

Audit Announcement (Form 3)

Please note that all data entered in this audit announcement sheet will be automatically populated to the specific fields in the sheets of the audit report itself. SiteID(s) is/are provided by ASC in the confirmation email of the publication of this Form 3.

1. General, client/CAB information

1.1	Document	Ty	ре
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- 1.2 Document language
- 1.3 Second document language
- 1.4 Unit of certification type
- 1.5 Country where UoC is located
- 1.6 ASC Standard
- 1.7 Standard version
- 1.8 Certification process is subject to CAR version
- 1.9 Name of the Conformity assessment body (CAB)

Client contact person - from the UoC

- 1.15 First name
- 1.16 Surname
- 1.17 Position in the UoC (Job title)
- 1.18 Email address
- 1.19 Phone number
- 1.20 Other means of contact e.g. Skype

Audit announcement
English
N/A
Single Site
Norway
Salmon
1,3
2,2

Ruroau '	Varitas	Cartification	Denmark A/S
Dureau	veritas	ceruncanon	Delilliaik A/3

Ingunn
Johnsen
Sustainability coordinator
ingunn.johnsen@cermaq.com
0047 90 18 66 63
https://www.cermag.com/wps/wcm/connect/cermag-no/home

2. Audit information

2.1 ASC standard principles covered by the audit

	ASC standard principles						
2.1.1	Principle 1	Covered					
2.1.2	Principle 2	Covered					
2.1.3	Principle 3	Covered					
2.1.4	Principle 4	Covered					
2.1.5	Principle 5	Covered					
2.1.6	Principle 6	Covered					
2.1.7	Principle 7	Covered					
2.1.8	Principle 8	Covered					

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2,2 Activities covered under the scope of the certification and under the scope of the audit. Activities in the table apply to final product only.

ation	Activity	Under scope of certification	Under Scope of this audit	Notes
2.2.1	Stocking	Not Covered	Not Covered	
2.2.2	Nursing	Not Covered	Not Covered	
2.2.3	Growing Out	Covered	Covered	
2.2.4	Transferring	Covered	Covered	
2.2.5	Harvest	Covered	Covered	
2.2.6	Vaccination	Covered	Covered	
2.2.7	Fallowing	Covered	Covered	
2.2.8	Transportation	Not Covered	Not Covered	
2.2.9	Storage	Not Covered	Not Covered	
2.2.10	Processing	Not Covered	Not Covered	
2.2.11	Packing	Not Covered	Not Covered	
2.2.12	Other (Please describe)			

- 2,3 Certification cycle
- 2,4 Audit type
- 2,5 Audit number in certification cycle
- 2,6 Will harvesting be witnessed during audit?
- 2.6.1 If harvest is NOT witnessed, please justify:
- 2,7 Audit conducted (On-site/Remote):

2
Recertification audit
1
Yes
N/A
On-site

Please indicate the hours assigned to the different audit activities in the table below, separated by the hours spend on the activities by the environmental- and social auditor:

2,8	2,9	2,10
Time assigned to audit activities	Social Auditor	Environmental auditor
Off-site activties	4	4
On-site activities	4	4
Total man days	1	1

Audit team and other involved p	ersons		
2,11	2,12	2,13	2,14
Surname	First name	Role	Expertise needed for the audit (required for technical experts only)
Flatøy	Lars Erik	Audit team leader	
Flatøy	Lars Erik	Technical Auditor	
Flatøy	Lars Erik	Social Auditor	

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3. Site information

3	2	3.3	3.4	3.6	3.13	3.14	3.15	3.16	3.17	3.18
S	te name	Ownership	Primary culture species	Cycle duration	Latitude (N, S) (00.000000)*	Longitude (E,W) (00.000000)*	Production system*	Number of production units	Start date of audit	End date of audit
C	ermaq Norway AS, location Langøyhovden 11238	Owned	Atlantic salmon (Salmo salar)	Long-cycle species (>6 months)	68,803902		Cages - circular plastic	8	21. oktober 2020	22. oktober 2020

4. Stakeholder engagement

4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.10
Name of Company/ Organisation if applicable	Contact person - First	Contact person - Surname	Country where stakeholder is based		Stakeholder type	If stakeholder type	Contact date	Did the stakeholder submit	Stakeholder comments
	name			stakeholder		"other" was selected	stakeholder	comments?	relate to what ASC
						what type?			standard indicator
									number?
WWF-Norge	N/A	N/A	Norway	N/A	NGO - Environmental	N/A			
					area				
Norske Lakseelver	N/A	N/A	Norway	N/A	NGO - Environmental	N/A			
					area				
Fellesforbundet	N/A	N/A		N/A	Labour unions	N/A			
Kystverket	N/A	N/A		N/A	Government	N/A			
Naturvernforbundet	N/A	N/A	Norway	N/A	NGO - Environmental	N/A			
					area				
	N/A	N/A	Norway	N/A	NGO - Environmental	N/A			
Norges Kystfiskarlag					area				
Mattilsynet	N/A	N/A	Norway	N/A	Government	N/A			
	N/A	N/A	Norway	N/A	NGO - Environmental	N/A			
Norsk Ornitologisk Forening					area				
Fiskeridirektoratet	N/A	N/A	Norway	N/A	Government	N/A			
	N/A	N/A	Norway	N/A	NGO - Environmental	N/A			
Norges Jeger- og Fiskerforbund					area				
	N/A	N/A	Norway	N/A	NGO - Environmental	N/A			
Norges Miljøvernforbund					area				
	N/A	N/A	Norway	N/A	NGO - Environmental	N/A			
Norges Fiskarlag					area				
Miljødirektoratet	N/A	N/A	Norway	N/A	Government	N/A			
Nordland Fylkeskommune	N/A	N/A	Norway	N/A	Government	N/A			
Sametinget	N/A	N/A	·	N/A	NGO - social area	N/A			
Steigen kommune	N/A	N/A	Norway	N/A	Government	N/A			
Fylkesmannen i Nordland	N/A	N/A	Norway	N/A	Government	N/A			
Øksnes Kommune	N/A	N/A		N/A	Government	N/A			
Nordland Fylkes Fiskarlag	N/A	N/A	Norway	N/A	Communities	N/A			
Øksnes Fiskarlag	N/A	N/A		N/A	Communities	N/A			
Bø kystfiskarlag	N/A	N/A	Norway	N/A	Communities	N/A			
, ,									

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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 <u>surveillance</u> 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]	FINAL Audit Report ASC Salmon Cermaq Norway Langøyhovden 22.10.2020
1.3 CAB name	Bureau Veritas Certification Denmark A/S
1.4 Name of Lead Auditor	Lars Erik Flatøy
1.5 Names and positions of report	Report Author: Lars Erik Flatøy, ASC Lead Auditor
authors and reviewers	Reviewer: Shahram Zadeh
1.6 Client's Contact person: Name and Title	Ingunn Johnsen, Sustainability coordinator
1.7 Date	Date of audit 21-22.2020. Date of report writing: 27.10.2020
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 C-Survey: Surveys of benthic environment at or near farm, according to NS 9410 (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

MoM - Minutes of Meeting

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.

A brief description of the scope of 4.1 being audited)

The UoC is is a fish farm farming atlantic salmon, Salmo salar. It consists of 8 x 160 m cages and a feed the audit (including activities of the UoC barge containing the feeding system and feed storage. The barge is not manned other than during receive of feed from vessles, refill of feed silos and maintenance work. Feeding 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 recertification audit.



4.2	A brief description of the
	operations of the unit of
	certification

The unit of certification is the entire Langøyhovden seafarm, site number 11238. Langøyhovden is an ongrowing farm for Atlantic Salmon from smolt and until the salmon is ready for slaughtering. County. The production system is based on 8 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)

Recertification

4.4.1 Number of sites included in the unit of certification
Initial audit - mm/yyyy
Surveillance audit 1 - mm/ yyyy
Surveillance audit 2 - mm/ yyyy

Owned by client Subcontracted by client

1	nov-17	
1	mar-19	
1	feb-20	
1	nov-20	

Recertification audit - mm/ yyyy

4.5 A summary of the major findings

0 major findings. 4 minor NCs were raised against indicator 6.5.2, 6.5.3 and 6.7.1. For indicator 6.5.3 there were raised 2 different NC's to make it easier to identify, as there were 2 different root causes. One related to lack of control of work equipment, the other related to lack of identification of emergency exits.

4.6 The Audit determination

The audit determination will be made by the outcome of the audit, report, technical file review and public feedback.

Auditor recommends a certification based on the result of the recertification audit and a certificate has been issued.



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

Information on the Public Disclosure Form All information is updated according to Public disclosure Form 3. (Form 3) except 1.2-1.3. All information updated as necessary to reflect the audit as conducted. 6.2 A description of the unit of certification (for intial audit) / changes, if any (for surveillance and recertification audits)

Langøyhovden is a conventional floating cage salmon farm. The 8 production cages are circular floating plastic rings with the dimension 160 m circumference, with pointed nets. Farm has a 200 ton concrete feed barge "Pondus", 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/

- Other certifications currently held by the 6.3 unit of certification
- Other certification(s) obtained by the UoC Global GAP GGN 4052852632539 6.4 before this audit



6.5	Estimated annual production volumes of	2019G stocked at Langøyhovden 22-31.08.2019: Biomass at time of audit: 2484208 kg (686332 fish,
	the unit of certification of the <u>current</u> year	average weight 3,619 kg).
		Production volume current year, 2020, 1/1 - 22/10: 3 034 979 kg
		, , , , , ,
6.6	Actual annual production volumes of the	2019: 544 647 kg
	unit of certification of the previous year	
	(mandatory for surveillance and recertification	
	audits)	
	duants	
6.7	Production system(s) employed within the	Floating net-pens/cages
	unit of certification (select one or more in the	
	list)	
	,	
6.8	Number of employees working at the unit	4 permanent employees plus site manager and land base manager. They are stationed at
	of certification (see notes in comment to this	Langøyhovden, but assists neighbour frams Børøya and Dypeidet.
	cell)	
	,	
6.9	Size, and/or number of ponds, pens (if	8 cages with the dimension 160 m circumference. 4 in use at time of audit
	multi site, per site)	
	,	
7 Scope		
7.1	The Standard(s) against which the audit	ASC Salmon Standard, version 1.3 July 2019
	was conducted, including version number	
	, 0	
7.2	The species produced at the applicant farm	Atlantic Salmon (Salmo salar)
	(in English and Latin names)	



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.

A description of the scope of the audit is to verify the salmon farm site Langøyhovdens compliance against the ASC Salmon including a description of whether the unit of certification covers all production or harvest areas (i.e. ponds) managed by the farm.

Scope of audit is to verify the salmon farm site Langøyhovdens compliance against the ASC Salmon Standard – version 1.3 - July 2019. The UoC audited includes the complete production system of Langøyhovden farm, consisting of 8 x 160 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.

The names and addresses of any storage, processing, or distribution sites included in the operation (including subcontracted plant CoC. There is no other entities handling certified product before start of CoC.



7.5 Description of the receiving water body(ies).

The farm is located in municipality of Øksnes, in Nordland country. GIS posistion: 14.86732488027372, 68.8028726921838

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

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: Lars Erik Flatøy Audit: 21-22 October 2020 Reporting: 23.10.2020

Reviewer: Shahram Zadeh, Date of review: 30/11/2020, Date of approval: 03/12/2020

Certificate desicion: 04-01-2021 - Shahram Zadeh



	5 1 A 11 /16 11 11 X			
8.2	Previous Audits (if applicable):		Standard	
				Closing deadline - status - closing date of each NC
		NC reference	e clause	closing deadline - status - closing date of each ive
		number	reference	
	8.2.1 Initial audit - mm/yyyy	October	2.1.1, 2.1.2,	15 Minor Non-Conformities
		2017	2.1.3, 2.2.1,	
			2.2.2, 2.3.1,	
			3.1.4, 4.7.1,	
			4.7.3, 5.1.7,	
			6.2.2, 6.5.1,	
			6.5.2, 6.5.3,	
			6.5.4	
		March 2019	2.1.2, 2.1,3,	8 minor non-conformities - closed
			2.2.1, 3.4.3,	
			4.3.2, 4.3.5,	
	Surveillance audit 1 - mm/ yyyy		4.4.2, 5.1.5	
	Surveillance audit 2 - mm/ yyyy	2020-SA2-1	1,1,1	Minor NC - closed 12.03.2020
	our remarice dudic 2 mm, 1111		2,1,3	Minor NC - closed 12.03.2020 - New C-Survey to be performed in
		2020 3/12 2	2,1,3	November 2020
		2020-SA2-3	2,2,6	Minor NC - closed 12.03.2020
			6,5,3	Minor NC - closed 12.03.2020 Minor NC - closed 12.03.2020
				Minor NC - closed 12.03.2020 Minor NC - closed 12.03.2020
		2020-SA2-5	7,1,1	Williof NC - Closed 12.03.2020
	Description of the second			
	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	October 2020	Bureau Veritas Certification, Fredericia, Denmark
8.3.2	Onsite audits	21-22,10,2020	Site Langøyhovden and landbase Sandset, Øksnes, Norway
8.3.3	Stakeholder interviews and Community meetings	21-22,10,2020	No stakeholder attended the audit
8.3.4	Draft report sent to client	03-12-2020	Bureau Veritas Certification, Fredericia, Denmark
8.3.5	Draft report sent to ASC	03-12-2020	Bureau Veritas Certification, Fredericia, Denmark
8.3.6	Final report sent to Client and ASC	04-01-2021	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.

Ingunn S. Johnsen, Sustainability coordinator Elisabeth Faureng, Fish Health Veterinary Maren Opdahl Thun, HR Coordinator Sten-Viggo Hansen, Site manager 4 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)

(if permission given to make name	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

			Corresponds to Salmon standard v. 1.3					
	PRINCIPLE 1: COMPLY WITH ALL APPLICABLE NATIONAL LAWS AND LOCAL REGULATIONS							
1.1.1	Indicator Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use Requirement: Yes Applicability: All	Compliance Criteria (Use as guidance for audit only) 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).	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. 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 license salmonids issued by Nordland Fylkeskommune 23.04.2019, ref 18/6746-16 for License 11238 Langøyhovden, 3120 MTB. Permits included in site (ref www.barentswatch.com and https://register.fiskeridir.no/akvareg): N-HM-07, N-SG-07, N-SG-16, N-SG-27, N-SG-28, N-SG-37, N-SG-38, N-SG-39. Approved operating plan for 2019-2020 from Fisheries Directorate dated 26.02.2019 with reference number of 18/15753. (Børøya, Dypeidet, Gisløya S and Langøyhovden) Discharge permit from Fylkesmannen i Nordland, ref 2006/4762 date 30.05.2011 Discharge permit for 3120 MTB. Site Technical certificate: Certificate APN-394 R-2 site 11238 Langøyhovden issued 23.08.2019, 5 years validity from 23.08.2020. Expiry 23.08.2024. Issued by Akvaplan Niva according to NYTEK-regulation	Evaluation (Per indicator, select one category in the drop-down menu) Compliant	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		
1.1.2	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.	a) Authorized auditor report/statement for organisation number 980211282, dt.07.09.2020 by Deloitte. For accounting year ending 31.03.2020 b) Lovdata access to updated versions in quality system Intelex. Automatic notification to organization if changes in regulations that affect organization. c) Aquaculture license salmonids issued by Nordland Fylkeskommune 23.04.2019, ref 18/6746-16 for Lisence11238 Langøyhovden, 3120 MTB. Approved operating plan for 2019-2020 from Fisheries Directorate dated 26.02.2019 with reference number of 18/15753. (Børøya, Dypeidet, Gisløya S and Langøyhovden) Discharge permit from Fylkesmannen i Nordland, ref 2006/4762 date 30.05.2011 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	
		a. Obtain permits for water quality impacts where applicable.	a) Discharge permit from Fylkesmannen i Nordland, ref 2006/4762 date 30.05.2011 Discharge permit for3120 MTB. B) As described in above permits.		
	Requirement: Yes	b. Compile list of and comply with all discharge laws or regulations.	B-Survey and C-survey according to Norwegian legislation and NS9410:2016 performed by Akvaplan Niva, an accredited company c) Current biomass reported to authorities/ 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"	Compliant	
	Applicability: All	c. Maintain records of monitoring and compliance with discharge laws and regulations as required.	doc 405, 19/7-2019 - instruction on how to perform compliance assesments including discharge requirements, frequency and responsible. Seen last assessment dated 20.12.2019, including discharge laws.		

