from treatments **Requirement:** Yes **Applicability:** All	a) The yellow signs are available. The procedure for using therapeutics ID 191, dated dated 05.04.2018 covers this requirement. b) Signs at site are used during medication and in the withholding period. c) Communications for potential health risks took place during the consultation meeting. Medication was a point on the agenda The risks related to external environment and people is well defined in the risk assessment for the site d) No interviewes considered necessary to perform for audit of site.	Compliant		
Footnote	[132] Signage shall be visible to mariners and, for example, to fishermen passing by the farm.				

Criterion 7.2 Respect for indigenous and aboriginal cultures and traditional territories					
		Compliance 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 people. However, when boundaries of indigenous territories are undefined or unknown, there is no simple way to establish whether the 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.					
7.2.1	**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]	N/A. This indicator is handled by regulatory bodies in the governmental license process. There are no indigenous Sami groups in Vesterålen	N/A		
7.2.2	**Indicator:** Evidence that the farm has undertaken proactive consultation with indigenous communities **Requirement:** Yes [133] **Applicability:** All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	N/A. There are no indigenous Sami groups in Vesterålen region	N/A		
Footnote	[133] All standards related to indigenous rights only apply where relevant, based on proximity of indigenous territories.				
7.2.3	**Indicator:** Evidence of a protocol agreement, or an active 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 people [133]	N/A. There are no indigenous Sami groups in Vesterålen region	N/A		
Footnote	[134] To demonstrate an active process, a farm must show ongoing efforts to communicate with indigenous communities, an understanding of key community concerns and responsiveness to key community concerns through adaptive farm management and other actions.				
Criterion 7.3 Access to resources					
		Compliance Criteria			
7.3.1	**Indicator:** Changes undertaken restricting access to vital community resources [135] without community approval **Requirement:** None **Applicability:** All	a) No resources that are vital for community are impacted by the site. This is verified by government during the application to get the licence to start the site. b) The community approval for resources was done during operation application processing to start the sites. c) No interviewes considered necessary to perform for audit of site.	Compliant		
Footnote	[135] Vital community resources can include freshwater, land or other natural resources that communities rely on for their livelihood. If a farm site were to block, for example, a community's sole access point to a needed freshwater resource, this would be unacceptable under the Dialogue standard.				

7.3.2	**Indicator:** Evidence of assessments of company's impact on access to resources **Requirement:** Yes **Applicability:** All	a) Documented assessments are performed and communicated during the application processing to start the sites, and is approved by government. Annual risk assessments and Consequence surveys are used to monitor and control any changes b) Stakeholder rcommunication and meetings are used to corroborate the accuracy of conclusions in site impact assessments. No interviewes considered necessary to perform for audit of site.	Compliant		
INDICATORS AND STANDARDS FOR SMOLT PRODUCTION A farm seeking certification must have documentation from all of its smolt suppliers to demonstrate compliance with the following standards. The requirements are, in general, a subset of the standards in Principles 1 through 7, focusing on the impacts that are most relevant for smolt facilities. In addition, specific standards are applied to open systems (net pens), and to closed and semi-closed systems (recirculation and flow-through). [136]					
Footnote	[136] The SAD SC proposes this approach to addressing environmental and social performance during the smolt phase of production. In the medium term, the SC anticipates a system to audit smolt production facilities on site. In the meantime, farms will need to work with their smolt suppliers to generate the necessary documentation to demonstrate compliance with the standards. The documentation will be reviewed as part of the audit at the grow-out facility.				
SECTION 8: STANDARDS FOR SUPPLIERS OF SMOLT					
Standards related to Principle 1					
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**		
8.1	**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	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). b. Where legal authorisation related to water quality are required, obtain copies of smolt suppliers' permits. c. Obtain records from smolt suppliers showing monitoring and compliance with discharge laws, regulations, and permit requirements as required. -	a) The supplier of smolts is Hopen. The production system of smolt suppliers is semi closed with discharging outlet water into sea. b) Hopen: Approval from Nordland Fylkesmannen date 15.7.2004 for maximum 2,5 mill smolts per year, after new approval 25.05.2000, from county veterinarian Nordland. Water abstraction permit from Forsanvassdraget, dated 9.9.2016, Fylkesmannen. Water abstraction permit from Fylkesmannen Nordland, for 230 tons feed (Dry matter) 15.7.2004, 8 m3 per min, not specified permit for water abstraction, max capacity is 19 m3 per min. Nordland Fylkesmann, discharge permit date 15.7.2004, with no requirements for cleaning of discharge water. c) Hopen: System for records and monitoring in place. Compliance discharge laws verified by regulatory authorities: Inspection from Mattilsynet 21.05.2019, seen report and closing of 1 NC related to procedure for delivery of smolt. NC Closed 29/8-19. Inspection from Fiskeridirektoratet 04.07.2019, seen report and closing of 1 NC. The NC was closed 16.08.2019.	Compliant		
8.2	**Indicator**: Compliance with labor laws and regulations **Requirement:** Yes **Applicability:** All Smolt Producers	a. Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations. 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)	a) Hopen is internal supplier. Therefore, Cermaq policies apply. b) Hopen: Non in 2019. Inspection from Arbeidstilsynet from date 08.05.2018. NCs regarding using PPE and NCs were closed on 08.10.2018.	Compliant	

