

Form 3 - Public Disclosure Form

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

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

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

This form should be translated into local languages when appropriate

PDF 1.1 Name of CAB DNV GL PDF 1.2 Date of Submission O7.12.2017 PDF 1.3 CAB Contact Person PDF 1.3.1 Name of Contact Person PDF 1.3.2 Position in the CAB's organization Lead Auditor



| PDF 1.3.3 Mailing address | |
|---|------------------------------------|
| PDF 1.3.4 Email address | jan.petter.kosmo@dnvgl.com |
| PDF 1.3.5 Phone number | +47 957 48 769 |
| PDF 1.3.6 Other | |
| PDF 1.4 ASC Name of Client | |
| PDF 1.4.1 Name of Company | |
| | Nova Sea AS |
| PDF 1.4.2 Name of Contact Person | Sabine Fossmo |
| PDF 1.4.3 Position in the client's organization | Quality manager |
| PDF 1.4.4 Mailing address | Nova Sea AS 8764 LOVUND, NORWAY |
| PDF 1.4.5 Email address | sabine.fossmo@novasea.no |

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



| PFD 1.4.6 Phone number | +47 976 89 537 |
|-------------------------------|-----------------------|
| PDF 1.4.7 Other | Phone +47 75 09 19 00 |
| PDF 1.5 Unit of Certification | |
| PDF 1.5.1 Single Site | Single site |
| PDF 1.5.2 Multi-site | |

PDF 1.6 Sites to be audited

PDF 1.5.3 Group certification

| Site Name | GPS Coordinates | Other Location Information | Planned Site Audit(s) | Date of planned audit |
|-----------|-------------------------|--|-----------------------|-----------------------|
| Renga | 66o35.253N / 13o05.816E | North Norway, Nordland County, Rødøy Municipality. Receiving water body: Rødøyfjorden. | IA | Week 5-6 in 2018 |
| | | | | |
| | | | | |
| | | | | |

PDF 1.7 Species and Standards

| Standard | Species (scientific name) | Included in scope | ASC endorsed | Version Number | |
|----------|---------------------------|-------------------|--------------|---------------------|----------------|
| | Standard | produced | (Yes/No) | standard to be used | version Number |



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

| Name/organization | Relevance for this audit | How to involve this stakeholder (in- person/phone interview/input submission) | When stakeholder may be contacted | How this stakeholder will be contacted |
|------------------------------|--------------------------|---|---|--|
| Mattilsynet | Authorities | Written notifications with request for submissions, and if needed telephone | Before audit and when draft report is published | Written notifications |
| Nordland Fylkeskommune | Local authorities | Written notifications with request for submissions, and if needed telephone | Before audit and when draft report is published | Written notifications |
| Kystverket | Authorities | Written notifications with request for submissions, and if needed telephone | Before audit and when draft report is published | Written notifications |
| Fiskeridirektoratet | Authorities | Written notifications with request for submissions, and if needed telephone | Before audit and when draft report is published | Written notifications |
| Fylkesmannen i Nordland | Local authorities | Written notifications with request for submissions, and if needed telephone | Before audit and when draft report is published | Written notifications |
| Nordland Fylkes Fiskarlag | Fishermen organization | Written notifications with request for submissions, and if needed telephone | Before audit and when draft report is published | Written notifications |



| Rødøy Distriktsfiskarlag | Fishermen organization | Written notifications with request for submissions, and if needed telephone | Before audit and when draft report is published | Written notifications |
|--------------------------|------------------------|---|---|--------------------------|
| Rødøy Kommune | Local authorities | Written notifications with request for submissions, and if needed telephone | Before audit and when draft report is published | Written notifications |
| Klokkergården | Tourist centre | Written notifications with request for submissions, and if needed telephone | Before audit and when draft report is published | Written notifications |
| | | | | |

PDF 1.9 Proposed Timeline

| PDF 1.9.1 | Contract Signed: | 27.10.2017 |
|-----------|-----------------------------|---|
| PDF 1.9.2 | Start of audit: | 29.01.2018 |
| PDF 1.9.3 | Onsite Audit(s): | Week 5-6 in 2018 |
| PDF 1.9.4 | Determination/ Decision: | The final certification decision has been taken after needed activities, as per ASC Farm Certification and Accreditation Requirements version 2.1 August 2017. • Compliant and thus certified. |