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,

	Note: Under Indicator 2.1.1, farms can choose to measure redox pot threshold values.	cential (Option #1) or sulphide concentration (Option #2). Farms do not have to demonstrate that they meet both		
	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.			
	Tevidence to the CAB and request an exemption from 2.1.1c-t. 2.1.2	NOTE: C-Survey report for current generation 2019G, will be performed when the biomass reaches the 75% peak biomass window. The C-Survey is scheduled in November 2020, by Akvaplan Niva. The principles 2.1.1, 2.1.2, and 2.1.3 is unchanged from Surveillance 2 audit performed in February 2020, as the same data and C-survey report applies for this Recertification audit, performed October 2020.		
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	[C. IIIIOTHI THE CAB WHETHER THE FARM CHOSE OPTION #1 OF OPTION #2 TO	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. (Norwegian authorities and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 60613.03 dt 21.12.2018. Field work 27.08.2018. VanVeen grab used according to established method. Done at peak biomass		
Requirement: Redox potential > 0 mV or Sulphide ≤ 1,500 μΜοΙ/L	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).	B) Bottom is rock, hard bottom and some sand C) Option #1	Compliant	275-349
Applicability: All farms except as noted in [1]	e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing method.	D) Site-specific sampling regime (C-survey ASC adapted) C-survey according to NS 9410:2016 (Norwegian authorities and legislation requirement). Done at peak biomass. E) Redox Eh values ranging from 275-349 mV		
	f. For option #2, measure and record sulphide concentration (μΜ) using an appropriate, nationally or internationally recognized	F) Option #1 chosen National regulations (NS 9410) G) Submitted to ASC in email dt.02-02-2020		
	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.			
	[2] Farm sites can choose	whether to use redox or sulphide. Farms do not have to demonstrate that they meet both.		I

		Notes: - Under Indicator 2.1.2, farms can choose one of four measurements (Option #3); or ITI (Option #4). Farms do not have to demonstrate the lif a farm is exempt due to hard bottom benthos (see 2.1.1b), then				
		a. Prepare a map showing the AZE (30 m or site specific) and sediment collections stations (see 2.1.1).				
		b. Inform the CAB whether the farm chose option #1, #2, #3, or #4 to demonstrate compliance with the requirement.	NOTE: C-Survey report for current generation 2019G, will be performed when the biomass reaches the 75% peak biomass window. The C-Survey is scheduled in November 2020, by Akvaplan Niva. The principles 2.1.1, 2.1.2, and			
		c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1).	2.1.3, is unchanged from Surveillance 2 audit performed in February 2020, as the same data and C-survey report applies for this Recertification audit, performed October 2020. A) ASC- and C-Survey report contains Olex map and GPS coordinates with ASC sampling points. Site-specific sampling	Compliant		
	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	d. For option #1, measure, calculate and record AZTI Marine Biotic	regime ASC- and C-Survey according to ISO 5567-19:2004 og ISO 16665:2014. (Norwegian authorities and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 60613.03 dt 21.12.2018. Field work 27.08.2018. VanVeen grab used according to established method. Done at peak biomass b) Opt #2 Shannon Wierner used. c) Van Veen grab used according to site specific-survey (NS9410)			
2.1.2		e. For option #2, measure, calculate and record Shannon-Wiener Index score of sediment samples using the required method.				Shannon Wiener 3,32-3,89
	Applicability: All farms except as noted in [1]	f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment samples using the required method.	e) Shannon Wierner ranging from 1,18 on station C1, inside AE,3,89 on C4 outside AZE, and 3,32 for reference station for past production cycle			
		g. For option #4, measure, calculate and record Infaunal Trophic Index (ITI) score of sediment samples using the required method.	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			
		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.	performed the sampling and calculation of faunal index. i) Submitted to ASC in email dt. 02-02-2020			
		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 invert	ebrate taxa is slightly outside the range associated with the type-specific conditions. Most of the sensitive taxa of the type	e-specific com	munities 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.	NOTE: C-Survey report for current generation 2019G, will be performed when the biomass reaches the 75% peak biomass window. The C-Survey is scheduled in November 2020, by Akvaplan Niva. The principles 2.1.1, 2.1.2, and 2.1.3 is unchanged from Surveillance 2 audit performed in February 2020, as the same data and C-survey report applies for this Recertification audit, performed October 2020. Minor NC for principle 2.1.3 raised during surveillance 2 audit was closed 12.03.2020, and result will be verified when new C-survey report is available from C-survey in November 2020 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. (Norwegian authorities and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 60613.03 dt 21.12.2018. Field work 27.08.2018. VanVeen grab used according to established method. Done at peak biomass c) <2 (1) highly abundant taxa found in stations C1 within AZE. d) B/C-Survey as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory performed the sampling and calculation of faunal index.	Compliant	<2 (1) highly abundant taxa found in stations C1 within AZE Akvaplan Niva, report nr. 60613.03 dt 21.12.2018. CLOSED 12.03.2020	<2 (1)
Footnote		[6] Highly abundant: Greater than 100 o	rganisms per square meter (or equally high to reference site(s) if natural abundance is lower than this level).			
	Indicator: Definition of a site-specific AZE based	a. Undertake an analysis to determine the site-specific AZE and depositional pattern.	a) Site-specific sampling regime (C-survey - ASC adapted/NS9410. Modified C-survey according to NS9410 (Norwegian authorities and legislation requirement) survey developed and performed by Akvaplan Niva. Survey performed			
2.1.4	Requirement: Yes	b. Maintain records to show how the analysis (in 2.1.4a) is robust and credible modelling system and credible based on modeling using a multi-parameter approach [7]. 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]. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass. Capacitation of AZE. Survey performed at 75-90% of peak biomass.	of AZE. Survey performed at 75-90% of peak biomass. b-c) Robustness and credibility of analysis and modeling has verified during audit and reviewing of Akvaplan Niva	Compliant		
	Applicability: All farms except as noted in [1]					
Footnote	[7] Robust and credible: The SEI	PA AUTODEPOMOD modeling system is considered to be an example	e of a credible and robust system. The model must include a multi-parameter approach. Monitoring must be used to groun	nd-truth the AZ	E proposed through the model.	

			rion 2.2 Water quality in and near the site of operation [8]			
F	T .	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[8] See A	Appendix VI for transparency requirements for 2.2.1, 2.2.2, 2.2.3 and 2.2.5.		1	
Indicator: We	follows: - measurements may be taken with a handheld oxygen meter or equivalent chequipment is calibrated according to manufacturer's recommendations; - measurements are taken at least twice daily: once in the morning (6 -9 am) a salinity and temperature must also be measured when DO is sampled; - sampling should be done at 5 meters depth in water conditions that would be each week, all DO measurements are used in the calculation of a weekly average lift monitoring deviates from prescribed sampling methodology, the farm shall pland well-justified situations, farms may request that the CAB approve reduction that a reference site is and is not influenced by nutrient inputs from anthropogenic causes included the auditor shall fully document in the audit report how the farm has demonst Note 1: Percent saturation is the amount of oxygen dissolved in the water sandicator: Weekly average percent saturation		llow for sampling the average weekly percent saturation of dissolved oxygen (DO). Key points of the method are as uivalent chemical method; tions; (6 -9 am) and once in the afternoon (3-6 pm) as appropriate for the location and season; led; at would be experienced by fish (e.g. at the downstream edge of a net pen array): reekly average percent saturation. The arm shall provide the auditor with a written justification (e.g. when samples are missed due to bad weather). In limited we reduction of DO monitoring frequency to one sample per day. Opercent weekly average saturation requirement, the farm must demonstrate the consistency of percent saturation from the edge of the net pen array, in a location that is understood to follow similar patterns in upwelling to the farm ses including aquaculture, agricultural runoff or nutrient releases from coastal communities. For any such exceptions,			
	 [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] 	In Dravida a writtan justification for any missad samples or	a) Continues logging (Real fish 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.			
		c. Calculate weekly average percent saturation based on data.	 b) No missed data. Records available for past and current production cycle. c) Seen record for last generation and current generation from stocking to date of site visit. Percent = ≥ 70 % 	Compliant		> 70%
		d. If any weekly average DO values are < 70%, or approaching that level, monitor and record DO at a reference site and compare to onfarm levels (see Instructions).	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. Online reading on 5 meters 21.10.2020 witnessed by auditor: O2: 84,2, temp 9,2C, Salinity 32,5			
	f. Su	e. Arrange for auditor to witness DO monitoring and calibration while on site.	f) Submitted to ASC in email dt.20.10-2020			
		f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.				
Footnote			gen dissolved in the water sample compared to the maximum amount that could be present at the same temperature an	nd salinity.		
Footnote			eraged weekly from two daily measurements (proposed at 6 am and 3 pm).			
Footnote		[11] An exception to this standard sl	hall be made for farms that can demonstrate consistency with a reference site in the same water body.			

2.2.2	samples from 2.2.1 that fall under 2 mg/L DO Requirement: 5% Applicability: All		a) All above limits. b) Submitted to ASC in email dt.20.10-2020	Compliant	Above 2 mg/l
2.2.3	Indicator: For jurisdictions that have national or regional coastal water quality targets [12], demonstration through third-party analysis that the farm is in an area recently [13] classified as having "good" or "very good" water quality [14] Requirement: Yes [15] Applicability: All farms except as noted in [15]	b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification.	A) Systems are applicable according to EU Water Directive 2000 which includes water quality objectives for area Børrøyfjorden B) Verification during audit: Norges vassdrag og energidirektorat (NVE) www.vann-nett.no/portal: Site Langøyhovden is located in waterbody Børrøyfjorden. Status: Ecological and chemical situation: Good. Quality targets met. C) Last registration ref B) for waterbody Børrøyfjorden, ref Norges vassdrag og energidirektorat (NVE) www.vann-nett.no/portal: 16th January 2020	Compliant	
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 W	/ater Framework Directive. Equivalent classification from other water quality monitoring systems in other jurisdictions are	e acceptable.	
Footnote	[15] Closed production syste	ems 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) a	re exempt fror	n standards 2.2.3 and 2.2.4.
	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16]	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.			
2.2.4	levels on farm and at a reference site, following methodology in Appendix I-5 Requirement: Consistency with reference site	els on farm and at a reference site, following ethodology in Appendix I-5 b. Calibrate all equipment according to the manufacturer's recommendations. a-c) N/A	a-c) N/A	N/A	
	Applicability: All farms except as noted in [16]	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		,

	Indicator: Demonstration of calculation of biochemical oxygen demand (BOD [17]) of the farm on a production cycle basis	nemical oxygen demand (BOD [17]) of the and the farm can show that BOD monitoring results do not deviate significantly from calculated annual BOD load.				
2.2.5	Requirement: Yes Applicability: All	a. Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box. a) BOD calculation 2019G. Not harvested, produced biomass 20.10.20 [mt]:	((total N in feed 245,45 – total N in fish 103,65)*4.57) + ((total C in feed 2213,86 – total C in fish 1727,5)*2.67)= 1946,62 2017G: BOD [mT O2]: 1773,89 - sent to ASC for past generation	Compliant		1946,62 mT O2
Footnote		C. 2009. Estimating mechanical aeration requirement in shrimp pone	y deduct N or C that is captured, filtered or absorbed through approaches such as IMTA or through direct collection of nut ds from the oxygen demand of feed. In: Proceedings of the World Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruon methodology available at http://web.uvic.ca/~gapi/explore-gapi/bod.html.			
	Indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicals,	a. Document control systems in good culture and hygene that includes all appropriate elements.	a) Distributed in Intelex: Procedure "Hygienereglement - Matfisk" ID 127, dt. 3/10-2019 doc 127 rev 6 includes subjects such as clothing, PPE, personal hygiene, hand hygiene, disease control, competence requirements. Introduction and training of personnel are performed by checklist "Skjema for opplæring hygiene matfisk og settefisk" Dok 130, 15/1-2020 rev 3 which is signed by employer and employee. Procedure "Prosedyre for oppbevaring håndtering av kjemikalier og gasser", ID 473. covers handling of chemicals.			
2.2.6	including veterinary drugs, thereby ensuring that adverse impacts on environmental quality are minimised.	b. Apply the systems ensuring that staff are aware, qualified and trained to proberly implement them.	b) In general site and landbase has a good system for hygiene, handling chemicals and waste. It was verified during audit that corrective actions from minor NC raised during audit in February 2020 was implemented. Verification of training through interviews with site manager and employees and review of training data and logs was presented, including introduction and training related to hygiene, handling of chemicals and environmental quality. "Hygienereglement" is displayed on wall in barge and landbase. Cleaning plan for barge, vessels, land base and farm is displayed on site and distributed in web based system. Work orders are generated by the system, with description of task, responsibility, intervals and time frames. Digital checklists are filled directly into system	Compliant		

Criterion 2.3 Nutrient release from production					
	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
	Note: The methodology give		ameter of 3 mm	or more.	
		A) Testing is performed on land base according to Procedure for formottak, lagring og kontroll av for Dok 260, date 25/3			
following methodology in Appendix I-2)	b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations.	2020, rev 10, in accordance with Appendix I-2 B) Site uses sieve, but do not have a sieving machine. They have a weight which is calibrated frequently by calibration weights.	Compliant		<1%
	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.	C) Seen monthly log from past generation 17G and current generation 19G. 18 tests performed since audit in February. Non above 1 %			
[18] Fines: Dust and fragments in the feed. Partic	cles that separate from feed with a diameter of 5 mm or less when sign	eved through a 1 mm sieve, or particles that separate from feed with a diameter greater than 5 mm when sieved through bags after they are delivered to farm).	n a 2.36 mm siev	ve. To be measured at farm gat	e (e.g., from feed
[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.					
		· · · · · · · · · · · · · · · · · · ·			
	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
	Note: If a farm has previously undertaken an independent assessment	ent of biodiversity impact (e.g. as part of the regulatory permitting process), the farm may use such documents as eviden components in Appendix I-3 are explicitly covered.	ce to demonstra	ate compliance with Indicator 2	2.4.1 as long as all
Indicator: Evidence of an assessment of the	nearby ecosystems. The assessment must address all components	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)			
nearby ecosystems that contains at a minimum the components outlined in Appendix I-3		Cermaq Group AS annual corporate level environmental and sustainability report 2017. Internal impacts consequence assement performed using data from research 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.	Compliant		
	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 biodiversity risks from site. Last assessment dated 07.05.2020 B-Surveys performed: July 2016 (ref APN-8386.01), July 2017 (ref APN-8986.01), September 2018 (ref APN-60613.01).C-survey performed: 2016 (ref APN-8345.01) 2017 (APN-8987.01), 2018 (ref. APN60613.03)			
	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] [18] Fines: Dust and fragments in the feed. Particle [19] To be measured every quarter or every three [19] To be measured every quarter or every three 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	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] 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. [18] Fines: Dust and fragments in the feed. Particles that separate from feed with a diameter of 5 mm or less when si audits, farms must have test results from the last 3 months. [19] To be measured every quarter or every three months. Samples that are measured shall be chosen randomly. Fee collection and responsible disposal of > 75% of so the collection and responsible disposal of > 75% of so the farm indicator: Evidence of an assessment of the farm's potential impact on biodiversity and nearby ecosystems that contains at a minimum the components outlined in Appendix I-3 Requirement: Yes Applicability: All a. Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document attoinable behind not testing on site. b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. Conduct test according to detailed methodology in Appendix I-2 and record results from the last 3 months. Criteria (Compliance Criteria (Required Client Actions): Note: If a farm has previously undertaken an independent assessment of the farm's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3. 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	Notice the methodology gives in Appendix 1.2 is used to determine the face (dust and small fingments) in flinished product of fish fixed which has a distance of the product of fish fixed which has a distance of the product of fish fixed which has a distance of the product of fish fixed which has a distance of the product of the produc	Note: The methodology given in Apparedix 1-2 is used to desermine the files (dust and small fragments) in finished product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of filin head which has a dimenser of 3 mm state of the product of t	Note The mediodity given in Approxis 2-b used to determine the fires (das and small fragments) in flished product of file feed which the a disaster of 3 mm or more a between soft description of the state of the s

	Indicator: Allowance for the farm to be sited in a protected area [20] or High Conservation Value Areas [21] (HCVAs) Requirement: None [22]	for sustainable resource management). Exception #2: For HCVAs if the farm can demonstrate that its enviror be placed on the farm to demonstrate that it is not negatively impact placed on the farm to demonstrate that it is not negatively impact. Secreption #3: For farms located in a protected area if it was designate impacts are compatible with the conservation objectives of the proteormation/designation of the protected area. The burden of proof w protected. Definitions Protected area: "A clearly defined geographical space, recognized, diassociated ecosystem services and cultural values." High Conservation Value Areas (HCVA): Natural habitats where consimulti-stakeholder approach that provides a systematic basis for identic ensure that these high conservation values are maintained or enhalone. 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) 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	on for the Conservation of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes or immental impacts are compatible with the conservation objectives of the HCVA designation. The burden of proof would ting the core reason an area has been identified as a HCVA. Ited as such after the farm was already in operation and provided the farm can demonstrate that its environmental exceted area and it is in compliance with any relevant conditions or regulations placed on the farm as a result of the ould be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been edicated and managed through legal or other effective means, to achieve the long-term conservation of nature with ervation values are considered to be of outstanding significance or critical importance. HCVA are designated through a titifying critical conservation values—both social and environmental—and for planning ecosystem management in order nanced a) GIS data provided by farm on Map and .json file according to requirement in standard. GIS position Langøyhovden 14.86732488027372, 68.8028726921838 plotted in to gis.asc-aqua.org/arcgis_app/. Position were in compliance with position visited by auditors, and as described in B- and C-survey reports issued by Akvaplan Niva in 2019. Site is not in or close to a HCVA according to ASC database. This was cross checked against 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 2019 also refers to policy and approach for HCVA.	Compliant		0	
Footnote	[20] Protected area: "A clearly defined geograp		er effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values of the long-term conservation of nature with associated ecosystem services and cultural values of the long-term conservation of nature with associated ecosystem services and cultural values of the long-term conservation of nature with associated ecosystem services and cultural values of the long-term conservation of nature with associated ecosystem services and cultural values of the long-term conservation of nature with associated ecosystem services and cultural values of the long-term conservation of nature with associated ecosystem services and cultural values of the long-term conservation of nature with associated ecosystem services and cultural values of the long-term conservation of nature with associated ecosystem services and cultural values of the long-term conservation of the long-term conser	es." Source: Du	udley, N. (Editor) (2008), Guideli	nes for Applying	
Footnote	[21] High Conservation Value Areas (HCVA): Nat	ural habitats where conservation values are considered to be of outst	tanding significance or critical importance. HCVA are designated through a multi-stakeholder approach that provides a synagement in order to ensure that these high conservation values are maintained or enhanced (http://www.hcvnetwork.c		for identifying critical conservat	ion values—both	
Footnote	 For HCVAs if the farm can demonstrate that its For farms located in a protected area if it was 	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/). [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.					