Standards related to Principle 2						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
8.3	**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 **Requirement:** Yes **Applicability:** All Smolt Producers	Note: If the smolt facility has previously undertaken an independent assessment of biodiversity impact (e.g. as part of the regulatory permitting process), the farm may obtain and use such documents as evidence to demonstrate compliance with Indicator 8.3 as long as all components are covered.				
		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.	a, b) Hopen: Risk assesment dated on 09.05.2019. includes asociated riskes related to animals, escapes, enviroments, sea floor. Survey B-survey performed by AkvaPlan Niva AS, July 2016 B-survey (every 4. year), result category 1, and July 2016 category 1, C-survey, result moderat.	Compliant		
		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.				
8.4	**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) **Requirement:** 4 kg/t of fish produced over a 12-month period **Applicability:** All Smolt Producers	**Instruction to Clients for Indicator 8.4 - Calculating Total Phosphorus Released per Ton of Fish Produced** Farms must confirm that each of their smolt suppliers complies with the requirement of indicator 8.4. This specifies the maximum amount of phosphorus that a smolt production facility can release into the environment per metric ton (mt) of fish produced over a 12-month period. The requirement is set at 4 kg/mt. The calculation of total phosphorus released is made using a "mass balance" approach. Detailed instructions and formulas are given in Appendix VIII-1. If applicable, farms may take account of any physical removals of phosphorus in the form of sludge provided there is evidence to show: - the smolt supplier has records showing the total quantity of sludge removed from site over the relevant time period; - the supplier determined phosphorus concentration (% P) in removed sludge by sampling and analyzing representative batches; and - the sludge was properly disposed off site and in accordance with the farm's biosolid management plan.				
		a. Obtain records from smolt suppliers showing amount and type of feeds used for smolt production during the past 12 months.	a) Production reports and records in Fish Talk - Hopen: 230554 kg feed for period 1/1 - 31/12-2019 (Source a-g Fosfor calculation 1.1-31.12-2019 Cermaq Hopen) b) Declaration per feed type and particle size from feed suppliers. (Values for different feed types ranging from 1.60 to 2.0% phosphorus content c) Hopen: 3998,6 kg P in total feed d) Records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced are available. Hopen: Biomass produced: 221.663 kg, 221.66 mt e) Calculations are correct. Hopen: 13,74 kg phosphorus in fish biomass (mt) produced 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 f) No sludge produced/removed g) NA	Compliant		13,74 ref VR 39
		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).				
		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.				
		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.				
		e. Calculate the amount of phosphorus in fish biomass produced (result from 8.4d) using the formula in Appendix VIII-1.				
		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.				
		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.				

Standards related to Principle 3						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
8.5	**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 Standard **Requirement:** Yes [137] **Applicability:** All Smolt Producers except as noted in [137]	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. 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.	Salmo salar is native to region.	N/A		
Footnote	[137] Exceptions shall be made for production systems that use 100 percent sterile fish or systems that demonstrate separation from the wild by effective physical barriers that are in place and well-maintained to ensure no escapes of reared specimens or biological material that might survive and subsequently reproduce.					
8.6	**Indicator**: Maximum number of escapees [138] in the most recent production cycle **Requirement:** 300 fish [139] **Applicability:** All Smolt Producers except as noted in [139]	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. 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. 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]). 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.	a) 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) b) No incident reported. Verified by Fisheries Directorate escape incidents overviw (www.F.Dir.no) c) Internal smolt supplier. All records in Fish Talk d) 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)	Compliant		0
Footnote	[138] Farms shall report all escapes; the total aggregated 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 such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there was no reasonable way to predict the events that caused the episode. Extreme weather (e.g., 100-year storms) or accidents caused by farms located near high-traffic waterways are not intended to be covered under this exception.					

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%.	a, b) Last secure point of counting in vaccination. Biocounter electronic counting/registartion system documents presented. Hopen uses AquaScan control Unit. 98-100% accurate.	Compliant		98-100%
Footnote	[140] Accuracy shall be determined by the spec sheet for counting machines and through common estimates of error for any hand counts.					
Standards related to Principle 4						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
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.	a) Cermaq internal document "Avfallsplan Cermaq Norway" version 14, dated 20-25.09.2019 with authorised service provider Iris on specialwaste and Østbø. Public service on domestic, type of waste defined, domestic, special waste/chemicals, for recycling etc. evaluation of environmental impacts The summary of waste delivered form Hopen to certified companies was seen. For example the invoice 391221 from Østbø dated 13.02.2020 was seen.	Compliant		
8.9	**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	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.	a) Records OK in excel documents. (Energibruk settefisk Cermaq Hopen YTD19) b) Hopen: 2019 consumption of scope 1 = 59703120 KJ and scope 2 = purchased electricity = 7493541240 KJ. Tot Scope 1+2 = 7553244360 kj c) Hopen: 221,66 mt BM produced d) Hopen: 34075350 kJ/Mt BM produced e) Records OK in excel. Continuous evaluation.	Compliant		34075350 kj/Mt
		b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year.				
		c. Obtain records to show the smolt supplier calculated the total weight of fish in metric tons (mt) produced during the last year.				
		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.				
		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.				