PDF 1.10 Audit Team

| | Column1 | Name | ASC Registration Reference |
|------------|-------------------|----------------------|----------------------------|
| PDF 1.10.1 | Lead Auditor | Jan Petter Kosmo | |
| PDF 1.10.2 | Technical Experts | Kjell Roar Bekkevold | |
| | | | |
| | | | |
| | | | |
| | | | |
| PDF 1.10.3 | Social Auditor | Darius Pamakstys | |



ASC Audit Report - Opening

General Requirements

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

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

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

C5 Reporting Deadlines* for surveillance audit reports

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

1 Title Page

3 Glossary

| 1.1 Name of Applicant | Nova Sea AS |
|---|---|
| 1.2 Report Title [e.g. Public Certification Report] | ASC Initial audit, draft report |
| 1.3 CAB name | DNV GL |
| 1.4 Name of Lead Auditor | Jan Petter Kosmo |
| 1.5 Names and positions of report authors and reviewers | Jan Petter Kosmo - lead auditor, author of report Darius Pamakstys - social auditor Kjell Roar Bekkevold - lead auditor, reviewer |
| 1.6 Client's Contact person: Name and Title | |
| 1.7 Date | 09.04.2018 |
| 2 Table of Contents | |
| | |



Terms and abbreviations that are specific to this audit report and that are not otherwise defined in the ASC glossary

1) MOM-B and MOM-C are surveys of benthic environment at or near farm, according to NS 9410 (Norwegian Standard 9410). 2) NFSA is Norwegian Food safety Authority. 3) ISA is Infectious salmon anemia virus. 4) BNW is basic need wage. 5) VR is variation request. 5) FHP is Fish health plan. 6) CV is "curriculum vitae" for a fish group. 7) IK is internal control system. 7) NINA is Norwegian institute for Nature Research. 9) IMR is Institute of Marine Research. 10) PD is Pancreas Disease. 11) VHP is Veterinary Health Plan. 12) HMS is HSE (Health, Safety and Environment). 13) H&S is Health and Safety. 14) PPE is Personal Protective Equipment. 15) OHS is Occupational Health and Safety.

4 Summary

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

| 4.1 | A brief description of the scope of the audit | ASC audit of Renga 22796, a seasite |
|-------------|---|---|
| 4.2 | A brief description of the operations of the unit of certification | Production of Atlantic salmon (Salmo salar) |
| 4.3 | Type of unit of certification (select only one type of unit of certification in the list) | Single farm |
| 4.4 | Type of audit (select all the types of audit that apply in the list) | Initial audit 2018 |
| 4.5 | A summary of the major findings | Refer to report section II Audit template and IV Audit Report - Closing for NCs found during audit |
| 4.6 | The Audit determination | The Audit determination at Final report stage: Major Non conformities are closed. Corrective actions for closing or acceptance of Minor Non conformities, subject to corrective action plan for Minor Non conformities are presented and approved by DNV GL. There were no stakeholders' submissions in response to the publication of the draft report within the designated period of time, with the conclusion that certification, based on the outcome of this initial audit, is now recommended. The final certification decision has been taken after needed activities, as per ASC Farm Certification and Accreditation Requirements Version 2.1 August 2017. The organization described in section 3 of this report for the activities described in the section 3 itself is: • Compliant and thus certified |
| 5 CAB Conta | act Information | |
| 5.1 | CAB Name | DNV GL |
| | | |