		Crite	erion 2.5 Interaction with wildlife, including predators [23]			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[23] S	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	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.	a) Bird nets 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 Dashboard 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 interviews during audit. c) Records controlled on site (predator lists, TQM and Cermaq Dashboard) Verified compliance in interviews 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 inte	entionally 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	lethal action 2. Approval was given from a senior manager above the farm manager 3. Explicit permission was granted to take lethal	2) approval from a senior manager above the farm manager of the	No lethal actions taken at farm. Verified in employee interviews and mortality records for farm. Cermaq Procedure "Prosedyre for samspill med dyr og fugler, doc 395, dated 30.10.2019 is in compliance with principle requirements, and includes description of how to handle a lethal action.	Compliant	
Factoria		[37] Lothal actic	any Action taken to deliberately kill an animal including marine mammals and hirds		
Footnote	[20] Evention t		on: Action taken to deliberately kill an animal, including marine mammals and birds. afety is endangered. Should this be required, post-incident approval from a senior manager should be made and relevant	authorities mu	st he informed
Foothote	[28] Exception (o triese conditions may be made for a rare situation where numan sa	arety is endangered. Should this be required, post-incident approval from a senior manager should be made and relevant	authorities mu	st be illioithed.
		lude all lethal actions as well as entanglements or other accidental m Total number of lethal Incidents = sum of	dicators 2.5.4, 2.5.5, and 2.5.6 - Clarification about the ASC Definition of "Lethal Incident" ortalities of non-salmonids [footnote 29]. For the purpose of assisting farms and auditors with understanding how to eval clarified this definition further: all non-salmonid deaths arising from all lethal actions taken by the farm during a given time period For example, if a farm has taken one (1) lethal action in past last two years and that single lethal action resulted in killing	·	
			two year period.		
		The term "non-salmonid" was intended to cover any predator	ry animals which are likely to try to feed upon farmed salmon. In practice these animals will usually be seals or birds.		
	Indicator: Evidence that information about any	a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.			
	lethal incidents [30] on the farm has been made easily publicly available [29]	a. For all lethal actions (see 2.3.3), keep records showing that the	a, b, c) List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/; Showing 2 lethal incidents in 2020. Also communicated to ASC.	Compliant	
		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 "easi	ily publicly available." Shall be made available within 30 days of the incident and see Appendix VI for transparency require	ements.	

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	incidents involving marine mammals during the previous two year period.	A) Ref 2.5.2 - 2 lethal incidents 2018-2020. No lethal actions B) 2 lethal incidents. 0 marine mammals C) Data submitted to ASC by email 20.10.2020	Compliant	2
Footnote			es all lethal actions as well as entanglements or other accidental mortalities of non-salmonids.		
Footnote		[31] Standard 2.5.6 applicable to incidents re	lated to non-endangered and non-red-listed species. This standard complements, and does not contradict, 2.5.3.		
2.5.6	incident(s) has been undertaken and demonstration of concrete steps taken by the farm to reduce the risk of future incidences	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 Langøyhovden "Ytre miljø", dt.07.05.2020 include predator control, lethal incidents and wildlife protection A) Site specific risk assessment and action plans are implemented which includes lethal incidents. Last update on site Langøyhovden "Ytre miljø", dt.07.05.2020. by site manager and quality coordinator. Cermaq report "Konsekvensutredning ytre miljø— Vesterålen" dated 02.08.2019 includes risk assessment plan for lethal	Compliant	
	Requirement: Yes Applicability: All	b. Provide documentary evidence that the farm implements those steps identified in 2.5.6a to reduce the risk of future lethal incidents.	incidents, including targets and action plan. B) Action plan in site risk assessment includes lethal incidents. Plan reviewed during audit.		

			ROTECT THE HEALTH AND GENETIC INTEGRITY OF WILD POPULATIONS			
		Criterior Compliance Criteria (Required Client Actions):	a 3.1 Introduced or amplified parasites and pathogens [34, 35] Auditor Evaluation (Required CAB Actions):			
Footnote			ray contain pathogens into the natural (freshwater or marine) environment are exempt from the standards under Criteric	on 3.1.		
Footnote		[33] See Ap	pendix 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]	- 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,	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, sub regional koordinator. 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 20.10.2020.	Compliant		

			nt to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible collaborate on such research projects, the farm may demonstrate compliance by showing evidence of commitment or directed outreach to relevant organizations.			
	Indicator: A demonstrated commitment [34] to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks Requirement: Yes Applicability: All except farms that release no water as noted in [32]	a. Retain records to show how the farm and/or its operating company has communicated with external groups (NGOs, academics, governments) to agree on and collaborate towards areas of research to measure impacts on wild stocks, including records of requests for research support and collaboration and responses to those requests.				
3.1.2		 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. 	Commitment and participation of Cermaq Norway AS is documented in several projects with NGOs, academics and governments. Cermaq is a stakeholder in ClimeFish. ClimeFish is an EU project focusing on seafood production in areas and with species that have the potential for sustainable growth, taking into consideration predicted climate changes (https://climefish.eu/cermaq/). The competency cluster with action plan for 2019 includes details of other projects in smolt and escaped salmon tracing			
		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.	and modelling sea lice, financial and non-financial support documented. As part of the system of collaboration with NGO's the process of reviewing and evaluate research propsals is included as part of the QMS system in Intelex			
		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 m	ninimum, a farm and/or its operating company must demonstrate this	s commitment through providing farm-level data to researchers, granting researchers access to sites, or other similar non-	-financial suppo	ort for research activities.	

3.1.3	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]	incorporating feedback from the monitoring of wild salmon where applicable (See 3.1.6). c. Provide the CAB access to documentation which is sufficient for	"Samordnet plan for lusebekjempelse I subregion Nordland Nord" (2019, Bodø) details that all members of the ABM scheme must meet at least twice a year to review sea lice load and treatments. Further to this, information for the previous year documented in "Lus Cermaq Nordland 2020-2019" excel file which is used for tracking sea lice numbers and trends, and is referred to during the planning of treatments. The site takes into consideration the regulatory obligations and sensitive periods for wild salmon when planning treatments. d) Submitted to ASC in email 20.10.2020.	Compliant		
	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]	provide the CAB with details on the method and efficacy of the method. 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. e. Keep records of when and where test results were made public. f. Submit test results to ASC (Appendix VI) at least once per year.	The method for sea lice counting and reporting is described in "Samordnet plan for lusebekjempelse I subregion Nordland Nord" (2019, Bodø). This is in accordance with national Regulations on Combating Salmon Lice in Aquaculture Facilities (Forskrift om bekjempelse av lakselus i akvakulturanlegg) §4 Coordinated plan for control and combating Salmon lice are counted at least every 7 days when the sea temperature is over or equal to 4 °C, and at least every 14 days when temperatures are below 4 °C. All results are made publicly available the same week via Barentswatch (https://www.barentswatch.no/fiskehelse/locality/11320/2020/26/overview). Staff receive training in lice counting when they start, which they then repeat every five years. Training documentation seen in the company database Intelex(Kompetansestyring V2). All permanent employees at the site had completed "Lusekurs" training. f) Submitted to ASC in email 20.10.2020.	Compliant		
Footnote	[33] resting must be weekly during and immed	(below 4 degrees C). Within closed p	cion of wild juvenile salmon. Testing must be at least monthly during the rest of the year, unless water temperature is so construction systems, alternative methods for monitoring sea lice, such as video monitoring, may be used.	Loid that it wol	ara jeoparaize raimea iisii nealt	in to test for fice
Footnote		[36] Pos	sting results on a public website is an example of "easily publicly available."			

	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]	jurisdictions with wild salmonids. The information is likely to come for themselves. However farms must demonstrate that they are aware minimizing potential impact on those wild stocks. This Indicator requires collection and understanding of general data data for every small river or tributary or subpopulation. Information the same species and hence self-sustaining. A "conservation unit" urecognized that each jurisdiction may have slight differences in how For purposes of these standards, "areas with wild salmonids" are deencompass all, or nearly all, of salmon-growing areas in the northern species is not natural to a region (e.g. Atlantic or Pacific Salmon in Chestablished themselves as a reproducing species in "the wild". Farms do not need to conduct research on migration routes, timing a understanding of this information at the general level for salmonid p	t relevant data sets on wild salmonid health and migration are publicly available in the vast majority of, if not all, rom government sources or from research institutions. Therefore farms are not responsible for conducting this research of this basic information in their region, as such information is needed to make management decisions related to for the major watersheds within approximately 50 km of the farm. A farm does not need to demonstrate that there is should relate to the wild fish stock level, which implies that the population is more or less isolated from other stocks of nder the Canadian Wild Salmon Policy is an example of an appropriate fish stock-level definition. However, it must be			
1		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 Sørdalsvassdraget 3,5 km and river Ryggedlasvassdraget 9,2 km, respectively using the measurement tool at https://lakseregisteret.fylkesmannen.no b) The life history and migration routes of wild salmonids is well known and reported by official sources. 1. 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. https://lakseregisteret.fylkesmannen.no 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.			
		outmigration routes, migration timing (range of months for juvernile outmigration and returning salmon), life history timing for coastal		Compliant		
		c. From data in 3.1.5b, identify any sensitive periods for wild salmonids (e.g. periods of outmigration of juveniles) within 50 km	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 star	ndards, "areas with wild salmonids" are defined as areas within 75 kilo	ometers of a wild salmonid migration route or habitat. This definition is expected to encompass all, or nearly all, of salmo	n-growing area	as 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.					gion, as such

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]	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.	a) Atlantic salmon (Salmo salar) and sea run brown trout (Salmo trutta) is naturally occurring in the area. b) Private initiatives interfering with wild stock is prohibited by law. Governmental monitoring and reporting. VR136 is applicable. 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) Reports public available at www.imr.no and www.miljødirektoratet.no. e) Submitted to ASC in email 20.10.2020.	Compliant	
	wha han [55]. See detailed requirements in	is during juvenile outmigration and approximately one month	a) Atlantic salmon (Salmo salar) and sea run brown trout (Salmo trutta) is naturally occurring in the area. 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. Lice treatment are done 24.10.2019/06.11.2019 Emamektin Vet 3,3, mg/15.12.2019/29.12.2019. Emamektin vet 7 mg total 6 cages/6 cages. Lice counting is done every week. Last lice counting is done by 15.10.2020, week 42, 4 cages/120 fish/0,3 moving lice/0,05 non moving lice and 0,26 female adult lice has been counted totally. Lice counting for week 43 was not		
3.1.7	Requirement: 0.1 mature female lice per farmed fish Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32] d. Provide between t monitoring	c. Maintain detailed records of monitoring on-farm lice levels (see	completed at time of audit. The sensitive period as defined by Norwegian regulations has been accepted by VR 227. c) Reports public available at www.imr.no and www.miljødirektoratet.no. 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	Compliant	
		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). [39] Sensitive periods for	(https://www.imr.no/enIMR), and on that basis the strategic plan is defined by the relevant authorities and the ABM to be followed.		

	Criterion 3.2 Introduction of non-native species							
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):					
		reproduction (e.g. the Northern Atlantic Coast of the U.S. and Canad account the zone in which key cumulative impacts on wild population	ciguous body of water with the bio-chemical and temperature profile required to support the farmed species' life and (a). Appendix II-1A elaborates further on this definition: "The boundaries of an area should be defined, taking into ns may occur, water movement and other relevant aspects of ecosystem structure and function." The intent is that the he 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.						
		b. Provide documentary evidence that the non-native species was widely commercially produced in the area before June 13, 2012.						
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]	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.						
	Applicability: All farms except as noted in [40]	d. If the farm cannot provide evidence for 3.2.1b or 3.2.1c, provide documented evidence that the production system is closed to the natural environment and for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce [40]; and 3) barriers ensure there are no escapes of biological material [40] that might survive and subsequently reproduce (e.g. UV or other effective treatment of any effluent water exiting the system to the natural environment).	a-b-c-c) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 20.10.2020.	N/A	Native species being farmed			
Footnote	[40] Exceptions shall be made for production	systems that use 100 percent sterile fish or systems that demonstrate	e separation from the wild by effective physical barriers that are in place and well-maintained to ensure no escapes of re subsequently reproduce.	ared specime	ns or biological material that might survive and			

	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]	Farms are exempt from this standard if they are in a jurisdiction whe	dard from the time of publication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017). ere the non-native species became established prior to farming activities in the area and the following three conditions onmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was			
		a. Inform the ASC of the species in production (Appendix VI).	a-e) N/A. Atlantic salmon (Salmo salar) is native in the area. Info submitted to ASC in email 20.10.2020.			
322		b. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.2 does not apply.				
		c. If yes to 3.2.2b, provide evidence of scientific research completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction. Alternatively, the farm may request an exemption to 3.2.2c (see below).		N/A	Native species being farmed.	
		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.				
		e. Submit evidence from 3.2.2c to ASC for review.				
Footnote		[41] The research must at a minimum include mult	ti-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		non-native salmon in that jurisdiction under this standard. In the event that the risk tools demonstrate "high" risks, the Sends to bring this evidence into future revision of the standard and those results taken forward into the revision process.	AD expects tha	at the ASC will prohibit the certif	fication of farming
Footnote	[43] Farms are exempt from this standard if the		ned prior to farming activities in the area and the following three conditions are met: eradication would be impossible or l the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining.	nave detriment	tal environmental effects; the in	troduction took
	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.				
3.2.3		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.	There are no cleaner fish or wrasse used for the control of the sea lice.	Compliant		
		c. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region.				

			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	b. Maintain records for the origin of all cultured stocks including the supplier name, address and contact person(s) for stock purchases.	contact information's c) Statement dt. 06.01.2020 from AquaGen stating that only conventional breeding and genetics are applied. For Langøyhovden 2019G the Product CV for fish group 19.02 from Broodstock producer Aquagen states Breed:	Compliant		
Footnote	[44] Trans	c. Ensure purchase documents confirm that the culture stock is not transgenic. sgenic: Containing genes altered by insertion of DNA from an unrelated	Aquagen QTL-Innova Shield+ HSMB ed organism. Taking genes from one species and inserting them into another species to get that trait expressed in the off	spring (referen	ce USDA).	
			Criterion 3.4 Escapes [47]			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote			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]	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]).	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 b)-c No escapes recorded. Verified in Fiskeridirektoratet portal d-)N/A e) Submitted to ASC in email 20.10.2020.	Compliant		0
Footnote	[46] Farms shall report all	escapes; the total aggregate number of escapees per production cycl	le must be less than 300 fish. Data on date of escape episode(s), number of fish escaped and cause of escape episode sha	III 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	c. During audits, arrange for the auditor to witness calibration of counting machines (if used by the farm). - 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).	Counting takes place during vaccination and at harvest. Fish counted at the smolt facility during vaccination process using Wingtech Counter, accuracy 98-100%. e) Submitted to ASC in email 20.10.2020.	Compliant	≥ 98%	
Footnote		[48] Accuracy shall be determined by	by the spec sheet for counting machines and through common estimates of error for any hand-counts.	1		
		Instruction to Clients for Indicator 3.4.3 - Calculation of Estimated Unexplained Loss (EUL) of fish is calculated at the end EUL = (stocking count) - (harvest count) - (mortalities) - (recorded of Units for input variables are number of fish (i.e. counts) per production adapted from footnote 59 of the ASC Salmon Standard.	d of each production cycle as follows:			
3.4.3	Indicator: Estimated unexplained loss [49] of farmed salmon is made publicly available Requirement: Yes Applicability: All	first audit, farm must demonstrate understanding of calculation and the requirement to disclose EUL after harvest of the current cycle. 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	a) Records maintained on FishTalk and provided in Transparency Data sheets. b) Estimated unexplained loss for the most recent full production cycle at Langøyhovden (2017G) is -3,68% c) Data made publicly available via Cermaq's ASC Dashboard website: https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering. d) Submitted to ASC in email 20.10.2020.	Compliant	2017 G:-3,68%	
Footnote	ootnote [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	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. 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	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. Langøyhovden risk assessment dated 07.05.2020 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. 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-394-R-2 by Akvaplan Niva INSP 013). Valid S years from 23.08.2019. Verified Inspection report of moorings including relevant components by Aquastructures (Norsk Akkreditering Prod 010) AQS dated 30.08.2019 c) N/A open system d) Maintenance records available in maintenance system Aquacom. Reviewed for cage 6. Verified ROV inspection reports of for all nets. 3 month inspection intervals for net inspection. In addition nets are inspected after each net handling operation. e) All employees have performed escape prevention training (verified in portal Intelex by auditor), and one documented escape simulation has been performed 2/3 2020.	Compliant		
		e. Train staff on escape prevention planning as per the farm's plan.				