8.10	**Indicator**: Records of greenhouse gas (GHG [141]) 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	Note: see instructions for Indicator 4.6.2.				
		a. Obtain records of greenhouse gas emissions from the smolt supplier's facility.	a) Records OK (Energibruk settefisk Cermaq Hopen YTD19) b) Hopen: Seen for 2017-2019. 2019 Scope 1 on farm genereated energy=4214 Kg CO 2 (conv.factor is 2,53.2,67) Scope 2 emission (conv,factor 0,091) = 529054,03 kg CO2. Total Scope 1+2 = 533267,88Kg CO2 c) Calculaitons and asessment provided by CO2 focus. Data from IEA 2013, SSB 2013, IPCC 2006. d) CO2 used e) Calculaitons and asessment provided by CO2 focus. Data from IEA 2013, SSB 2013, EIA 2011, IPCC 2006.	Compliant		533267.88 kg Co2
		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.				
		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.				
		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 compliance with requirements Appendix V-1 at least annually.				
Footnote	[141] 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 (N2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF_6).					
Footnote	[142] GHG emissions must be recorded using recognized methods, standards and records as outlined in Appendix V.					
	Standards related to Principle 5					
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
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 **Requirement:** Yes **Applicability:** All Smolt Producers	a. Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish disease and parasites.	a, b) Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian (fish health manager) dt 26.08.2019 .	Compliant		
		b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's designated veterinarian.				

8.12	**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	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. b. Maintain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence. c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received. 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.	a) Hopen: Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian (fish health manager) dt 26.08.2019 . b) In fish health plan and CV the ttype of diseases and control monitoring strategies, vaccines/pathogens type/product name detailed c) In smolt CV transfered to sea and Fish Talk with dates and type for smolts for site, 100% vaccination is a legal requirement controlled by NFSA. For example vaccination on 20-07-2018 at Hopen with Alpha Ject Micro 6 was seen in Fish CV d) 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.	Compliant		100%
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 vaccinations to use and demonstrate to the auditor that this decision is consistent with the analysis.					
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% **Applicability:** All Smolt Producers	**Instruction to Clients for Indicator 8.13-- Testing of Smolt for Select Diseases** The farm is responsible for developing and maintaining a list of diseases of regional concern for which each smolt group should be tested. The list of diseases shall include diseases that originate in freshwater and are proven or suspected to occur in seawater (and for which seawater fish-to-fish transmission is a concern). The designated veterinarian to the smolt supplier 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. The analysis must be available to the CAB upon request. Note: A "smolt group" is defined as a population that shares disease risk, including environment, husbandry, and host factors that might contribute to sharing disease agents for each group.				
		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 group received by the farm has been tested for the diseases in the list (8.13a).	a) 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. b) Veterinary visits according to VHP. Smolt group health certificate. Patogen analyse, tested for PRV and ILA, IPN, PRV, PMCV pre-stocking. 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.					

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.	a) 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		
8.15	**Indicator**: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [145] in any of the primary salmon producing or importing countries [146] **Requirement:** Yes **Applicability:** All Smolt Producers	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]. b. Inform smolt supplier that the treatments on the list cannot be used on fish sold to a farm with ASC certification. 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.	a) 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 b) Hopen is internal smolt supplier. Same system applies for both farm and supplier, and information is shared and known to both parties by fish health department c) Vaccines in fish CV and Fish Talk - type and producer and batch. Ananesthetics and antiparasite treatment formalin, ok according to list. No AB used.	Compliant		
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 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 **Requirement:** ≤ 3 **Applicability:** All Smolt Producers	a. Obtain from the smolt supplier records of all treatments of antibiotics (see 8.14a). b. Calculate the total number of treatments of antibiotics from their most recent production cycle.	a) No AB used. Seen fish CV with all treatments identifed. b) No AB used. Seen fish CV with all treatments identifed.	Compliant		0
8.17	**Indicator**: Allowance for use of antibiotics listed as critically important for human medicine by the WHO [147] **Requirement:** None [148] **Applicability:** All Smolt Producers	a. Provide to smolt supplier(s) a current version of the WHO list of antimicrobials critically and highly important for human health [147]. 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. 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.	a, b, c) Hopen is internal supplier. Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. List of allowed and banned substances - against WHO critical list included in the plan. No AB used. Fish CVs with all treatments were verified.	Compliant		
Footnote	[147] The 3rd edition of the WHO list of critically and highly important antimicrobials was 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.					