6 Background on the Applicant

5.2

5.3

5.4

CAB Mailing Address

Other Contact Information

Email Address

Veritasveien 1, 1322 Høvik, Norway

jan.petter.kosmo@dnvgl.com

Phone to DNV GL +47 67 57 99 00



| 6.1 | Information on the Public Disclosure Form (Form 3) except 1.2-1.3 All information updated as necessary to reflect the audit as conducted. | Yes |
|----------------|--|---|
| 6.2 | A description of the unit of certification (for initial audit) / changes, if any (for surveillance and recertification audits) | The site is a conventional floating cage salmon farm. The production cages are floating circular cages with pointed nets. Central on the farm is a feed barge, with centralized feeding system and visual/camera control of feeding. All installations are certified according to Norwegian legislation "NS-9415 NYTEK" regulations standard. Smolts supplied by Helgeland Smolt. |
| 6.3 | Other certifications currently held by the unit of certification | |
| 6.4 | Other certification(s) obtained before this audit | |
| 6.5 | Estimated annual production volumes of the unit of certification of the <u>curren</u> t year | 2018: 3533 tons |
| 6.6 | Actual annual production volumes of the unit of certification of the <u>previous</u> year (mandatory for surveillance and recertification audits) | 2017: 0 tons |
| 6.7 | Production system(s) employed within the unit of certification (select one or more in the list) | Net cages at sea |
| 6.8 | Number of employees working at the unit of certification | 11 |
| 7.5 | ' | |
| 7 Scope 7.1 | The Standard(s) against which the audit was conducted, including version number | ASC Salmon Standard, version 1.1 April 2017 |
| 7.2 | The species produced at the applicant farm | Atlantic salmon (Salmo salar) |
| 7.3 | A description of the scope of the audit including a description of whether the unit of certification covers all production or harvest areas (i.e. ponds) managed by the operation or located at the included sites, or whether only a sub-set of these are included in the unit of certification. If only a sub-set of production or harvest areas are included in the unit of certification these shall be clearly named. | The site is a seasite with 10 cages of which all are in use for this generation. All cages were covered by the audit |



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

Fish goes directly from the seasite to the slaughterhouse.

processing, or distribution sites included in Only approved wellboats is used during transhipments of salmon between the site and holding the operation (including subcontracted cages/harvest plant.

Biosecurity legislation and implemented QMS management system and procedures at the site and within the company prevent the wellboats from visiting other salmon farms/sites without cleaning/disinfection. The possibility for mixture of salmon in holding 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 holding cage at a time in the harvest/processing plant Transports are always identifiable on production unit level (cage).

All information is kept in electronic system FishTalk and in hard copies.

7.5 Description of the receiving water body(ies).

The farm is located in the water area Rødøy - Lurøy in Nordland county. Site's receiving water-body is Rødøyfjorden (Rødøy municipality). Regional water-body authority is Nordland County. This is a sheltered coastal/fiord water area. Categorized as a sheltered coastal/fiord, of Euhaline nature (>30% salinity). Ecological quality is defined as good. Chemical condition is not defined in public documentation. Details www.vann-nett.no

The site is under voluntary ABM system. There is other salmon farming activity in the area. There are natural wild salmon populations in the area. Overview of salmon watercourses in the area are available in map tools from the Environment Agency /

Salmon Registry: http://lakseregister.fylkesmannen.no/

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. Jan Petter Kosmo, lead auditor

Darius Pamakstys, social auditor

Kjell Roar Bekkevold, technical reviewer

Onsite audit was finished 08.02.2018

Initial audit draft report sent to technical review 23.02.2018

Technical Review of Initial audit draft report were finished 25.02.2018

Initial audit draft report sent to ASC 05.03.2018

Final Report finished 09.04.2018

Technical review of Final Report finished 13.04.2018

Final report sent ASC 17.04.2018

Standard

8.2 Previous Audits (if applicable):

| NC reference | e clause reference | Closing deadline - status - closing date of each NC |
|--------------|-----------------------|---|
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8.2.1 Initial audit - mm/yyyy
Surveillance audit 1 - mm/ yyyy
Surveillance audit 2 - mm/ yyyy
Recertification audit - mm/ yyyy
Unannounced audit - mm/ yyyy
NC close-out audit - mm/ yyyy
Scope extension audit mm/ yyyy

8.4 Audit plan as implemented including:

| | | Dates | Locations |
|-------|---|--------------|---|
| 8.4.1 | Desk Reviews | | |
| | | 04.12.2018 | |
| 8.4.2 | Onsite audits | 29.01.2018 - | |
| | | 09.02.2018 | Onsite |
| 8.4.3 | Stakeholder interviews and Community meetings | 20.03.2018 | Submission from stakeholder ASC, refer to section 8.8 |
| | | | |
| 8.4.4 | Draft report sent to client | 22.02.2018 | Initial audit 2018 report |
| | | | |



8.4.5 Draft report sent to ASC

8.5.5 Final report sent to Client and ASC

| 05.03.2018 | Initial audit 2018 report |
|------------|---------------------------|
| 17.04.2018 | Initial audit 2018 report |

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

Odd Strøm - Managing director Sabine Fossmo - Quality manager Odd Stensland - Production manager sea Bjørn Olvik - Sales director

Stien Amble Advisor biology

Stian Amble - Advisor biology/quality Samuel Anderson - Environment controller

Line Holm - Quality manager Helgeland Smolt and Sundsfjord Smolt

Torleif Olaisen - HR

Kristian Pettersen - HR advisor Julie Huru - HR manager Birgitte Fjellgaard - HR advisor Viktor Arntsen - site manager Rødøy Kristin Ottesen - veterinarian HaVet