PRINCIPLE 4: USE RESOURCES IN AN ENVIRONMENTALLY EFFICIENT AND RESPONSIBLE MANNER						
			Criterion 4.1 Traceability of raw materials in feed	Г		
Instruction Farms must intervals by been acknowinformation producers a In addition to use one of the matter of the	to Clients for Indicators 4.1.1 through 4.4.2 - Sour show that all feeds used by the farm are produced an independent auditing firm or a conformity assewledged by the ASC (see 4.1.1c below). Results from about their production and supply chains. Declarate duly informed of the requirements of the ASC States to the above, farms must also show that their feed of two different methods to demonstrate compliants. Farms may choose to source feed from feed products of feed according to farm specifications. Audit period meets ASC requirements. However, mixing	Compliance Criteria (Required Client Actions): reing of Responsibly Produced Salmon Feeds d in compliance with the requirements of Indicators 4.1.1 through 4.4 ressment body against a recognized standard which substantially incorporate these audits shall demonstrate that feed producers have robust into the feed producer that are provided to the farm to demonsalmon Standard relating to sourcing of responsibly produced salmon for suppliers comply with the more detailed requirements for traceabilities of feed producers: The feed producers: The feed producer will independently verify that manufacturing producers who demonstrate compliance using a "mass-balance" method. To fingredients into the general silos and production lines is allowed described to the feed producer will be a supplied to the feed producer will independently verify that manufacturing producers who demonstrate compliance using a "mass-balance" method. To fingredients into the general silos and production lines is allowed described to the feed producer will be a supplied to the feed producer will independently verify that manufacturing producers who demonstrate compliance using a "mass-balance" method. To fingredients into the general silos and production lines is allowed to the feed producer will be a supplied to the feed producer will be	Auditor Evaluation (Required CAB Actions): 4. To do so, farms must obtain documentary evidence that the feed producers (see note 1) are audited at regular porate requirements for traceability. Acceptable certification schemes include GlobalGAP or other schemes that have formation systems and information handling processes to allow the feed producers to be able to bring forward accurate strate compliance with these indicators must be supported by the audits. Farms must also show that all of their feed feed (see 4.1.1b below). If y and ingredient sourcing that are specified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows farms a Standards during the production of a given batch of feed. For example, the farm may request its feed supplier to			
produced th	ne feed, but there may be instances where feed su farm's obligation to show evidence that all feeds	ppliers are not directly responsible for feed production. Regardless of	arer"). In most cases, the organization supplying feed to a farm (i.e. the feed supplier) will be the same organization that whether the farm sources feeds directly from a feed producer or indirectly through an intermediary organization, it			
4.1.1	Indicator: Evidence of traceability,	the ASC Salmon Standard. 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.	a) Feed supplier: BIOMAR Records of purchase: recorded in FishTalk for incomplete 19G cycles for period 22.08.2019 to 22.10.2020 (audit date). Langøyhovden 2019G feed supplies from stocking to date of date of audit: 3.691 000 tons from supplier Biomar. b) Feed suppliers informed of relevant ASC requirements in mail of 26 March 2018 to Biomar c) Global G.A.P. CFM Version 2.2. BIOMAR Certificate GGN 4050373810030 valid to 20.12.2020	Compliant		
	Applicability: All	d. For each feed producer, determine whether the farm will use method #1 or method #2 (see Instructions above) to show	d) Method #2 Mass balance. e) Statement from regarding suppliers have been as below: Biomar dated 18.02.2020			
Footnote	[50] Traceability shall be at a level of detail that	permits the feed producer to demonstrate compliance with the stand	dards in this document (i.e., marine raw ingredients must be traced back to the fishery, soy to the region grown, etc.). Fed documentation of the ingredients covered under this standard.	ed manufactur	ers will need to supply the farm v	with third-party

			Criterion 4.2 Use of wild fish for feed [51]		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote		[5	1] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2.		
		information in order to make an accurate calculation of FFDRm as - the client ma	Instruction to Clients for Indicator 4.2.1 - Calculation of FFDRm ion (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle is outlined below. For first audits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete was > 1.2) if the farm can satisfactorily demonstrate to the auditor that: - the client understands how to accurately calculate FFDRm; intains all information needed to accurately calculate FFDRm (i.e. all feed specs for > 6 months) for the current production show how feed used for the current production cycle will ensure that the farm will meet requirements at harvest (i.e. FF	lete production cycle (i.e. if the FFDRm of the n cycle; and	
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	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. b. For FFDRm calculation, exclude fishmeal derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery. c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1). d. Calculate FFDRm using formulas in Appendix IV-1.	a-b) Registration in FishTalk on diet type, batch level with reference to supplier's feed serial number and percentage of fishmeal and other relevant information on feed suppliers web portal. Statements from feed supplier Biomar. c) For 2017G: eFCR = 1,16. 2019G (Generation to date): eFCR = 1,08 d) For 2017G: FFDRm = 0,28. 2019G (Generation to date): FFDRm = 0,46 e) Submitted to ASC in email 20.10.2020.	Compliant	2017G: FFDRm = 0,28

		Note: Under Indicator 4.2.2 forms can choose to calculate EEDRo (O	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.	ption #1) of EPA & DHA (Option #2). Farms do not have to demonstrate that they meet both threshold values. Chefit				
		a. Maintain a detailed inventory of the feed used as specified in 4.2.1a.					
	Indicator: Fish Oil Forage Fish Dependency Ratio	b. For FFDRo and EPA+DHA calculations (either option #1 or option #1 or option #2), exclude fish oil derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery.					
4.2.2	Maximum amount of EPA and DHA from direct marine sources [52] (calculated according to Appendix IV-2) Requirement: FFDRo < 2.52	c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.	a-b) See 4.2.1.a d) For 2017: FFDRo = 1,22 2019G (Generation to date): FFDRo = 1,63	Compliant		2017G: FFDRo =	
	or (EPA + DHA) < 30 g/kg feed Applicability: All	d. For option #1, calculate FFDRo using formulas in Appendix IV-1	e) N/A eF Submitted to ASC in email 20.10.2020.			1,22	
		e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2.					
		f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle.					
Footnote			by-products when fish are processed for human consumption or if whole fish is rejected for use of human consumption be regulations with regard to fish suitable for human consumption. In of the trimmings is not any species that are classified as critically endangered, endangered or vulnerable in the IUCN Ref				
			Criterion 4.3 Source of marine raw materials				
	T	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		<u> </u>	ı	
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			N/A			
	Requirement: Not required						
	Applicability: N/A						
Footnote	[53] Th	nis standard and standard 4.3.2 applies to fishmeal and oil from forag	ge fisheries, pelagic fisheries, or fisheries where the catch is directly reduced (including krill) and not to by-products or tr	immings used ir	n feed.		
Footnote		[54] Meets ISEAL guidelines as demonstrated three	ough full membership in the ISEAL Alliance, or equivalent as determined by the Technical Advisory Group of the ASC.				

		used in feed. a. Record FishSource score for each species from which fishmeal or	edients, do the following: rate fishery vn or click on the link from the menu on the left reads "Scores"	
432	FishSource score [55] for the fishery(ies) from which all marine raw material in feed is derived	fish oil was derived and used as a feed ingredient (all species listed in 4.2.1a).	a) BIOMAR, "Statement on Marine ingredient use 2019" d.t .18.02.2020:	
	Requirement: All individual scores ≥ 6, and biomass score ≥ 6 Applicability: All	b. Confirm that each individual score ≥ 6 and the biomass score is ≥6.	All species listed for composition of marine dry matter and fish oil, including trimmings and by-products. Summarized: - ASC Compliant material: marine dry matter 93,7% /Fish oil 78,8% Trimming percentage marine dry atter26.2%/ Fish oil 27% - IFFO RS certified material marine dry matter 79,9%/ Fish oil 81,8% - MSC certified material marine dry matter 60,5%/ Fish oil33,6%	
		c. If the species is not on the website it means that a FishSource assessment is not available. Client can then take one or both of the following actions: 1. Contact FishSource via Sustainable Fisheries Partnerships to identify the species as a priority for assessment. 2. Contract a qualified independent third party to conduct the assessment using the FishSource methodology and provide the assessment and details on the third party qualifications to the CAB for review.	b) Biomar "Statement on Marine ingredient use 2019" d.t .18.02.2020 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. c) All species used have scores.	Compliant ≥ 6
		-		
Footnote		[55] Or equivalent sco	re using the same methodology. See Appendix IV-3 for explanation of FishSource scoring.	
	Indicator: Prior to achieving 4.3.1,	audits of feed producers (see 4.1.1c) as evidence that traceability sy	an demonstrate chain of custody and traceability as verified through third-party audits. Farms may submit reports from stems are in compliance. Alternatively, farms may show that their feed producers comply with traceability requirements ches of fishmeal and oil, are certified to the International Fishmeal and Fish Oil Organization's Global Standard for	
	demonstration of third-party verified chain of custody and traceability for the batches of	For the first audit, a minimum of 6 months of data on feed is require	ed and evidence shall relate to species used in said dataset.	
	fishmeal and fish oil which are in compliance with 4.3.2. Requirement: Yes Applicability: All	third-party verified chain of custody or traceability program.	a) Global G.A.P. CFM Version 2.2. BIOMAR Certificate GGN 4050373810030 valid to 20.12.2020. BIOMAR traceability statement and description is included in "Statement on Marine ingredient use 2019" d.t.18.02.2020. A detailed list is seen for Biomar eg. Anchoveta, S. Peru/N. Chile reg XV-I-II, Blue Whiting, NE Atlantic, Sprat, European, other almost 20 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]	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	a). Reviewed list and confirmed consistent with 4.2.1a, 4.2.2a, 4.3.3b. b). Verified that the farm obtains declarations from feed supplier Biomar "Statement on Marine ingredient use 2019" d.t. 18.02.2020 c). Reviewed declarations which confirmed that the fish meal and oil did not originate from vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species and that fish meal/oil originated from IUU species is not used in the feed production. d). N/A There is not meal or oil originated from a species listed as vulnerable by IUCN.	Compliant		
	Indicator: Presence and evidence of a	certified under a scheme that is an ISEAL member and has	a-b) BIOMAR "Statement on Marine ingredient use 2019" d.t.18.02.2020 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. Public Statement on sustainability: https://www.biomar.com/no/norway/historier/barekraft/er-sjomat-fra-oppdrett-barekraftig/			
	Requirement: Yes	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.	Cermaq has issued a sustainability report detailing "No ingredients shall originate from IUU catch or vulnerable or endangered species" (Cermaq Sustainability Report 2018. Available on company website: https://www.cermaq.com/wps/wcm/connect/18c43ffd-1acd-4e4e-9d77-28b59b926abd/Cermaq-Sustainability-Report-2018_WEB.pdf?MOD=AJPERES&CONVERT_TO=url&CACHEID=ROOTWORKSPACE-18c43ffd-1acd-4e4e-9d77-28b59b926abd-mscmswr) c) List of origin of all fish products used in feed seen in "BioMar - Marine Ingredients Composition BioMar Norway 2019" (date: 18-02-2020) and "EWOS - ERKLÆRING: Dokumentasjon og informasjon om f\u00f3r levert iht. ASC" (date: 15-05-2020).	Compliant		
		c. Compile a list of the origin of all fish products used as feed ingredients in all feed.				
Footnote	[56] Trimmings are defined as by-prod	ducts when fish are processed for human consumption or if whole fis	h is rejected for use of human consumption because the quality at the time of landing does not meet official regulations	with regard to f	fish suitable for human consum	ption.
Footnote			[57] IUU: Illegal, Unregulated and Unreported.			
Footnote		[58] The International U	nion for the Conservation of Nature reference can be found at http://www.iucnredlist.org/.			
Footnote	[58] The International Union for the Conservation of Nature reference can be found at http://www.iucnredlist.org/. [59] For species listed as "vulnerable" by IUCN, an exception is made if a regional population of the species has been assessed to be not vulnerable in a National Red List process that is managed explicitly in the same science-based way as IUCN. In cases where a National Red List doesn't exist or isn't managed in accordance with IUCN guidelines, an exception is allowed when an assessment is conducted using IUCN's methodology and demonstrates that the population is not vulnerable.					

	Criterion 4.4 Source of non-marine 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]	a. Compile and maintain a list of all feed suppliers with contact information. (See also 4.1.1a) 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.	a)Feed supplier: Biomar www.biomar.com. b) Biomar statement " Purchase policy sustainable raw materials " last updated September 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.	Compliant			
	Applicability: All	c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible sourcing policies are implemented.	c) Global G.A.P. CFM Version 2.2. BIOMAR Certificate GGN 4050373810030 valid to 20.12.2020.				
Footnote	[60] Moratorium: A period of time in which ther	e is a suspension of a specific activity until future events warrant a re	emoval of the suspension or issues regarding the activity have been resolved. In this context, moratoriums may refer to su geographical regions.	ispension of the	e growth of defined agricultural	crops in defined	
Footnote	[61] Specifically, the policy shall include that vege	etable ingredients, or products derived from vegetable ingredients, m	nust not come from areas of the Amazon Biome that were deforested after July 24, 2006, as geographically defined by the be lifted, this specific requirement shall be reconsidered.	Brazilian Soy N	Noratorium. Should the Brazilia	n Soy Moratorium	
		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.					
	Indicator: Percentage of soya or soya-derived ingredients in the feed that are certified by the Roundtable for Responsible Soy (RTRS) or	b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent)	a-c)) Cermaq sustainability Report 2019, GRI Report, requiring feed raw material from sustainable sourcing, (ISEAL scheme fisheries). Code of conduct feed suppliers policy for Cermaq Group with statement of intent and policy,				
4.4.2	equivalent [62] Requirement: 100%	c. Notify feed suppliers of the farm's intent (4.4.2b).	d-e)BioMar: Soya products will only be sourced from certified ProTerra and RTRS, or equivalent known standards (BioMar Statement	Compliant			
	e. Provide evidence that soya used in feed is certified by	d. Obtain and maintain declaration from feed supplier(s) detailing the origin of soya in the feed.	"Innkjøpspolicy for Fôrråvarer" dated 12-09-2018)				
		e. Provide evidence that soya used in feed is certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62]					
Footnote		[62] Any alternate certification	on 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	material in the feed and maintain documentary evidence of this disclosure. For first audits, farm records of disclosures must cover >	a,b) Biomar "Statement on compound fish feed" from Biomar dated 06.01.2020. Biomar Sourcing Policy "Requirements of sustainable raw materials" dt12.09.2018. c. There is no transgenic ingredient. "Statement on compound fish feed" from Biomar dated 06.01.2020. The transparency sheets has been submitted to ASC dated 20.10.2020.	Compliant		
Footnote	[63]	The company or entity to which the farm or the producing company i	is directly selling its product. This standard requires disclosure by the feed company to the farm and by the farm to the bo	uyer of their sal	mon.	
Footnote		[64] Transgenic: Containing genes altered by insertion of DNA from a	n 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.			
		Compliance Criteria (Required Client Actions):	Criterion 4.5 Non-biological waste from production Auditor Evaluation (Required CAB Actions):		I	
		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.				
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)	b. Prepare a declaration that the farm does not dump non-biological waste into the ocean.	Environmental policy for Cermaq Norway AS (Miljøpolitikk for Cermaq Norway - signed Knut Ellekjær dated 26.05.2020). General Waste Management Plan Cermaq Norway 07.10.2020, including Local waste managent plan for Vesterålen and Langøyhovden dated 07.10.2020. Gives detailed overview of waste	Compliant		
	Requirement: Yes Applicability: All	c. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of.	fractions and how to handle each fraction. All waste (biological and non-biological) are delivered to official approved suppliers. For Langøyhovedeb all non-biological waste handled by Reno Vest. Waste declarations for all deliveries available at site.			
		d. Provide a description of the types of waste materials that are recycled by the farm.				
Footnote	[66] Proper and responsible disposal will vary bas biological waste into the ocean does not represe		Disposal of non-biological waste shall be done in a manner consistent with best practice in the area. Dumping of non-			

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) b. Provide a description of the types of waste materials that are recycled by the farm. (See also 4.5.1d) c. Inform the CAB of any infractions or fines for improper waste disposal received during the previous 12 months and corrective actions taken d. Maintain records of disposal of waste materials including old nets and cage equipment.	a) Reviewed Local waste management plan for waste materials sites in Vesterålen including Langøyhovden , d.t 07.10.2020, identifying waste materials, e.g. Paper, big bags from feed, electric waste, dangerous waste, special waste, old productions equipment, etc. The plan identify all receivers and how to proper dispose the waste. Net, pens and related equipment are returned to the supplier Mørenot for processing. Ropes, feed hoses and pens are delivered to Reno-Vest. Delivery of used feeding hoses was observed during audit. No fines or infractions for waste disposal.	Compliant	
		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.		
		applying for certification. Boundaries for operational energy use should be a semissions (i.e. the energy used to fabricate materials that are pursuse assessments across the board in the company. For the purposes of calculating energy consumption, the duration of have integrated smolt rearing should break out the grow-out stage.	rify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is ould correspond to the sources of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope rehased by the farm) is not required. However the SAD Steering Committee encourages companies to integrate energy of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that portion of energy consumption if possible. Quantities of energy (fuel and electricity) are converted to kilojoules. There the GHG Protocol Corporate Standard or ISO 14064-1 (see Appendix V-1 for more details).		
4.6.1		b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle.	Energy consumption data present in the transparency data file for 17G submitted to ASC 02-02-2020. For current generation 19G submitted 20.10.2020		
	Applicability: All	c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. d. Using results from 4.6.1b and 4.6.1c, calculate energy	Last Generation 17G: Total energy consumption in kilojoules (kj): 4 162 093 414 KJ Total weight of fish in metric tons (t) produced: 3392 tons Total energy consumption per ton of fish for 17G = 1227032kJ/mT Present generation 19G - from stocking to 20.10.2020, production still ongoing: Total energy consumption in kilojoules (kj): 3225795480 KJ	Compliant	1227032kJ/mT
		consumption on the farm as required, reported as kilojoule/mt fish/production cycle. e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle.	Total weight of fish in metric tons (t) produced: 3691 tons Total energy consumption per ton of fish for 19G = 873962kJ/mT Energy assessment performed in compliance with ASC requirements.		
		f. Ensure that the farm has undergone an energy use assessment that was done in compliance with requirements of Appendix V-1.			