8.18	**Indicator**: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150] **Requirement:** Yes **Applicability:** All Smolt Producers	Note: see instructions for Indicator 5.4.3 regarding evidence of compliance with the OIE Aquatic Animal Health Code.				
		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).	a, b, c) Hopen is an internal suppliers, is operated in accordance with the Cermaq policy and procedures concerning compliance with the OIE Aquatic Animal Health Code. See Cermaq Statement dated 18.01.2018 on ASC requirements regarding OIE Aquatic Animal Health Code for smolt deliveries. The statement is signed by a fish heath manager.	Compliant		
		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.				
		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.				
Footnote	[149] Compliance is defined as farm practices consistent with the intentions of the Code, to be further outlined in auditing guidance. For purposes of this standard, this includes an aggressive response to detection of an exotic OIE-notifiable disease on the farm, which includes depopulating the infected site and implementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exotic signifies not previously found in the area or had been fully eradicated (area declared free of the pathogen).					
Footnote	[150] OIE 2011. Aquatic Animal Health Code. http://www.oie.int/index.php?id=171.					
Standards related to Principle 6						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
8.19	**Indicator**: Evidence of company-level policies and procedures in line with the labor standards under 6.1 to 6.11 **Requirement:** Yes **Applicability:** All Smolt Producers	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.	a) The internal Smolt supplier used: company documents apply.	Compliant		
		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.	b) Statements from suppliers were seen. No inspection on labor issues.			
Standards related to Principle 7						
		Compliance Criteria (Required Client Actions):	**Auditor Evaluation (Required CAB Actions):**			
8.20	**Indicator**: Evidence of regular consultation and engagement with community representatives and organizations **Requirement:** Yes **Applicability:** All Smolt Producers	**Instruction to Clients for Indicator 8.20 - Consultation and Engagement with Community Representatives** Farms must comply with Indicator 7.1.1 which requires that farms engage in regular consultation and engagement with community representatives and organizations. Under Indicator 8.20, farms must show how each of their smolt suppliers complies with an equivalent requirement. Farms are obligated to maintain evidence that is sufficient to show their suppliers remain in full compliance. Evidence shall be documentary (e.g. meeting agenda, minutes, report) and will substantiate the following: - the smolt supplier engaged in "regular" consultations with the local community at least twice every year (bi-annually); - the supplier's consultations were effective (e.g. using participatory Social Impact Assessment (pSIA) or similar methods); and - the supplier's consultations included participation by elected representatives from the local community who were asked to contribute to the agenda.				
		a. From each smolt supplier obtain documentary evidence of consultations and engagement with the community.	a) The last invitation was sent 12.10.2018 to neighbours, officials and other interested parties for meeting at Site Hopen 16.11.2018. With reference to Vr225 stakholders have the opportunity to request for 1 additional meeting per year, as needed.	Compliant		
		b. Review documentation from 8.20a to verify that the smolt supplier's consultations and community engagement complied with requirements.	b) 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 **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.	a) The procedure for complaints was presented, dated 09.10.2018. If any complaint is received it will be effectively addressed. No complaint has been recieved.	Compliant		
8.22	**Indicator**: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations **Requirement:** Yes **Applicability:** All Smolt Producers	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. 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) 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. b) 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.	N/A		
8.23	**Indicator**: Where relevant, evidence that the farm has undertaken proactive consultation with indigenous communities **Requirement:** Yes **Applicability:** All Smolt Producers	a. See results of 8.22a (above) to determine whether the requirements of 8.23 apply to the smolt supplier. b. Where relevant, obtain documentary evidence that smolt suppliers undertake proactive consultations with indigenous communities.	a) It was communicated during the application processing to start the sites. Based on 8.2.2 a) the requirements of 8.2.3. do not apply. b) No consultation is applicable. c) No traditional and indigenous groups are involved.	N/A		
ADDITIONAL REQUIREMENTS FOR OPEN (NET-PEN) PRODUCTION OF SMOLT In addition to the requirements above, if the smolt is produced in an open system, evidence shall be provided that the following are met:						
8.24	**Indicator**: Allowance for stocking smolts produced in cage-culture **Requirement:** Permitted only if supplying farms are 1) operated in a region where indigenous salmonids are present of the same species being cultivated and 2) the farm is certified to th	a. Obtain documentary evidence that the smolt suppliers operates in a region where indigenous salmonids are present of the same species being cultivated. b. Obtain documentary evidence that the smolt supplier is certified to the ASC Freshwater trout Standard	No net-pens, tanks only.	N/A		
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]:						
8.25	**Indicator**: Water quality monitoring matrix completed and submitted to ASC (see Appendix VIII-2) **Requirement:** Yes [155] **Applicability:** All Smolt Producers Using Semi-Closed or Closed Production Systems	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. b. Obtain water quality monitoring matrix from smolt suppliers and review for completeness. 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 discharges into freshwater	N/A		
Footnote	[155] See Appendix VI for transparency requirements for 8.25.					