		requirement is restricted to operational boundaries for the farm site accounting practices across the board in the company. Verification r (see Appendix V-1 for more details).	e Gas (GHG) assessment. Detailed instructions are presented in Appendix V-1 and references therein. The scope of this e(s) that is applying for certification. However the SAD Steering Committee encourages companies to integrate GHG may be done by internal or external assessment following either the GHG Protocol Corporate Standard or ISO 14064-1 assessment following either the GHG Protocol Corporate Standard or ISO 14064-1 assess listed in the Kyoto Protocol: carbon dioxide (CO ₂); methane (CH ₄); nitrous oxide (N ₂ O); hydrofluorocarbons (HFCs);			
		c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors.	revious 17G: 58,45 CO2e/mT cope 1: 133087 CO2e cope 2: 65188 CO2e fons produced: 3392		17G: 58,45	
		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. Current 19G: 61,70 CO2e/mT (from stocking to 20.10.2020, production still ongoing) Scope 1: 165840 CO2e Scope 2: 61905 CO2e Tons produced: 3691	Compliant		CO2e/mT	
	e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year. f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually. Energy assessment performed in 2006 and Eurost.	Energy assessment performed in compliance with ASC requirements. Factors used in calculations according to IPCC-2006 and Eurost.				
Footnote	[68] For the purpose	es of this standard, GHGs are defined as the six gases listed in the Kyo	oto Protocol: carbon dioxide (CO ₂); methane (CH4); nitrous oxide (N ₂ O); hydrofluorocarbons (HFCs); perfluorocarbons (PF	Cs); and sulphu	r hexafluoride (SF ₆).	
Footnote		[69] GHG emissions mu	st be recorded using recognized methods, standards and records as outlined in Appendix V.			

	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	from their feed supplier(s) and thereafter maintain a continuous reconstruction cycle. Therefore farms should inform their feed supplier(- the farm provides its feed suppliers with detailed information about - the farm explain what analyses must be done by feed suppliers; an - the farm explains to feed suppliers what documentary evidence wi	at the requirements including a copy of the methodology outlined in Appendix V, subsection 2; and sill be required by the farm to demonstrate compliance. The general composition used to produce the salmon (by weight) rather than using feed composition on a lot-by-lot		
4.6.3		a. Obtain from feed supplier(s) a declaration detailing the GHG emissions of the feed (per kg feed).			
		production cycle.	Declarations and calculations from feed suppliers. Feed supplier: Biomar 2017G: 6707 ton CO2 eq per total feed volume	Compliant	6707 t Co2
		c. If client has more than one feed supplier, calculate the total sum	2019G 11405,19 ton CO2, Info sent to ASC 20.10.2020	, i	
		d. Submit GHG emissions of feed to ASC as per Appendix VI for each production cycle.			
Footnote	[70] GHG emissions from feed can be given base		non (by weight) and not as documentation linked to each single product used during the production cycle. Feed manufactor accordance or mation to calculate GHG emissions for the volume of feed they used in the prior production cycle.	turer is respons	ible for calculating GHG emissions per unit feed.

			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	o not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.7.			
Footnote		[72] 5	See Appendix VI for transparency requirements for 4.7.1, 4.7.3 and 4.7.4.			
		a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.				
		b. Maintain records of antifoulants and other chemical treatments used on nets.				
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	c. Declare to the CAB whether copper-based treatments are used on nets.	is are not copper-treated. AquaNet Protect coating is used. The coating does not contain copper. Verified by lewing net log in maintenance system AquaCon for current generation, and onsite inspection. Nets are not cleaned ite, they are delivered to Mørenot in Rypefjord where nets are deep cleaned in between generations. Sumentation for net control and cleaning reviewed ("Prosedyre for kontroll, ettersyn of renhold av not" doc. 315, et 24-10-2018). During the cycle, nets may be cleaned on site with a low pressure in accordance with ASC uirements. It a submitted to ASC by email 20.10.2020.	Compliant		
		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.				
		e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle.				
Footnote			tance (such as a copper-based antifoulant) durng the previous 18 months, or has not undergone thorough cleaning at a la o long as sufficient time and cleaning has elapsed as in this definition. This will allow farms to move away from use of cop			
Footnote	[74] Light cleaning of nets is allowe	d. Intent of the standard is that, for example, the high-pressure unde	erwater washers could not be used on copper treated nets under this standard because of the risk of copper flaking off du	ring this type o	f heavy or more thorough clear	ning.
	Indicator: For any form that closure note at an	a. Declare to the CAB whether nets are cleaned on-land.				
4.7.2	Indicator: For any farm that cleans nets at onland sites, evidence that net-cleaning sites have effluent treatment [75] Requirement: Yes	b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place.	Nets are not copper-treated. Nets are washed by Mørenot, Rypefjord, at the end of each generation. Mørenot follow "Kvalitetshåndbok Mørenot Aquaculture AS" (Revised Edition 3, Dated 20-01-2014) procedure for the handling of waste water post-cleaning. The facility has an official approved system for effluent treatment	Compliant		
	Applicability: All farms except as noted in [71]	c. If yes to 4.7.2b, obtain evidence that effluent treatment used at the cleaning site is an appropriate technology to capture of copper in effluents.				
Footnote		[75] Treatment must have	ve appropriate technologies in place to capture copper if the farm uses copper-treated nets.			

	Note: If the benthos throughout and immediately outside the full AZ	E is hard bottom, provide evidence to the CAB and request an exemption from Indicator 4.7.3 (see 2.1.1c).			
Indicator: For farms that use copper nets or copper-treated nets, evidence of testing for copper level in the sediment outside of the AZE,	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.				
following methodology in Appendix I-1 Requirement: Yes Applicability: All farms except as noted in [71]	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.	Nets are not copper-treated.	Compliant		
	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.				
	a. Inform the CAB whether:1) farm is exempt from Indicator 4.7.4 (as per 4.7.3a), or2) Farm has conducted testing of copper levels in sediment.				
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	b. Provide evidence from measurements taken in 4.7.3b that copper levels are < 34 mg Cu/kg dry sediment weight.	NOTE: C-Survey report for current generation 2019G, will be performed when the biomass reaches the 75% peak biomass window. The C-Survey is scheduled in November 2020, by Akvaplan Niva. The principles 2.1.1, 2.1.2, 2.1.3 and 4,7,4 is unchanged from Surveillance 2 audit performed in February 2020, as the same data and C-survey report applies for this Recertification audit, performed October 2020. a) Farm is exempt from indicator 4.7.4, but farm has conducted testing of copper levels in sediment b) Verified in C-Survey sampling analyzes. Copper levels are in the range thus below 34 mg/kg for the site. c-d) N/A			
	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		Compliant		< 34 mg Cu/kg
Applicability: All farms except as noted in [71] and excluding those farms shown to be exempt from Indicator 4.7.3	d. Analyze results from 4.7.4c to show the background copper concentrations as measured at three reference sites in the water body.				
	e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle.				
	[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.			
legislation in the European Union, or the United	a. Identify all biocides used by the farm in net antifouling.	AquaNet Protect is the coating present on nets, it does not contain copper. It is approved under FU-forordning			
Requirement: Yes Applicability: All farms except as noted in [71]	in 4.7.5a is approved according to legislation in one or more of the following jurisdictions: the European Union, the United States, or	2015/830/EF. All information is provided in the safety datasheet (Sikkerhetsdatablad AquaNet Protect. Version 1.0.	Compliant		
	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] 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 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. Declare to the CAB whether the farm uses 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] Indicator: Evidence that copper levels [76] are 43 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] 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. b. Provide evidence from measurements taken in 4.7.3b that copper levels are < 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 d. Analyze results from 4.7.4c to show the background copper concentrations as measured at three reference sites in the water body. [76] According to testing required under 4.7.3. The linking are approved according to legislation in the European Union, or the United States, or Australia Requirement: Yes D. Compile documentary evidence to show that each chemical used in 4.7.3s is approved according to legislation in one or more of the	Indicator To farms that use cooper nets of copper feeds of 2.41.6. If "yes", Indicator 4.7.3 does not copper feed in the sediment outside of the 7.5. Requirement: YE Applicability: All farms except as noted in [71] Indicator Evidence that copper feed [78] are 4.7.3 as, measurement except depend in sediments companies and incompanies and incompan	Describe to the fact the service of the CAB whether the farm uses capper rest or copportunities risk, whether or distinct for the capper level at the property of the CAB whether the farm uses capper rest or copportunities. Applicability_All firms except as needed in [7]	**Script for the AB Aberbar in the form of A

Requirement: 100% [80] Applicability: All c. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification. Seen Handelsdocument, Scanbio Ingredients AS delivery Declaration RP-24303, dated 14.09.2020 2000 Kat 2 ensilage for the delivery made 05.09.2020 .	PRINCIPLE 5	: MANAGE DISEASE AND PARASITES IN AN ENVIRO	DNMENTALLY RESPONSIBLE MANNER				
Sequence of the control of the contr							
Solid Section Polishood of a Tail health concept and the composition of the confinction and management glint of the confinction and proposed and confinction and management glint of the confinction glint and management glint of t		T .					
recorating of the destination and months of extended and suppressed of continuous and particles for disease, particles of continuous and particles for disease, and particles for disease and particles for control particles for disease and particles for control particles for control particles for any particles for parti	Footnote		[77] \$	See Appendix VI for transparency requirements for 5.1.4, 5.1.5 and 5.1.6.		1	
Inh health managers (82), if sub-deduction to every mode, recommendation of the second to every mode, and the second to every mode, the second to every mode, and the seco	5.1.1	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	components related to identification and monitoring of fish disease and parasites. This plan may be part of a more comprehensive farm planning document. b. Ensure that the farm's current fish health management plan was	of disease and treatments, water quality, and approved therapeutants. Signed and approved by Fish Health Manager/Veterinarian EF. All site staff are required to undergo training in Fish Health and Welfare every 5 years. Log of	Compliant		
by a fish health manager (7g) at least once a mode, and the farm's designated veterinarins (1g) (1g) and fish health manager(s) Applicability: All Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database. Complaint Fish Health Personal P		, -	fish health managers [82]. If schedule cannot be met, a risk	database. 10 visits with reports seen during audit (January-October). Last visit: 21.09.2020. by MW, Fish Health			
C. Maintain records of the qualifications of persons identified in 5.1.2b. Footnote T/8] 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 qualification applies to all references to a veterinarian throughout the standards document. Footnote T/9] 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. a. Maintain records of mortality removals to show that dead fish are removed regularly and disposed of in a responsible manner. b. Collect documentation to show that disposal methods are in line with professional expertise in managers and/or relevant legal authorities. Dead fish are disposed of via ensilage in containers at barge. These are then removed of by Scaniblo in line with Norwegian regulations. Procedure for handling dead fish and ensilage ("Proceepings for handering as deaffish, swimers or relevant legal authorities. Dead fish are disposed of via ensilage in containers at barge. These are then removed of by Scaniblo in line with Norwegian regulations. Procedure for handling dead fish and ensilage ("Proceepings for handering as deaffish, swimers or relevant legal authorities. Compliant Compliant Compliant Controlled on the delivery made 05.09.2020. Compliant Controlled on the delivery made 05.09.2020.	5.1.2	by a fish health manager [79] at least once a month Requirement: Yes Applicability: All	farm's designated veterinarian(s) [78] and fish health manager(s)	Fish Health Personal registered and verified by cross checking with Norwegian Health Personal Database.	Compliant		
Footnote equivalent to a veterinarian for purposes of these standards. This definition applies to all references to a veterinarian throughout the standards document. [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. a. Maintain records of mortality removals to show that dead fish are removed regularly and disposed of in a responsible manner. b. Collect documentation to show that disposal methods are in line with practices recommended by fish health managers and/or relevant legal authorities. Seen Handelsdocument, Scanbio Ingredients AS delivery Declaration RP-24303, dated 14.09-2020 2000 l Kat 2 ensilage for the delivery made 05.09-2020. Compliant			· · · · · · · · · · · · · · · · · · ·				
Indicator: Percentage of dead fish removed and disposed of in a responsible manner Indicator: Percentage of dead fish removed and disposed of in a responsible manner 5.1.3 Requirement: 100% [80] Applicability: All c. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification. a. Maintain records of mortality removals to show that dead fish are removed of by ScanBio in line with Norwegian regulations. Procedure for handling dead fish and ensilage ("Prosedyre for håndtering av dødfisk, svimere og ensilasje", version 24, date: 15-03-2019) describes the removal process for deadfish. All mortalities are recorded on FishTalk database. Compliant Compliant	Footnote	[78] A designated veterinarian is the profession			er professional	has equivalent professional qua	alifications and is
Indicator: Percentage of dead fish removed and disposed of in a responsible manner. 5.1.3 Requirement: 100% [80] Applicability: All C. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification. Dead fish are disposed of via ensilage in containers at barge. These are then removed of by ScanBio in line with Norwegian regulations. Procedure for handling dead fish and ensilage ("Prosedyre for hândtering av dødfisk, svimere og ensilasje", version 24, date: 15-03-2019) describes the removal process for deadfish. All mortalities are recorded on FishTalk database. Seen Handelsdocument, Scanbio Ingredients AS delivery Declaration RP-24303, dated 14.09.2020 2000 l Kat 2 ensilage for the delivery made 05.09.2020.	Footnote	[79] A fis	sh health manager is someone with professional expertise in managin	g fish health, who may work for a farming company or for a veterinarian, but who does not necessarily have the authority	/ to prescribe n	nedicine.	
Indicator: Percentage of dead fish removed and disposed of in a responsible manner 5.1.3 Requirement: 100% [80] Applicability: All C. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification. C. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification. Indicator: Percentage of dead fish removed and disposal regulations. Procedure for handling dead fish and ensilage ("Prosedyre for håndtering av dødfisk, svimere og ensilasje", version 24, date: 15-03-2019) describes the removal process for deadfish. All mortalities are recorded on FishTalk database. Seen Handelsdocument, Scanbio Ingredients AS delivery Declaration RP-24303, dated 14.09.2020 2000 I Kat 2 ensilage for the delivery made 05.09.2020. Compliant Compliant Compliant			· ·	Dead fish are disposed of via ensilage in containers at barge. These are then removed of by ScanBio in line with			
collected for post-mortem analysis, keep a written justification.	5.1.3	disposed of in a responsible manner Requirement: 100% [80] b. Collect documentation with practices recomme relevant legal authorities	b. Collect documentation to show that disposal methods are in line with practices recommended by fish health managers and/or	Norwegian regulations. Procedure for handling dead fish and ensilage ("Prosedyre for håndtering av dødfisk, svimere og ensilasje", version 24, date: 15-03-2019) describes the removal process for deadfish. All mortalities are recorded on FishTalk database. Seen Handelsdocument, Scanbio Ingredients AS delivery Declaration RP-24303, dated 14.09.2020 2000 I Kat 2 ensilage	Compliant		100%
Footnote [80] The SAD recognizes that not all mortality events will result in dead fich present for collection and removal. However, such situations are considered the exception rather than the norm							
Toothote Loop The SAD Tecognizes that not all mortality events will result in dead itsi present for collection and removal. However, such situations are considered the exception father than the norm.	Footnote		[80] The SAD recognizes that not all mortality events will resu	ult in dead fish present for collection and removal. However, such situations are considered the exception rather than the	norm.		

		Note: Farms are required to maintain mortality records from the curl It is recommended that farms maintain a compiled set of records to	rent and two previous production cycles. For first audit, records for the current and prior production cycle are required. demonstrate compliance with 5.1.3 - 5.1.6.			
5.1.4	Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis Requirement: 100% [81] Applicability: All C. reserved.	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).				
		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.		Compliant		
		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).				
		d. Using results from 5.1.3a-c, classify each mortality event and keep a record of those classifications.				
		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).				
		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).				
Footnote	[81] If on-site diagnosis is inconclusive, this st	andard 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 necessar mortality event shall be analyzed.	ily every fish. A	statistically relevant number of	f fish from the

5.1.5	Indicator: Maximum viral disease-related mortality [82] on farm during the most recent production cycle Requirement: ≤ 10% Applicability: All	to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	a) 2017G most recent complete production cycle total mortality: 92092 - 8,99% Diagnosed viral disease: 0 - 0,00 % 2019G current production cycle total mortality: 54986 - 5,0% (From stocking to date of reporting) Diagnosed viral disease: 0 - 0,00 % b) 2017G Unspecified and unexplained mortalities: 25385 = 27,56 % of total mortalities Combine viral and unexplained mortality: 25385 Total number of fish produced in the production cycle: 1024382 Maximum viral disease-related mortality: (25385/1024382)*100 = 2,48% 2019G Unspecified and unexplained mortalities: 40579 = 73,8 % of total mortalities Combine viral and unexplained mortality: 40579 Total number of fish produced in the production cycle: 1099720 Maximum viral disease-related mortality: (40579/1099720)*100 = 3,69% c) Submitted to ASC in email dt.20.10.2020.	Compliant	2,48%
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. 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 	a) 2017 G (past cycle): Total mortality 8,99 % b) Unexplained mortality rate was: 27,59 % of total mortality 2017G: 2,48%	Compliant	27,59%

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		Note: Farms have the option to integrate their farm-specific mortali	ty 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.			
5.1.7	programme that includes defined annual targets for reductions in mortalities and reductions in unexplained mortalities Requirement: Yes Applicability: All	b. Use the data in 5.1.7a and advice from the veterinarian and/or fish health manager to develop a mortalities-reduction program that defines annual targets for reductions in total mortality and unexplained mortality.	Mortalities are recorded and monitored on FishTalk. Fish Health Plan sets in place the procedures for handling of mortalities ("Fiskehelseplan" Version 9, date: 21-10-2020) as well as in the contingency plan (Beredskapsplan Version 6; Date: 09.12.2019; Sections 1. 5). This means there are datasets of farm specific mortality rates, with the fish health practices being adjusted accordingly. Before the new cycle starts, another meeting is held to review the previous site practices and how to improve on them for the upcoming cycle. This meeting involves farm management and the fish health team.	Compliant	
		c. Ensure that farm management communicates with the veterinarian, fish health manager, and staff about annual targets and planned actions to meet targets.	Target 2020: Survival for completed generations in region Nordland, ex algae related mortality: 93,1%. Source "Måldokument Cermaq Norway 2020".		
			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.		
	2.1 requires that farms maintain detailed record of 5.2.1 through 5.2.10) under Criterion 5.2.	all chemical and therapeutant use. Those records maintained for cor	mpliance with 5.2.1, if all consolidated into a single place, can be used to demonstrate performance against subsequent		
	the most recent production cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated	- the WHO classification of antibiotics (also see note under 5.2.8); and the supplier of the chemical or the repositions.	Records are maintained on Cermaq's database. Details include; therapeutants used, dosage, withholding periods, dates prescribed, fish group treated. Cross referencing with prescriptions demonstrate accurate record keeping. All treatments are fully traceable throughout the production cycle and maintained for the previous generations also. Fish CVs provided to buyers (For example: Product and Quality Control. Fish Group: 17.03. Cage: 6-120. Fish Input: 15-08-2017. Well boat: Viktoria Lady) document all therapeutants used during production. Prescriptions for Benzoak and		
	Requirement: Yes therapeutant use to address all points in two production cycles. For first audits, a	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	Emamectin seen. Fish Health Visit reports document the site visits and cycle history. Records cover previous production cycles.	Compliant	
		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).			
			[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	primary salmon producing and importing countries listed in [86]. b. Maintain records of voluntary and/or mandatory chemical	a) Allowed therapeutants, dosage and withholding periods are also maintained in the Fish Health Plan ("Fiskehelseplan" Version 9, date: 21-10-2020) 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. Mandatory chemical residual testing is performed monthly by Mattilsynet in processing plant.	Compliant	
		-	Compliance verified and in accordance with requirements and also in accordance with reports and usage recorded in production system Fishtalk. substance banned in any of the primary salmon-producing or importing countries, as defined here, cannot be used in any	salmon farm ce	ertified under the SAD, regardless of country of
Footnote		<u> </u>	on of the product. The SAD recommends that ASC maintain a list of a banned therapeutants. andard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France.		
523	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). b. Maintain copies of all prescriptions and records of veterinarian	a) Record of prescriptions: 5 prescription on 2017 G, all from veterinarian / fish biolog Record of prescriptions was seen in the internal system. Example 2019G: Veterinarian MFW Prescription 2019111129.07, date 28.11.2019 Emmamectin. Prescription 20201002.01, date 02.10.2020 Benzoak vet 20% b) 100% of treatment events are prescribed by a veterinarian Original prescription in site folder and registered in Fishtalk with withholding periods defined in prescription and in Fishtalk.	Compliant	
	management	b. Compile and maintain documentation on legally-required	a) In Fishtalk, automatically notified/blocked according to degree-days witholdingtime stated in prescription. According to FHMP/VHP on withholding periods defined in Fishtalk and specific prescription.		
	Requirement: Yes Applicability: All	treatment of the salmon before the salmon can be harvested for use as food. c. Show compliance with all withholding periods by providing	b) Documented in Fishtalk, automatically notified/blocked according to degree-days 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	
		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	a. Using farm data for therapeutants usage (52.1a) 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.	a) The WNMT score was calculated correctly and that the scores are accurate. Documented in Fish Talk. b-) WHMT: For generation 2019G: 2 (not completed yet)	. Compliant	WHMT: 19G 2
	Applicability: All	c. Submit data on farm level WMNT score to ASC as per Appendix VI for each production cycle.	c-)Sent to ASC on 20.10.2020		
5.2.6	Indicator: The Weighted Number of Medicinal Treatments shall be at or below the country Entry Level (see Appendix VII)	a. Review WNMT scores from 5.2.5a to determine if the score is at or below the Country Entry Level (see Appendix VII)	a) Norway Country Entry Leve: 5. The WNMT score for the most recent production cycle: 2 b) Sent to ASC on 20.10.2020	Compliant	
	Requirement: Yes Applicability: All	b. As applicable, submit data to ASC on WNMT score for the most recent production cycle (Appendix VI).		Compliant	
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).	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.	N/A	Compliant	
	Applicability: All	quirement: Yes b. As applicable, submit data to ASC on WMNT score for the most			
	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).	Integrated pest Management (Skadedyrkontroll Cermaq Norway, Date: 25-05-2020) reviewed. Document is produced		
			for all Cermaq farms in Norway. It comprehensively covers regulatory requirements and fish parasite issues specific to farms in the region.	Compliant	

5.2.9	company website) the IPM-measures that the company applies which need to be approved by a authorised veterinarian. Requirement: Yes	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.	IPM publicly available on Cermaq website (https://www.cermaq.com/wps/wcm/connect/83084640-d174-4ef5-8cc6-69d18d630371/IPM+Cermaq+Norway+2020+V2.pdf?MOD=AJPERES&CVID=n9lg3QA) IPM is signed by an authorized veterinarian, HPR number verified through the Norwegian Health Personal database.	Compliant	
residue		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.			
	Indicator: The farm shall monitor parasiticide residue levels annually in the benthic sediment directly outside the AZE. Requirement: Yes Applicability: All	b. If benthos throughout the full AZE is hard bottom, provide evidence to the CAB and request an exemption from 5.2.10	N/A in accordance with ASC Q&A111, effective as of 15-01-2020. Guidance on this indicator has not been published.		
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.		N/A	
		d. Retain documentary evidence to show how scores were obtained. If samples were analysed an independent laboratory, obtain copies of results.			
		a. Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles.			
5.2.11	Requirement: None	b. Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3)	No Antibiotics have been used during the previous 17G or current 19G cycles. All medicinal related events are registered on Cermaq's FishTalk database.	Compliant	
		c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.13).			

		a. Maintain a current version of the WHO list of antimicrobials critically and highly important for human health [89].			
	Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the World Health Organization (WHO) Requirement: None Applicability: All				
		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.	WHO list of critically important antimicrobials Version 6, released 2019 available on internal server. No Antibiotics have been used during the previous 17G or current 19G cycles.	Compliant	
		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			
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.		Compliant	0
		b. Calculate the total number of treatments of antibiotics over the most recent production cycle and supply a verifiable statement of this calculation.			

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. 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.	N/A	N/A	
5.2.15	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). b. Maintain records showing the farm has informed all buyers of its salmon about all therapeutants used in production. 	Fish CVs (For example: Product and Quality Control. Fish Group: 17.03. Cage: 6-120. Fish Input: 15-08-2017. Well boat: Viktoria Lady) are given to buyers of the salmon detailing all therapeutants, mechanical treatments and feeds used during production.	Compliant	

		Criterion 5.3 F	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	condition and type of medicinal treatment. Therefore farms and aud treatment. Example: sea lice treatment with emamectin benzoate The SAD SC recommends that a typical baseline for effectiveness of whether treatment has produced the expected effect, farm and aud treatment did not produce the expected effect and a bio-assay should be selected bio-assays for determining resistance are ineffected.	Effect' of Medicinal Treatment t produced the expected effect. The SAD Steering Committee recognizes that the "expected effect" will vary with health ditors will need to review the pre- and post-treatment condition of fish in order to understand and evaluate the impact of emamectin benzoate is a minimum of 90 percent reduction in abundance of lice on the farmed fish. To determine ditor must review pre- and post-treatment lice counts. If the calculated percent reduction in lice is < 90% then the uld be performed to determine whether sea lice have developed resistance. Ctive or unavailable, the farm shall have samples analyzed by an independent laboratory to determine resistance ed bio-assays were deemed ineffective and shall include results from the laboratory analyses of resistance formation.		
	resistance when two applications of a treatment have not produced the expected effect Requirement: Yes Applicability: All	a. In addition to recording all therapeutic treatments (5.2.1a), keep a record of all cases where the farm uses two successive medicinal treatments.			
		treatment against the expected effect of treatment. c. For any result of 5.3.1b that did not produce the expected effect,	Fish health reports and prescriptions shows the use of Emamectin Benzoate occurring twice per cycle. Therefore more than two applications of a treatment has not been performed. Results of treatments were as expected, hence no bioassay testing performed.	N/A	
		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	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.			
	of all fish on the site Requirement: Yes Applicability: All	b. When bio-assay tests show evidence that resistance has formed, keep records showing that the farm took one of two actions: - used an alternative treatment (if permitted in the area of	Fish health reports and prescriptions shows the use of Emamectin Benzoate occurring twice per cycle. Therefore more than two applications of a treatment has not been performed. Results of treatments were as expected, hence no bioassay testing performed.	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.	All medicinal treatment products are listed in the Fish Health Plan ("Fiskehelseplan" Version 9, date: 21-10-2020). Fish health reports and prescriptions shows the use of Emamectin Benzoate occurring twice per cycle (19G). Therefore more than two applications of a treatment has not been performed. Results of treatments were as expected, hence no treatment rotations needed.	N/A			
		•	Criterion 5.4 Biosecurity management [95]				
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
Footnote		[9]	5] 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. 	Fish CVs (For example: Product and Quality Control. Fish Group: 17.03. Cage: 6-120. Fish Input: 15-08-2017. Well boat: Viktoria Lady) show all fish on site for the previous generation were of one year class. Stocking of 2019G began 22.08.19. Prior to this, the site was fallowed between 2017G and 2019G in the period between 15.11.18 and 21.08.19.	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	- life allower to 3.4.20 was ves .	No mortality event or events of unidentifiable transmissible agent category mortality categorized nor suspected at farm. Ref to indicator 5.1.4a for details of monitoring.	N/A	
		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 m	ortality: A statistically significant increase over background rate on a monthly basis.		
Footnote		[99] Primary aim of monitor	ring 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] 4.3 Requirement: Yes Applicability: All	practices consistent with the intentions of the Code. For purposes of aggressive response to detection of an exotic OIE-notifiable disease pathogen)]. An aggressive response will involve, at a minimum, the depopulation of the infected site; - implementation of quarantine zones (see note below)in accordant additional actions as required under Indicator 5.4.4. To demonstrate compliance with Indicator 5.4.3, clients have the to developing relevant policies and procedures and integrating them in	th the OIE Aquatic Animal Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm of the ASC Salmon Standard, this means that the farm must have written procedures stating how the farm will initiate an on the farm ['exotic' = not previously found in the area or had been fully eradicated (area declared free of the following actions: Index on the farm previously found in the area or had been fully eradicated (area declared free of the following actions: Index on the farm previously found in the area or had been fully eradicated (area declared free of the following actions: Index on the farm previously found in the area or had been fully eradicated (area declared free of the following actions: Index on the farm previously found in the area or had been fully eradicated (area declared free of the following actions: Index on the farm previously found in the area or had been fully eradicated (area declared free of the following actions: Index on the farm previously found in the area or had been fully eradicated (area declared free of the following actions: Index on the farm previously found in the area or had been fully eradicated (area declared free of the following actions: Index on the farm previously found in the area or had been fully eradicated (area declared free of the following actions: Index on the farm previously found in the area or had been fully eradicated (area declared free of the farm previously found in the area or had been fully eradicated (area declared free of the farm previously found in the area or had been fully eradicated (area declared free of the farm previously found in the area or had been fully eradicated (area declared free of the farm previously found in the area or had been fully eradicated (area declared free of the farm previously found in the area or had been fully eradicated (area declared free of the farm previously found in the area or had been fully eradicated (area declared free of the farm previously found in the area or had been fully era				
		a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version.					
		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.	OIE Aquatic Animal Health Code Version 6 (2019) is available on the Cermaq common server, and is accessible to all on site via use of the farm's computer. The farm's Fish Health Plan ("Fiskehelseplan" Version 9, date: 21-10-2020, Signed by Head of Fish Health Nordland EF) is consistent with the OIE Aquatic Animal Health Code.	Compliant			
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] OI	E 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	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]	Langøyhovden proactively monitors monthly the OIE-notifiable disease Pancreas Disease (PD) by monthly screening. Samples are sent to external laboratory Patogen (Norsk Akkreditering certified as a laboratory according to ISO17025, registered number: TEST 235). ; Both the Fish Health Plan ("Fiskehelseplan" Version 9, date: 21-10-2020) and Contingency Planning document (Beredskapsplan Version 6; Date: 09.12.2019; Sections 1. 5) provide policies and procedures on how to respond to OIE-notifiable diseases should they become present at the site.	Compliant	
Footnote Footnote Footnote	Applicability: All [103] At the time of publication of the final draf DEVELOP AND OPERATE FARMS IN A SOCIALLY R	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). - t standards, OIE-notifiable diseases relevant to salmon aquaculture was [104] This is in addition to an Social requirements in the standards shall be ESPONSIBLE MANNER 6 106] Bargain collectively: A voluntary negotiation between employers	were: Epizootic haematopoietic necrosis, Infectious haematopoietic necrosis (IHN), Infectious salmon anemia (ISA), Viral has salaris). ny notifications to regulatory bodies required under law and the OIE Aquatic Animal Health Code. [105] Within one month. audited by an individual who is a lead auditor in conformity with SAAS Procedure 200 section 3.1. 1. Freedom of association and collective bargaining [106] Compliance Criteria s and organizations of workers in order to establish the terms and conditions of employment by means of collective (writt		
6.1.1	trade unions (if they exist) and union representative(s) chosen by themselves without managerial interference Requirement: Yes Applicability: All	28.08.2018 supports this. Cermaq has national, regional and local ur	edom associations, and trade unions are a statutory right for all employees. Cermaq Norway Code of ethics dated nion representatives from different Norwegian trade unions. The representatives are choose among the employees ion was confirmed by the employees in interviews held during the audit.	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	Employee contracts were reviewed during the audits, verifying freedom of association. Cermaq Norway Code of ethics dated 28.08.2018 supports this. In Cermaq region Nordland farm operators are organized through organization Fellesforbundet. They have a regional representative elected by the members. Approximately 80% of the employees are member of a trade union. (4 of 5 employees).	Compliant	
6.1.3	Indicator: Evidence that workers are free and able to bargain collectively for their rights Requirement: Yes Applicability: All	The trade union is representing the employees for collective bargaining. Regional and national representatives are involved. All members can give their advise on union meetings which are held several times a year. Also non-members are covered by the collective bargaining. The employees are covered by the collective agreement "Havbruksovernskomsten" and regional agreements. No cases registered against the farm site management for violations of employees' freedom of association and collective bargaining rights. The information was confirmed by the employees in interviews held during the audit.	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]	0 incidents of child labor. Minimum age for working is 15 years. Cermaq Norway Code of ethics dated 28.08.2018 supports this, and child labor is prohibited in Cermaq. Employee registers and contract can be used for verification. The information was confirmed by the employees in interviews held during the audit.	Compliant	
Footnote	[107] Child: Any person under 15 ye	ars of age. A higher age would apply if the minimum age law of an area stipulates a higher age for work or mandatory schooling. Minimum age may be 14 if the country allows it under the de	eveloping countr	ry 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.		
622	Indicator: Percentage of young workers [109] that are protected [110] Requirement: 100%	100% of young workers are protected. Young workers are employed on site in relation to education and apprenticeships. Regulations and procedure "Young workers" ID 147 rev. 12, 2017-05-30 related to young workers are implemented. This is compliant with the standard requirements. Age can be checked on ID's and staff records. Site has one young worker, an apprentice. During audit it was controlled that procedure was followed for introduction, training, follow-up and contracts for this worker. The information was also confirmed by the employees in interviews held during the audit.	Compliant	
	Applicability: All			
Footnote	Applicability: All	[109] Young Worker: Any worker between the age of a child, as defined above, and under the age of 18.		
		[109] Young Worker: Any worker between the age of a child, as defined above, and under the age of 18. 5 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 so	chool time, and v	work time shall not exceed 10 hours.
Footnote				work time shall not exceed 10 hours.