8.26	**Indicator**: Minimum oxygen saturation in the outflow (methodology in Appendix VIII-2) **Requirement:** 60% [156,157] **Applicability:** All Smolt Producers Using Semi-Closed or Closed Production Systems	a. Obtain the water quality monitoring matrix from each smolt supplier (see 8.32b). b. Review the results (8.33a) for percentage dissolved oxygen saturation in the effluent to confirm that no measurements fell below 60% saturation. 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 (Ap	No discharges into freshwater	N/A		
Footnote	[156] A single oxygen reading below 60 percent would require daily continuous monitoring with an electronic probe and recorder for at least a week demonstrating a minimum 60 percent saturation at all times.					
Footnote	[157] See Appendix VI for transparency requirements for 8.33.					
8.27	**Indicator**: Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic health that is similar or better than surveys upstream from the discharge (methodology in Appendix VIII-3) **Requirement:** Yes **Applicability:** All Smolt Producers Using Semi-Closed or Closed Production Systems	a. Obtain documentation from smolt supplier(s) showing the results of macro-invertebrate surveys. b. Review supplier documents (8.34a) to confirm that the surveys followed the prescribed methodology (Appendix VIII-3). 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 discharges into freshwater	N/A		
8.28	**Indicator**: Evidence of implementation of biosolids (sludge) Best Management Practices (BMPs) (Appendix VIII-4) **Requirement:** Yes **Applicability:** All Smolt Producers Using Semi-Closed or Closed Production Systems	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 how the farm is dealing with biosolids responsibly. c. 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 maintenance, and disposal as described in Appendix VIII-2.	No discharges into freshwater	N/A		

11 Findings

11.1 DO NOT DELETE ANY COLUMN
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.)
11.5 Add new rows as needed
11.6 Adjust the column wide as needed - to show the whole text

NC reference	Indicator	Grade of NC	Description of NC	Evidence	Date of detection	Status	Related VR (#)	Root cause (by client)	Corrective/ preventive actions proposed by UoC and accepted by CAB	Deadline for NC close-out	Evaluation by CAB (including evidence)	Actual date of close-out	Date request for delay received	Justification for delay	Next deadline	Request evaluation by CAB	Date request approved
	1.1.1	Minor	Lack of this sign is a breach on provisions in the animal by-product regulation https://lovdata.no/dokument/SF/forskrift/2016-09-14-1064 and therefore not in compliance with all applicable local and national legal requirements and regulations regarding aquaculture land and water use. Failure does not meet the definition of a major Non-conformity and is not likely to result in the breakdown of a system to meet an ASC requirement.	a) 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. b) Aquaculture licence salmonoids issued by Nordland Fylkeskommune 04.12.2014, ref 14/4453 for Lisence 20875 Børøya, 3120 MTB. Permist included in site (ref www.barentswatch.com and https://register.fiskeridir.no/akvareg): N-HM-05, N-SG-18, N-SG-29, N-SG-37, N-SG-38, N-SG-39, N-Ø-04, N-Ø-07, N-Ø-17 Approved operating plan for 2019-2020 from Fisheries Directorate dated 26.02.2019 with reference number of 18/15753 for sites Børøya, Dypeidet and Langøyhovden. Discharge permit from Fylkesmannen i Nordland, ref 2006/4762 date 06.12.2011 Discharge permit for 3120 MTB. c) No inspections since last audit d) 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 NC: Site inspection on Børøya: Lack of sign" KAT 2 Dødfisk ensilasje on dead fish ensilage tank onboard barge"	11-02-2020	Closed		Both fleets had been moved to Vesterålen from Steigen where they previosly had been used several years, and the ensilage tanks should have been marked while it was still in Steigen. This task has simply been overlooked.	Both tanks are now marked (see seperate sheet for picture evidence)	14-05-2020	Root cause and CA evaluated and approved. Evidence recieved and found satisfactory to close nc.	10-03-2020					
	2.1.1	Minor	Sampling not performed at peak biomass. Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019. As site has been proactive to get survey data in early cycle, and will perform new survey at peak biomass.	A) ASC- and C-Survey report contains Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime ASC- and C-Survey according to ISO 5567-19:2004 og ISO 16665:2014. Modified C-Survey according to NS 9410:2016, but in early production cycle, ref rAkvaplan Niva report part 5.1 and 5.2. (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019. VanVeen grab used according to established method. Done at early cycle (840 ton biomass), as site has been fallowed since 2012. A new C-survey is scheduled at peak biomass. B) Bottom is sand, shell sand and silt/clay C) Option #1 D) Site-specific sampling regime (C-Survey) Modified C-survey according to NS 9410:2016 (Norwegian authortites and legislation requirement) . Done at early cycle (840 ton biomass), as site has been fallowed since 2012. E) Redox Eh values ranging from 202-335 mV F) Option #1 choosen National regulations (NS 9410) G) Submitted to ASC in email dt.02-02-2020	11-02-2020	Open		Since Børøya did not have any previous ASC-C sampling (it was not a requirement last generation), we performad a early cycle sample to be able to show some results during the audit.	Cermaq perform MoM-B and MoM-C/ASC on max.load on every generation since sampling requirements was applied. The sampling at Børøya is planned conducted in august.	14-05-2020	Root cause and CA evaluated and approved, evidence not yet recieved.		24.04.2020	Cermaq request delay of close-out because they need to be sure that they reach peak biomass before doing another sampling, and since reaching peak biomass is out of their control we will not be able to close the NC by original due date 14.05.20. If everything goes as planned they will conduct sampling in august and could have the results within a month, but since biomass is dynamic they can't say for sure that the farm reach peak biomass in august, it may be sooner or later.	To be sure that sampling is done at peak biomass and that we have recieved the report, Cermaq request delay for close-out to 11th February 2020 before next surveliance audit latest.	11-05-2020	12-05-2020