	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	No incidents of forced or compulsory labor. Cermaq Norway Code of ethics dated 28.08.2018 supports this. Verification performed during interviews with employees, and review of work contracts and pay slips.	Compliant					
Footnote	[113] Forced (Compulsory) labor: All work or serv	punishment, or the loss of rights and privileges or restriction of movement (e.g., withholding of identity documents).	yment of debt.	"Penalty" can imply monetary sanctions, physical				
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	1					
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 mer discriminatory. Positive discrimination in favor of people from certain underrepresented groups may be legal in some countries.	it- or performar	ice-based pay increase or bonus is not by itself				
6.4.1	Indicator: Evidence of comprehensive [116] and proactive anti-discrimination policies, procedures and practices Requirement: Yes Applicability: All	Anti discrimination policy is included as part of Cermaq Norway Code of ethics dated 28.08.2018 and Whistle blowing procedure (2017-08-16). Whistle Blowing reporting on: https://www.cermaq.com/wps/wcm/connect/cermaq/Contact-us/whistleblowing/whistleblowing. This can be performed anonymous. Managers have received training and education to ensure anti-discrimination in all parts of the organization. All employees have received internal training in Anti- discrimination and equality. The information was confirmed by the employees in interviews held during the audit.	Compliant					
Footnote	[116] Employers shall have written anti-discrin	nination 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, castegorial union membership, political affiliation, age or any other condition that may give rise to discrimination.	, national origin	religion, disability, gender, sexual orientation,				
6.4.2	Indicator: Number of incidences of discrimination Requirement: None Applicability: All	No incidents registered. The rights of employees are respected. During interview no discrimination cases were reported. The information was confirmed by the employees in interviews held during the audit.	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	All health and safety related policies are displayed on site. Dated 26.05.2020. Risk assessments including H&S factors are updated annually. Emergency preparedness plan (Beredskapsplan Cermaq Norway Rev 6 9/12 2019 doc 1154) and Alarm plans are displayed in all vessels, barges and landbases. Alarm plan was updated 24.08.2020. Procedures are available for all employees on Intelex QMS system. Annual training are performed within H&S, fire, evacuation and first aid. Training logs and certificates were reviewed for employees during audit, on system Intelex Kompetansestyring. The information was confirmed by the employees in interviews held during the audit. It was documented that the site had performed fire rehearsal, first aid rehearsal and emergency evacuation rehearsal in 2020.	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 required PPE 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 CO2 gas cylinder changed anually. d) Interview with employees confirms PPE management, training and maintenance of PPE is implemented in the organization NC-01 -Finding at audit site inspection Langøyhovden 21.10.2020: Eye shower on workshop onboard barge "Pondus" expired in June 2020. NC is graded minor, as system for health and safety risk assessments and actions are implemented and in control. The NC does not compromize the integrity of the standard. Reply from Cermaq: Root cause: Breach on procedure. This should have been checked at the safety inspection. Corrective: The eye-shower was immediately replaced. Auditor response: Documented evidence as picture of replaced bottle of eye shower mounted in workshop was sent to auditor. Reviewed by auditor. Corrective actions accepted. NC closed 03-11-2020. Auditor Lars Erik Flatøy	Minor	NC-01 First aid equipment with expired use date - eye shower bottle in barge workshop.				

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 Langøyhovden the following risk assessments dated 14.08.2019 has been performed: Health and safety, Fish health, Fish welfare, Food Safety, Food Treats, Escapes and Environment 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 Langøyhovden 22.11.2019 seen. All findings 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 14.08.2019, ref 6.5.2 a) The safe job analysis is done prior to all imagior 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. For indicator 6.5.3.2 different NC's are raised to make it easier to identify, as there were 2 different root causes. One related to lack of control of work equipment, the other related to lack of identification of emergency exits: NC-02 - Emergency exit to the right when leaving Office and restroom quarters in bargewas partly blocked by feed bags. Another exit to the left was clear, but it missed an illuminated emergency exit sign. In case of evacuation in smoke or darkness it would be hard to find the exit. NC is graded minor, as system for health and safety risk assessments and actions are implemented and in control. The NC does not compromize the integrity of the standard. NC-02 Acution response: Documented evidence as picture of cleared area in front of emergency entrance, and marking of second entrance with illuminated emergency exit s	Minor	NC-02- Unsuffcient indentification of emergency exit NC-03 - Expired certification on lifting equipment
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	QMS system Intelex has a separate module for registration and handling of incidents, including personal injuries and near misses. Root cause analysis and investigation methods are included. Incident log was reviewed by auditor, and interviews of site managers and employees confirmed both that the organization had implemented procedures for incident handling and investigation, that these were followed, and that HSE Manager onshore was used as support. All interviewed had received training in use of system, was able to show how register in the system, and had used the last 3 months. Monthly HSE reports are issued by HSE department each month with overview of incidents an corrective actions. Site specific HSE meetings (Local safety committee) are held monthly with all employees. All reported incidents and monthly HSE report are reviewed, including follow-up of corrective and preventive actions. Minutes of Meeting from last meeting 17.08.2020 was reviewed during audit. Seen log from all meetings held in 2020 (monthly).	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		Compliant	

6.5.6	Indicator: Evidence that all diving operations are conducted by divers who are certified Requirement: Yes	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. Organization does not use diving services. Last time was in 2019. ROV are used for inspection and control of nets. If divers are used supplier delivers a report for each diving operation which includes diver documentation (certificates and health certificates. In addition Cermaq complete an internal checklist for each diver operation.	Compliant		
		Criterion 6.6 Wages			
6.6.1		Zero below basic wages, according to national and local collective agreement. HR system Auditor is used for maintenance and monitoring. Records and pay slips reviewed by auditor during audit. All information according to requirements.	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		The organization have performed an assessment of cost of living were conducted. Reference is made to Norwegian Livsoppholdssatser - Statens innkrevingssentral 1. juli 2019. Calculation and comparison with Cermaq wages are 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. The calculation proves that wages exceed basic needs wage. Calculation was presented to auditor during audit	Compliant		
Footnote	[120] Basic needs v	vage: A wage that covers the basic needs of an individual or family, including housing, food and transport. This concept differs from a minimum wage, which is set by law and may or may not	cover the basic	needs of workers.	
6.6.3	Requirement: Yes	Wage settings are based on national union and trade organizations agreements. For farming activities the collective agreement is "Havbruksovernskomsten". Cermaq and organizations union representatives maintain a local collective agreement. All employees can provide input prior to negotiations. All employee contract states wages and benefits, and pay slips provide detailed information. All salary is paid by bank transfer on an agreed date. During audit contracts and pay slips were reviewed, and employees interviewed. All information according to requirements.	Compliant		
Footnote		[121] Payments shall be rendered to workers in a convenient manner.			

	Criterion 6.7 Contracts (labor) including subcontracting							
		Compliance Criteria	Ι					
6.7.1	Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All	In general contracts are available, and records maintained in system - Aditro HR system. Contracts where reviewed for all employees at site. NC-04: During employee interviewes, and review of contracts it was discovered that the contract for temporery employee at site was expired. Last available contract, signed 1.06.2020 was valid for the period 19.06.2020 - 31.08.2020. A contract for the current period was not available, and the employye had been working without a valid contract since 31.08.2020. This is stated to be caused by a misunderstanding between Site manager and HR, and through review of emails during audit this was verified to be the case. NC is graded minor, as system for contracts and employee documentation are implemented and in control. The NC does not compromize the integrity of the standard. Cermaq response: Root cause: A miscommunication between HR and site manager about when the contract needed updating. Contracts for temporary employees can often be for short periods and therefore difficult for the site manager to keep track of. Corrective: Contract for temporary employee expired. The site manager has been in contact with HR to get notifications through the HR system Adritro when contracts needs renewinging. This is usually standard settings, but for some reason the temp was not in the system. It is now fixed and the contract is signed by both manager and employee. Auditor response: Documented evidence as copy of signed contract was sent to auditor. Contract signed 22.10.2020 Reviewed by auditor. In addition auditor witnessed the discussions of root cause and planning of corrective actions during audit. Corrective actions accepted. NC closed 03-11-2020. Auditor Lars Erik Flatøy	Minor	NC-04 Contract for temporary employee expired.				
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	Cermaq has implemented a Code of conduct for supplier and supplier behavior, last dated January 2017. This includes requirements and compliance level related to National laws, human rights, employee rights, HSE, Anti-corruption, Environment, Food safety, quality and management systems, which need to be followed to become a Cermaq supplier. All suppliers are assessed and qualified according to "Prosedyre for klassifisering av leverandører", doc 644, dated 12.07.2019. This is followed by supplier classification risk assessment. Supplier classified as critical needs to be reviewed to become approved. Supplier audits can be used as tool. A list of approved suppliers are maintained Sustainability manager is responsible in general. Each department manager is responsible for suppliers under their jurisdiction. Supplier list and supplier audit plan 2020 was reviewed during audit.	Compliant					
		Criterion 6.8 Conflict resolution						
6.8.1	Indicator: Evidence of worker access to effective, fair and confidential grievance procedures Requirement: Yes Applicability: All	Cermaq Norway Code of ethics dated 28.08.2018. Procedure for 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. HR department have a detailed process to follow, and awareness training and information is provided as part of the Cermaq instruction course, and during annual meetings with all employees. Interviews with employees confirmed knowledge about process, and how to report both anonymous and by name.	Compliant					

6.8.2	Indicator: Percentage of grievances handled that are addressed [123] within a 90-day timeframe Requirement: 100% Applicability: All	All incidents are addressed within the 90 day time frame. Internal procedure has a shorter time line. Organization has record of both anonymous and named cases which are raised, and conformity can be proven. The information was confirmed by the employees in interviews held during the audit.	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	1	I	
	1	Compliance criteria			
	Indicator: Incidences of excessive or abusive disciplinary actions Requirement: None Applicability: All	No incidents of excessive or abusive disciplinary actions are registered. No such incidents handled by HR department. The information was confirmed by the employees in interviews held during the audit.	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.			
	Indicator: Evidence of a functioning disciplinary action policy whose aim is to improve the worker [125] Requirement: Yes Applicability: All	Disciplinary policy is defined in Cermaq Personal handbook, and is available on intranet Casa. The verbal and written disciplinary warnings may be used in case of misbehavior during the work. At site no warning is issued, but in the region the process has been used several time during last year, and documentation of the process is maintained. In interviews during audit employees confirmed understanding and fairness of disciplinary policy.	Compliant		
Footnote	[125] If disciplinary action is required, progr	essive 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 parbitrarily. Fines or basic wage deductions shall not be acceptable disciplinary practices.	romotions are	clearly stated and understood,	and not used
		Criterion 6.10 Working hours and overtime	1	I	
	Indicator: Incidences, violations or abuse of	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).			
6.10.1	working hours and overtime laws [126] Requirement: None Applicability: All	Working hours, use of overtime, rotational work and compensation is managed according to Norwegian law - Arbeidsmiljøloven, and defined in employee contract, collective agreements and personal handbook. Resource management system Capitech is used for registration, management and monitoring of hours. Payroll is generated based on registrations in Capitech. During audit employee contracts an pay slips were reviewed for selected employees, and the persons were interviewed. They confirmed compliance with regulations related to working hours. [126] In cases where local legislation on working hours and overtime exceed internationally accepted recommendations (48 regular hours, 12 hours overtime), the international standards	Compliant		

	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]	Interviews with employees and review of their pay slips was conducted during audit. It was verified that use of overtime compliant with standard requirements. Overtime was paid at premium rate.	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	ı	1		
	T	Compliance criteria				
	nealth and safety procedures	Procedures for training related to fish welfare, HSE and Hygiene, and several more subjects are implemented, and distributed in Intelex. Organization performs mandatory introduction and training of all farm workers in a broad specter of subjects including: Fish welfare, H&S introduction, assistant fish health, lice counting, escape prevention, food safety and hygiene. Records and certificates is available on Intelex kompetansestyring, and was reviewed by auditor for selected employees.	Compliant			
		Criterion 6.12 Corporate policies for social responsibility				
		Compliance criteria				
6.12.1	Requirement: Yes	Company level policies are developed by senior management, implemented and communicated to all employees through introductions, regular meetings, intranet Casa and displayed on site. In addition all procedures are distributed on Intelex QMS. For site the following policies were displayed: Cermaq Code of Ethics, Cermaq Core Values, Work environment policy, Quality Policy, Environmental Policy, Food safety policy, and Social Policy. In addition Hygiene rules, Alarm plan and emergency preparedness plan were displayed. Compliance with 6.1 - 6.12 verified by review of policies.	Compliant			
Footnote	tnote [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.					

DDINCIDIE 7	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 /	: BE A GOOD NEIGHBOR AND CONSCIENTIOUS CIT	Criterion 7.1 Community engagement					
		Compliance Criteria					
	Indicator: Evidence of regular and meaningful [130] consultation and engagement with community representatives and organizations Requirement: Yes Applicability: All	An minor NC wasd raised on principle 7.1.1 during surveillance 2 audit. This is closed. Stakeholder meeting was planned 29.04.2020, but due to Corona all stakeholder meetings has been cancelled so far in 2020. As a substitute a Newsletter has been made and issued to all relevant stakeholders. Email list to receivers seen. Newsletter dated 07.04.2020 by sustainability coordinator. A new stakeholder meeting is scheduled to 27.11.2020 on Landbase Sandset. The farm has a good relation and cooperation with neighbors and other parties operating in the area, such local fishermen. No complaints have been raised or registered. Confirmed by employees during audit. Last meeting for sites in Vesterålen held at landbase Sandset 05.10.2017. Minutes of Meeting from meeting seen. 20 persons 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. VR-225 applies	Compliant				
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 Imp	pact Assessmen	nt 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	The communication plan for Cermaq Norway includes external communication and stakeholders. Handling of media officials and external parties are described. Procedure handling of external complaints are included. Responsible for handling is Sustainability manager and CEO. Complaints could be delivered via company e-mail, company workers or whistle blowing channel https://www.cermaq.com/wps/wcm/connect/cermaq-no/kontakt-oss/varsling/ For registering and follow-up the non-conformity system Intelex is used. There are no registration of complaints at farm level. Confirmed by employees during audit. 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 interviews 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	The procedure for using therapeutics ID 191, dated 05.04.2018 gives a description on how to ensure visible notice, and in which periods it is required. The procedures is known to site employees, and they confirmed that a signed stating "Medisinering pågår" is used in treatment and withholding periods.	Compliant				
Footnote		[132] Signage shall be visible to mariners and, for example, to fishermen passing by the farm.					
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		Criterion 7.2 Respect for indigenous and aboriginal cultures and traditional territories		
		Compliance Criteria		
territorial b The inten	oundaries of indigenous groups have a defined leg	Instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of Indigenous Groups sectful of the traditional territories of indigenous groups. The Indicators listed under Criterion 7.2 were designed to fulfill this purpose in a manner consistent with the United Nations Declara al 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 you to establish whether the farm is operating in close proximity to indigenous groups. Here ASC provides the following guidance. In 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 in sare 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 identife farm's impacts. Continued consultations between farm and neighbors should create a forum where any key issue can be discussed and resolved.	ligenous territories are undefined or unknow t than understanding whether the farm is ha	vn, there is no simple aving a detrimental
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	Compliant	
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	Compliant	
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	Compliant	
Footnote	[134] To demonstrate an active pr	ocess, a farm must show ongoing efforts to communicate with indigenous communities, an understanding of key community concerns and responsiveness to key community concerns through	igh adaptive farm management and other a	ctions.