	2.1.2	Minor	Sampling not performed at peak biomass. (>75%) Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019.	A) ASC- and C-Survey report contains Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime ASC- and C-Survey according to ISO 5567-19:2004 og ISO 16665:2014. Modified C-Survey according to NS 9410:2016, but in early production cycle, ref rAkvaplan Niva report part 5.1 and 5.2. (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019. VanVeen grab used according to established method. Done at early cycle (840 ton biomass), as site has been fallowed since 2012. A new C-survey is scheduled at peak biomass. b) Opt #2 Shannon Wierner used. c) Van Veen grab used according to site specific C-Survey (NS9410:2016) Done at early cycle (840 ton biomass), as site has been fallowed since 2012. d) Opt #2 Shannon Wierner used. e) Shannon Wierner ranging from 4,29 - 4,93 for current production cycle. Past production cycle was in 2012. f) Opt #2 Shannon Wierner used. g) Opt #2 Shannon Wierner used. h) C-Survey as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory performed the sampling and calculation of faunal index. i) Submitted to ASC in email dt. 02-02-2020	11-02-2020	Open		Since Børøya did not have any previous ASC-C sampling (it was not a requirement last generation), we performad a early cycle sample to be able to show some results during the audit.	Cermaq perform MoM-B and MoM-C/ASC on max.load on every generation since sampling requirements was applied. The sampling at Børøya is planned conducted in august.	14-05-2020	Root cause and CA evaluated and approved, evidence not yet recieved.		24.04.2020	Cermaq request delay of close-out because they need to be sure that they reach peak biomass before doing another sampling, and since reaching peak biomass is out of their control we will not be able to close the NC by original due date 14.05.20. If everything goes as planned they will conduct sampling in august and could have the results within a month, but since biomass is dynamic they can't say for sure that the farm reach peak biomass in august, it may be sooner or later.	To be sure that sampling is done at peak biomass and that we have recieved the report, Cermaq request delay for close-out to 11th February 2020 before next survelliance audit latest.	11-05-2020	12-05-2020
	2.1.3	Minor	Sampling not performed at peak biomass. (>75%) Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019.	a-b) ASC- and C-Survey report contains Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime ASC- and C-Survey according to ISO 5567-19:2004 og ISO 16665:2014. Modified C-Survey according to NS 9410:2016, but in early production cycle, ref rAkvaplan Niva report part 5.1 and 5.2. (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 61756.01 dt 28.01.2020. Field work 11.12.2019. VanVeen grab used according to established method. Done at early cycle (840 ton biomass), as site has been fallowed since 2012. A new C-survey is scheduled at peak biomass. c) >10 highly abundant taxa found in stations C1 and C5 within AZE. d) B- Survey and C-Survey as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory performed the sampling and calculation of faunal index. e) Submitted to ASC in email dt.02-02-2020	11-02-2020	Open		Since Børøya did not have any previous ASC-C sampling (it was not a requirement last generation), we performad a early cycle sample to be able to show some results during the audit.	Cermaq perform MoM-B and MoM-C/ASC on max.load on every generation since sampling requirements was applied. The sampling at Børøya is planned conducted in august.	14-05-2020	Root cause and CA evaluated and approved, evidence not yet recieved.		24.04.2020	Cermaq request delay of close-out because they need to be sure that they reach peak biomass before doing another sampling, and since reaching peak biomass is out of their control we will not be able to close the NC by original due date 14.05.20. If everything goes as planned they will conduct sampling in august and could have the results within a month, but since biomass is dynamic they can't say for sure that the farm reach peak biomass in august, it may be sooner or later.	To be sure that sampling is done at peak biomass and that we have recieved the report, Cermaq request delay for close-out to January 2020 before next survelliance audit latest.	11-05-2020	12-05-2020
	2.2.1	Minor	On-farm saturation of DO records does not include 6 months of data for the initial audit.	a) Continuos logging (Realfish from Innovasea) of oxygen, temperature and salinity at 2 sampling stations at site: Own sites in proximity to the site is used as reference stations. Data available from stocking of fish at Dypeidet 27.05.2019, to moved to Børøya week 48/2019 to audit date. b) No missed data c) Seen record for the period week 48/2019 (stocking) to week 7/2020 (audit) for the current generation Percent = ≥ 70 % d) No measurements below 70 % dissolved oxygen has been registered/observed. e) Monitoring of oxygen and calibration routines verified on site. Good knowledge, instructions from equipment producer available. f) Submitted to ASC in email dt.02.02-2020	11-02-2020	Closed		Fish has not been in the sea for 6 months yet. Previous generation did not have frequent measurments.	All of Cermaq's sites now have automatically loggers of environmental data (DO, temperature, salinity). By the time this NC is due, we will have 6 months of data logged.	14-05-2020	Root cause and CA evaluated and approved. Evidence recieved and found satisfactory to close nc	11-05-2020					