	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		resources that are vital for community are impacted by the site. This is verified by government during the application to get the license to start the site. The community approval for iewing potential restricting access to vital resources was done during operation application processing to start the sites.					
Footnote	[135] Vital community resources can include fro	eshwater, land or other natural resources that communities rely on fo	or their livelihood. If a farm site were to block, for example, a community's sole access point to a needed freshwater resou	urce, this would	be unacceptable under the Dia	alogue standard.		
7.3.2	Indicator: Evidence of assessments of company's impact on access to resources Requirement: Yes Applicability: All Indicator: Evidence of assessments of company's impact on access to resources 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. Stakeholder communication and meetings are used to corroborate the accuracy of conclusions in site impact assessments. No interviews considered necessary to perform for audit of site.							
A farm se	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] [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			Compliant	
			Standards related to Principle 2		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
		Note: If the smolt facility has previously undertaken an independent documents as evidence to demonstrate compliance with Indicator 8	assessment of biodiversity impact (e.g. as part of the regulatory permitting process), the farm may obtain and use such as long as all components are covered.		
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	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 assessment dated on 09.05.2019. includes associated risks related to animals, escapes, environments, sea floor.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 moderate.	Compliant	
	Applicability: All Smolt Producers	b. Obtain from the smolt supplier(s) a declaration confirming they have developed and are implementing a plan to address potential impacts identified in the assessment.			

	release into the environment per metric ton (mt) of fish produced o "mass balance" approach. Detailed instructions and formulas are given	the requirement of indicator 8.4. This specifies the maximum amount of phosphorus that a smolt production facility can over a 12-month period. The requirement is set at 4 kg/mt. The calculation of total phosphorus released is made using a ven in Appendix VIII-1. Thosphorus in the form of sludge provided there is evidence to show: The removed from site over the relevant time period; The red sludge by sampling and analyzing representative batches; and		
	a. Obtain records from smolt suppliers showing amount and type of feeds used for smolt production during the past 12 months.	f		
Indicator: Maximum total amount of	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).	a) Production reports and records in Fish Talk - Hopen: 230554 kg feed for period 1/1 - 31/12-2019 (Source a-g Fosfor calculation 1.1-31.1-2019 Cermaq Hopen)		
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	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.	b) Declaration per feed type and particle size form 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		
Applicability: All Smolt Producers	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.		Compliant	13,74 ref VR
	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) NA		
	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):		
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 8.5 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.		N/A	
Footnote [137] Exceptions shall be made for production	n systems that use 100 percent sterile fish or systems that demonstrat	te separation from the wild by effective physical barriers that are in place and well-maintained to ensure no escapes of re subsequently reproduce.	ared specimer	ns or biological material that might survive and

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]	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	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 overview (www.F.Dir.no) b) No incident reported. Verified by Fisheries Directorate escape incidents overview (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 overview (www.F.Dir.no)	Compliant	0
Footnote		[138] Farms shall report all es	capes; the total aggregated number of escapees per production cycle must be less than 300 fish.		
Footnote	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	e of the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard to predict the events that caused the episode. Extreme weather (e.g., 100-year storms) or accidents caused by farms local 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/registration 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 authorized service provider Iris on special waste 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	
		Note: see instructions for Indicator 4.6.1.			
	by source (fuel, electricity) at the supplier's facility throughout early ear. b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year. 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. Requirement: Yes, measured in kilojoule/mt fish/production cycle d. Confirm that the smolt supplier used results from 8.9b and 8.9 to calculate energy consumption on the supplier's facility as required and that the units are reported as kilojoule/mt fish/production cycle.	b. Confirm that the smolt supplier calculates total energy			
8.9			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	Compliant	34075350 kJ/Mt
		c) Hopen: 221,66 mt BM produced d) Hopen: 34075350 kJ/Mt BM produced e) Records OK in excel. Continuous evaluation.	·		
		· · · · · · · · · · · · · · · · · · ·			

		Note: see instructions for Indicator 4.6.2.				
		a. Obtain records of greenhouse gas emissions from the smolt supplier's facility.				
	Indicator: Records of greenhouse gas (GHG	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.	a) Records OK (Energibruk settefisk Cermaq Hopen YTD19)			
8.10	 [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 	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.	b) Hopen: Seen for 2017-2019. 2019 Scope 1 on farm generated 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) Calculations and assessment provided by CO2 focus. Data from IEA 2013, SSB 2013, IPCC 2006.	Compliant		533267,88Kg CO2
		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) Calculations and assessment provided by CO2 focus. Data from IEA 2013, SSB 2013, EIA 2011, IPCC 2006.			
		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 purpos	ses of this standard, GHGs are defined as the six gases listed in the Ky	oto Protocol: carbon dioxide (CO_2); methane (CH_4); nitrous oxide ($N2O$); hydrofluorocarbons (HFCs); perfluorocarbons (PF	Cs); and sulph	ur hexafluoride (SF ₆).	
Footnote		[142] GHG emissions mu	ist 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	a fish health broved by the designated entification and monitoring of fish disease and parasites. asses and parasites	a, b) Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures.	Compliant		
	Requirement: Yes Applicability: All Smolt Producers	b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's designated veterinarian.	Approved and signed by veterinarian (fish health manager) dt 26.08.2019 .			

	Indicator: Percentage of fish that are vaccinated for selected diseases that are known to present a significant risk in the region and for which an effective vaccine exists [143] Requirement: 100% Applicability: All Smolt Producers	 b. Maintain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence. c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received. 		Compliant	100%
Footnote	[143] The farm's designated veterinarian is resp	onsible for undertaking and providing written documentation of the a	analysis of the diseases that pose a risk in the region and the vaccines that are effective. The veterinarian shall determine this decision is consistent with the analysis.	which vaccinat	ions to use and demonstrate to the auditor that
	Indicator: Percentage of smolt groups [144] tested for select diseases of regional concern	The designated veterinarian to the smolt supplier is required to evaluate carrier state in fresh water is deemed to have	Instruction to Clients for Indicator 8.13 Testing of Smolt for Select Diseases iseases of regional concern for which each smolt group should be tested. The list of diseases shall include diseases that or seawater (and for which seawater fish-to-fish transmission is a concern). In the concern for which each smolt group should be tested. The list of diseases shall include diseases that or seawater (and for which seawater fish-to-fish transmission is a concern). In the concern for which each smolt group is a concern for which diseases should be tested for. This analysis shall be a negative impact on the grow-out phase, thereby disqualifying a smolt group from being transferred. The analysis must be a population that shares disease risk, including environment, husbandry, and host factors that might contribute to sharing the contribute to	ll include an eva st be available t	aluation of whether clinical disease or a pathogen to the CAB upon request.
8.13	Applicability: All Smolt Producers by so	by scientific unarysis as described in the instruction above.	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. Screening programme incl. Broodfish.	Compliant	100%
			b) All smolt groups are tested. Veterinary visits according to VHP. Smolt group health certificate. Patogen analyze, tested for PRV and ILA, IPN, PRV, PMCV pre-stocking. No positive	23	
Footnote	concern) but originating in freshwater should be	be on the list of diseases tested. The designated veterinarian to the sr	at might contribute to sharing disease agents for each group. Only diseases that are proven, or suspected, as occurring in molt farm is required to evaluate, based on scientific criteria and publicly available information, which diseases should be impact on the grow-out phase, thereby disqualifying a smolt group from being transferred. A written analysis must be available information.	tested for. This	analysis shall include an evaluation of whether

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 veterinary / FHB/ Vaccines produced by Pharmaq. Therapeutant used and documented on fish group.	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 st	andard, 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 identified. b) No AB used. Seen fish CV with all treatments identified.	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	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			nportant 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	y a portion of the pens on a farm site, fish from pens that did not receive treatment are still eligible for certification.		
			Note: see instructions for Indicator 5.4.3 regarding evidence of compliance with the OIE Aquatic Animal Health Code.		
8.18	Indicator: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150] Requirement: Yes Applicability: All Smolt Producers	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). 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.	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	
Footnote			iting guidance. For purposes of this standard, this includes an aggressive response to detection of an exotic OIE-notifiable of OIE for the specific pathogen. Exotic signifies not previously found in the area or had been fully eradicated (area declared)		ating the infected
Footnote		[150] OII	E 2011. Aquatic Animal Health Code. http://www.oie.int/index.php?id=171.		
		Compliance Criteria (Required Client Actions):	Standards related to Principle 6 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. 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.	a) The internal Smolt supplier used: company documents apply. b) Statements from suppliers were seen. No inspection on labor issues.	Compliant	

			Standards related to Principle 7		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	Indicator: Evidence of regular consultation and engagement with community representatives	with an equivalent requirement. Farms are obligated to maintain - - the	Instruction to Clients for Indicator 8.20 - Consultation and Engagement with Community Representatives engage in regular consultation and engagement with community representatives and organizations. Under Indicator 8.2 evidence that is sufficient to show their suppliers remain in full compliance. Evidence shall be documentary (e.g. meeting the smolt supplier engaged in "regular" consultations with the local community at least twice every year (bi-annually); a supplier's consultations were effective (e.g. using participatory Social Impact Assessment (pSIA) or similar methods); and onsultations included participation by elected representatives from the local community who were asked to contribute to	g agenda, minu d	
8.20	and organizations Requirement: Yes Applicability: All Smolt Producers	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 neighbors, officials and other interested parties for meeting at Site Hopen 16.11.2018. Due to Corona all stakeholder meetings has been cancelled so far in 2020. As a substitute a Newsletter has been made and issued to all relevant stakeholders. Email list to receivers seen. Newsletter dated 07.04.2020 by sustainability coordinator. With reference to Vr225 stakeholders 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) The procedure for complaints was presented, dated 09.10.2018. If any complaint is received it will be effectively addressed. No complaint has been received.	Compliant	
	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.	a) It was communicated during the application processing to start the sites. No indigenous groups or aboriginal people are present in neighborhood. No traditional and indigenous groups are involved.		
8.22		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.	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.	Compliant	

8.23	farm has undertaken proactive consultation with indigenous communities Requirement: Yes Applicability: All Smolt Producers	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 8.22 a) the requirements of 8.23. do not apply. b) No consultation is applicable. c) No traditional and indigenous groups are involved. L REQUIREMENTS FOR OPEN (NET-PEN) PRODUCTION OF SMOLT	Compliant	
			the smolt is produced in an open system, evidence shall be provided that the following are met:		
	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	
	А		UIREMENTS FOR SEMI-CLOSED AND CLOSED PRODUCTION OF SMOLTS n (flow through or recirculation) that discharges into freshwater, evidence shall be provided that the following are met [15]	57]:	
	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.			
8.25		b. Obtain water quality monitoring matrix from smolt suppliers and review for completeness.	No discharges into freshwater		
		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.			
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		N/A		
Footnote	[1	56] A single oxygen reading below 60 percent would require daily con-	tinuous monitoring with an electronic probe and recorder for at least a week demonstrating a minimum 60 percent satur	ration at all tim	es.	
Footnote			[157] See Appendix VI for transparency requirements for 8.33.			
	Indicator: Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic health that is similar or better than surveys upstream from the 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.	No discharges into freshwater			
8.27		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.				
		a. Maintain a copy of smolt supplier's biosolids (sludge) management plan and confirm that the plan addresses all requirements in Appendix VIII-2.				
8.28	Indicator: Evidence of implementation of biosolids (sludge) Best Management Practices (BMPs) (Appendix VIII-4)	b. Obtain from smolt suppliers a process flow diagram (detailed in Appendix VIII-2) showing how the farm is dealing with biosolids responsibly.	No discharges into freshwater			
	Requirement: Yes Applicability: All Smolt Producers Using Semi- Closed or Closed Production Systems	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.				

1/1

11.5 Add new rows as needed
11.6 Adjust the column wide as needed - to show the whole text

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.)

Indicator	or Grade of NC	Description of NC	Evidence	Date of Stat	us Related VR (#) Root cause (by client)	Corrective/ preventive actions proposed by UoC and accepted by CAB		Actual date of close-out	Date request for delay received	Justification for delay	Next deadline	Request evaluation by CAB	Date re
6.5.2	Minor	NC-01 First aid equipment with expired use date - eye shower bottle in barge workshop.	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 required PPE 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 CO2 gas cylinder changed anually. d) Interview with employees confirms PPE management, training and maintenance of PPE is implemented in the organization NC-01 -Finding at audit site inspection Langøyhovden 21.10.2020: Eye shower on workshop onboard barge "Pondus" expired in June 2020. NC is graded minor, as system for health and safety risk assessments and actions are implemented and in control. The NC does not compromize the integrity of the standard.	21-10-2020 Closed		· ·	First aid equipment with expired use date - eye shower bottle in barge workshop. The eye-shower was immediately replaced.	Documented evidence as picture of replaced bottle of eye shower mounted in workshop was sent to auditor. Reviewed by auditor Corrective actions accepted. NC closed 03-11-2020. Auditor Lars Erik Flatøy	03-11-2020					
6.5.3		NC-02- Unsuffcient indentification of emergency exit NC-03 - Expired certification on lifting equipment	a) The procedure for risk assessment No 366 dated 21.08.2019 is implemented. For site Langwyhowden the following risk assessments dated 14.08.2019 has been performed: Health and safety, Fish health, Fish welfare, Food Safety, Food Treats, Escapes and Environment 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 Langwyhowden 27.11.2019 seen. All findings closed. b) Employees are trained and annual refreshment trainings are organised during risk analysis. Training records are maintained, ref Intelesk Kompetansestyring. Last evaluation of the H&F risk and the training for employees took place 14.08.2019, 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 involves partisipates, including well-boat 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. For incitantor 6.5.3.2 different NC's are raised to make it easier to identify, as there were 2 different roct causes. One related to lack of control of work equipment, the other related to lack of identification of emergency exits: NCO2 - Emergency exit to the right when leaving Office and restroom quarters in bargewas parity blocked by feed bags. Another exit to the left was clear, but it missed an illuminated emergency exit sign. In case of evacuation in smoke or darkness it would be hard to find the exit. NC is graded minor, as system for health and safety risk assessments and actions are implemented and in control. The NC does not compromize the integrity of the standard. NCO2 Cermaq respons: NCO3 Cermage pages. NCO3 Cermage pages.	21-10-2020 Closed		NC-03: Lack of control of maintenance since this crane is rarely used and was therefore forgotten	indentification of emergency exit The site manager and employees agrees that this could lead to a dangerous situation. The other door is now marked with a illuminated emergency exit sign.	NC-02: Documented evidence as picture of cleared area in front of emergency enrtrance, and marking of second entrance with illuminated sign so it can be used as emergency entrance was sent to auditor. Reviewed by auditor. Corrective actions accepted. NC closed 03-11-2020. Auditor Lars Erik Flatøy NC-03 Documented evidence as picture of the sticker on the crane showing recertificatation and approva of the unit was sent to auditor. Reviewed by auditor Corrective actions accepted. NC closed 03-11-2020. Auditor Lars Erik Flatøy						
6.7.1		NC-04 Contract for temporary employee expired.	In general contracts are available, and records maintained in system - Aditro HR system. Contracts where reviewed for all employees at site. NC-04: During employee interviewes, and review of contracts it was discovered that the contract for temporery employee at site was expired. Last available contract, signed 1.06.2020 was valid for the period 19.06.2020 - 31.08.2020. A contract for the current period was not available, and the employye had been working without a valid contract since 31.08.2020. This is stated to be caused by a misunderstanding between Site manager and HR, and through review of emails during audit this was verified to be the case. NC is graded minor, as system for contracts and employee documentation are implemented and in control. The NC does not compromize the integrity of the standard. Cermaq response: Root cause: A miscommunication between HR and site manager about when the contract needed updating. Contracts for temporary employees can often be for short periods and therefore difficult for the site manager to keep track of. Corrective: Contract for temporary employee expired. The site manager has been in contact with HR to get notifications through the HR system Adritro when contracts needs renewinging. This is usually standard settings, but for some reason the temp was not in the system. It is now fixed and the contract is signed by both manager and employee. Auditor response: Documented evidence as copy of signed contract was sent to auditor. Contract signed 22.10.2020 Reviewed by auditor. In addition auditor witnessed the discussions of root cause and planning of corrective actions during audit. Corrective actions accepted. NC closed 03-11-2020. Auditor Lars Erik Flatøy	21-10-2020 Closed		manager about when the contract needed updating. Contracts for temporary employees car often be for short periods and therefore difficult for	The site manager has been in contact with HR to get notifications through the HR system Adritro when contracts needs renewinging. This is usually standard settings, but for some reason the temp was not in the system. It is now fixed and the contract is signed by both manager and employee.	Documented evidence as copy of signed contract was sent to auditor. Contract signed 22.10.2020 Reviewed by auditor. In addition auditor witnessed the discussions of root cause and planning of corrective action during audit. Corrective actions accepted. NC closed 03-11-2020. Auditor Lars Erik Flatøy	03-11-2020					

Summary of findings - ASC Salmon Standard



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.
	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 Salmon Standard audit.	N/A
	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 sea farm to the slaughterhouse at the time, only.



10.3					
10.3	The possibility of subcontractors being used to handle, transport, store, or process certified products.	Subcontractors are used in the transshipment of salmon from site to waiting cage/harvest plant.	Contractors are used for transhipment of salmon to the slaughterhouse. Risk of product mixing or being substituted during transhipment by contracted well boats is low. 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 Intelex 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		

Subcontracted by client

Reason(s)

10.4.a Total number of sites owned/subcontracted by client producing the same species that is included in the scope of certification

> Number of sites included in the unit of certification

33	
1	

Owned by client

Site name(s)

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

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

0

10.5 Detail description of the flow of certified product | The site has a robust and well implemented quality system, which covers the whole organization from smolt to finished slaughtered fish. The site is certified according to GLOBALG.A.P in the whole production chain as part of Cermag Norway.

> 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 plant is; Cermag Norway avd Slakteri Steigen, Bogøyveien 153, 8288 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.
·	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, 4 minor NCs were found on indicators 6,5,2, 6.5.3 and 6,7,1. For indicator 6.5.3 there were raised 2 different NC's to make it easier to identify, as there wer 2 different root causes. One related to lack of control of work equipment, the other related to lack of identification of emergency exits.

VRs used during audit:

- VR nr.39 approved 15.09.2014 by ASC on phosphorus release from smolt producer.
- Q&A97_Salmon_v1.3_5.2.6 Weighted Number of Medicinal Treatments (WRTM) values for EL and GL for different regions
- 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.
- VR227_Salmon_v1.0_3.1.7 New sea lice limit 0.2 in sensitive periods
- Q&A 111 indicator 5.2.10 is not yet applicable.

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

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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)	
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:	

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13.4.1 The date of issue and date of expiry of the certificate.	Issue date: 04-01-2021 Expiry date: 03-01-2024
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	Stakeholders are welcome to contact Bureau Veritas on E-mail: asc.farm@bureauveritas.com. Information on Bureau Veritas complaints procedure is
the CAB decision are to be	available on www.bureauveritas.dk.
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.	
complaints can be found.	
Surveillence	

14.1 Next planned Surveillance				
14.1.1 Planned date	nov-21			
14.1.2 Planned site	Langøyhovden			
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				
type)				

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