	2.2.6	Minor	Lack of control of chemicals in storage Landbase Sandset. In general site and landbase has a good system for handling chemicals and waste, and implementation of system is in general good. The non-conformity is considered and isolated incident, and not a systemic NC. Therefor Minor NC is given. Inspected at visit at landbase Sandset by auditor Kar Satir and Lars Erik Flatøy.	a) Procedure "Hygienereglement - Matfisk" ID 127, dt. 3/10-2019 doc 127 rev 6 includes subjects such as clothing, PPE, personal hygiene, hand hygiene, diseas control, comptence requirements. Prosedure "Prosedyre for oppbevaring håndtering av kjemikalier og gasser", ID 473. b) In general site and landbase has a good system for hygiene, handling chemicals and waste, and teh system is well implemented. Landbase Sandset - Storage of chemicals and chemical waste; Chemicals and chemical waste stored together in same area. Personnel unfamiliar with storage area will have challange to separate waste from chemicals to use , and potential for mixing is present. In addition acid tank was not proberly locked.	11-02-2020	Closed		The task of organizing the chemicals had not gotten enough attention, though they were aware of the issue and had put in a request to management on improving the storage.	A more sufficient chemical storage is ordered. As a temporary solution they have seperated the spilloil and clean oil more (and they are marked with content), constructed a cage for securety (see seperate sheet for pictured evidence) and moved all antifreeze liquids to another storage.	14-05-2020	Root cause and CA evaluated and approved. Evidence recieved and found satisfactory to close nc.	10-03-2020					
	2.3.1	Minor	Site has performed fines test of feed according to procedure for feed receive and storag, ID 260, dated 18.11.2019. Test from 15/1-2020 was seen. During audit it was discovered that the file containing the feed fine test results were corrupt, and earlier data could not be displayed. File data can be restored from manual registrations, but site was not able to correct this during audit, and auditor could not verifiy the results of the tests.	a) Percentage of fines according to requirements. Registrations and calculations ranging from 0,1 to 0,3% . Monthly testing according to internal QMS Intelex procedure "Prosedyre förmottak og lagring" ID 260, dated 27.09.17 b) Appropriate testing technology as per ASC. All feed fine tests performed at sites landbase with sieving system and weights. c) Feed fine test log for site Børøya did not contain correct data. NC	11-02-2020	Closed		Unfortunately the updated documents were lost the same week as the audit, so we could not present it at the audit. We are not sure how it happend, most likely it was a mistake that happend while saving them on the shared server. Børøya only have a few fine tests because this generation started in the end of November 2019.	Fortunatly the raw data was saved. New files are now updated and saved. See seperate sheet for updated data.	14-05-2020	Root cause and CA evaluated and approved. Evidence recieved and found satisfactory to close nc	10-03-2020					
	3.4.3	Minor	EUL Børøya 2010 G is not published on Cermaq's dashboard.	a) Specific site records are available in the production and recording system Fishtalk.The escape plan, records for the 2019G stock counts/dates and mortalities checked during the audit. Transparency sheets reviewed before the audit. The escpe information is checked on barenswatch website.	11-02-2020	Closed		This task had not gotten enough attention and was unfortunately overlooked before the audit.	The results were updated during the audit. As a preventive action I am working on improving the tracking system for submittions and deadlines.	14-05-2020	Root cause and CA evaluated and approved. Evidence recieved and found satisfactory to close nc.	10-03-2020					
	6.5.3	Minor	Saftey Inspection performed 20.12.2019 - Corrective actions from action plan related to fire alarm was 1 month overdue from internal closing date, and still open. Safety inspection action plan log in TQM for Safety Inspection Børøya 20.12.2020	a) The procedure for risk assessment No 366 dated 21.08.2019 is implemented. For site Børøya the following risk assessments dated 30.04.2019 has been performed for Health and safety which includes all relevant activities on farm. Site specific Safety inspections are performed twice a year by site manager and safety representative. Report from last inspection at Børøya 20.12.2019 seen. One point is still not recified and closing date overdue. Rest of point ar closed, and closing verified during ASC audit site inspection. NC - Corrective action not closed b) Employees are trained and annual refreshment trainings are organised during risk analysis. Training records are maintained, ref Intelex Kompetansestyring. Last evaluation of the H&S risks and the training for employees took place 30.04.2019, ref 6.5.2 a) The safe job analysis is done prior to all major works on the site with definitions of risks and their management measures. All involve partisipates, including wellboat and service vessel personnel. c) 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.	14-02-2020	Closed		The corrective actions had been overlooked due to the need for prioritizing other tasks.	This is ofcourse not our regular practice and future safety inspections will get more focus. All of the corrective actions from the safety inspection is now closed. See seperate sheet for evidence.	14-05-2020	Root cause and CA evaluated and approved. Evidence recieved and found satisfactory to close nc.	10-03-2020					

	7.1.1	Minor	Requirement in standard says at least annual pro-activ consultation with local community, ref VR 225. With reference to VR 225 stakeholders have the opportunity to request for 1 additional meeting per year, as needed. Last meeting with local community was held October 2017. The NC is stated as minor as logs show that Cermaq has performed meeting in other areas in the region in 2 times in 2019, and that the sites in Vesterålen has had 2 beach cleaning initiatives in 2019.	a) Last meeting for sites in Vesterålen held at landbase Sandset 05.10.2017. MoM from meeting seen. 20 peroson participated including local Mayor, neighbours and representatives from harbour authorities. Agenda: Presentation Cermaq, Sea production, sustainibility and ASC standard, open session with question from stakeholders. Cermaq hold both local and regional stakeholder meetings. Regional stakeholder meeting held 19.02.2019 in Steigen. b) Consultations have included main points required by the standard. c) The participants from local community have participated in consultation. They were invited to contribute to agenda. Questions were answered and clarified during meeting. d) 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) The invitation and minutes of meeting are available. f) Representatives from the local community and organizations are invited to give feedback and participate in audit, ref Form 3, Public disclosure form. No feedback received. No interviewes considered necessary to perform for audit of site.	14-02-2020	Open		This task has not gotten enough attention.	A new meeting for all of the sites in Vesterålen is planned for 29.04.20. As a preventive action we are starting to deliever a "newsletter" with updated information anually for both production regions (Finnmark and Nordland) to our stakeholders.	14-05-2020	Root cause and CA evaluated and approved, evidence not yet recieved.		11-05-2020	The request delay of close-out because Cermaq is not able to arrange stakeholder meetings during the corona outbreak. Cermaw is ready to hold the meeting and will book a date as soon as its safe.	Since the situation still is changing and Cermaw cant be sure when its safe to have stakeholder meetings,also want to request delay for close-out to 11th Feb 2021.	11-05-2020	12-05-2020

ASC Audit Report - Traceablity

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.	N/A
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 Salmon Standard audit. Transports are always identifiable on production unit level (cage). Transport from one seasite to the slaughterhouse at the time, only.	N/A

10.3	The possibility of subcontractors being used to handle, transport, store, or process certified products.	Subcontrators are used.	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.
10.4	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.	n/a

	Owned by client	Subcontracted by client
10.4.a Total number of sites owned/subcontracted by client producing the same species that is included in the scope of certification	45	
Number of sites included in the unit of certification	1	

	Site name(s)	Reason(s)
10.4.b Site(s) within UoC that has product to be excluded from entering the chain of custody		

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 Steigen N-2284, Bogøyveien 153, BOGØY, Norway. ASC-C-01773, Exp. date 2021-08-02 . Ref. to www.asc-aqua.org where updated information can be found.

10.6 **Traceablity 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	The traceability and segregation system is ASC compliant.
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.	The traceability and segregation system is ASC compliant.
10.6.3 The point from which chain of custody is required to begin	From the point where the fish is harvested at the cages. During transport from the cages to the slaughterhouse the fish will be covered by the slaughterhouse CoC certification.
10.6.4 If a sepearate chain of custody certificate is required for the unit of certification	No

For Multi-site clients

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. Most of the principles where full compliance, however, 7 minor NCs were found on indicators 1.1.1, 2.1.1, 2.2.6 2.3.1, 3.4.3, 6.5.3 and 7.1.1. VRs used during audit: - VR nr.39 approved 15.09.2014 by ASC on phosphorus release from smolt producer. - VR nr. 136_Salmon_V1.0_3.1.6, 3.1.7 Monitoring wild salmon by farms -VR nr.179 approved 24.08.2016 by ASC for audit reports in local language. -VR nr.225 approved 23.04.2018 by ASC for indicator 7.1.1, reducing stakeholders / community meetings in-person from bi-annually to once every year. 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)	Site Børøya does not have the capability to meet the ASC salmon standard.

123	In cases where BEIA or 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.	NA

13 Decision

13.1	Has a certificate been issued? (yes/no)	Yes
13.2	The Eligiblity Date (if applicable)	
13,3	Is a separate CoC certificte required for the producer? (yes/no)	No
13.4	If a certificate has been issued this section shall include:	
13.4.1	The date of issue and date of expiry of the certificate.	Issue date: 18-05-2020 Expiry date: 17-05-2023
13.4.2	The scope of the certificate	ASC Atlantic Salmon. Production species: Salmo salar

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 Bureau Veritas Certification Denmark by writing to ASC.Farm@bureauveritas.dk Complaints can be forwarded by using https://www.surveygizmo.com/s3/5268257/Klageformular

14 Surveillence

14.1	Next planned Surveillance	
14.1.1	Planned date	February 2021
14.1.2	Planned site	Børøya
14.2	Next audit type	
14.2.1	Surveillence 1	X
14.2.2	Surveillance 2	
14.2.3	Re-certification	
14.2.4	Other (specify ty	