The audit was held in the company's office at Lovund, focusing on technical and legal matters, mainly, with relevant operational and administrative staff present. The second part of the audit comprised a visit to the site, covering remaining technical and administrative issues and completed the social responsibility issues. The audit was conducted as document reviews (digital and hard-copy information) as well as interviews conducted with relevant staff including site staff, typically a combination of document reviews and staff interviews. The interviews pertinent to the Social Responsibility Section of the ASC Salmon Standard were held in conditions allowing for confidentiality of the dialogues and under no constraints of free speech of the interviewees. These interviewees are not named in the report for the same reason. Demonstrations of equipment and processes took place, relevant to the scope of the audit, according to the ASC Salmon Standard v1.1 and following guidelines in the ASC Salmon Audit Manual v1.1.

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

| Name of stakeholder (if permission given to make name public) | 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 |
|---|---------------------------|-----------------|----------------------------|---|--------------------------|---------------------------------|
| ASC | | 20.03.2018 | Yes | 4.3.2 If the fishmeal / oil source of sprat does not meet the ASC standard, It would be helpful for third-party readers if you could to explain why this is not considered a serious infringement. Jan Petter Kosmo 23.03.2018: Sprat used in feed >6 months ago, this is first audit. Corrected in report. | | 23.03.2018 |
| ASC | | 20.03.2018 | Yes | 6.5.6 - Have all divers been certified? Darius Pamakstys 21.03.2018: Issue 2 points to certificates, what were in order, but the NC is for statement of conformity of diving company. I see only ordinary H&S risk and higher Social accountability risk. | | 23.03.2018 |



| | | | | 00.00.55 |
|-----|------------|-----|---|------------|
| ASC | 20.03.2018 | Yes | It would be helpful to clarify exactly when the starting point of the CoC is. From the report there is ambiguity, is the starting point at the farm gate? If | 23.03.2018 |
| | | | so, that would be fine, but if not then which chain of custody certificate is covering the wellboat? Jan Petter Kosmo 23.03.2018: As indicated in in | |
| | | | report page "ASC Audit Report – Traceability" point 10.6.3 "Products are authorized to enter an ASC Chain | |
| | | | of Custody certification at the point where the fish is moved from the wellboat/live fish carrier and delivered direct to the | |
| | | | harvest/processing plant. From this point the ASC Salmon Standard certificate stops and the ASC CoC certificate takes over." the starting point of CoC is when fish are | |
| | | | delivered to harvest plant, i.e. farmer has responsibility for wellboat. | |
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AUDIT MANUAL - ASC Salmon Standard v1.1
Scope: species belonging to the genusSalmo and Oncorhynchus

INSTRUCTION TO FARMS/AUDITORS:
This audit manual was developed to accompany version 1.1 of the ASC Salmon Standard.

| | | Criterion 1.1 Compliance with all applicable local and nation | Audit evidence 1. Write down all audit evidence for each compliance criterion (CC). Audit evidence (including | Evaluation (Per indicator, | Description of NC Provide an explanation of | Valu |
|------------------------|--|--|--|-------------------------------|---|--------------|
| | | | evidence of conformity and nonconformity) should be recorded so that the audit can be repeated by different audit team. | select one category in the | the reason(s) for the classification of any NCs or | Prov |
| | | Compliance Criteria (Required Client Actions): | Replace explanatory text in the 'Audit Evidence' column as appropriate. 3. If you see any Compliance Criteria which is not listed below, please describe also in the cells below. | drop-down menu) | non-applicability | for respe |
| | | a. Maintain digital or hard copies of applicable land and water use laws. | Quality system "Landax" with link to relevant laws, regulations and requirements in procedures. Link to applicable laws and regulations on frontpage of Landax and automatic email to quality manager if new version. | | | |
| 1.1 | Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use | b. Maintain original (or legalized copies of) lease agreements, land titles, or concession permit on file as applicable. | Discharge license from Fylkesmannen i Nordland 13.10.2014 for Renga MAB 4680 ton. License from Nordland Fylkeskommune 15.11.2015 for Bukkøya MAB 3600 ton, Renga MAB 4680 ton and Stokkasjøen MAB 4680 ton, licenses N R 0001, N R 0006, N R 0008, N R 0030, N AH0001 and N AH0002. | Compliant | | |
| | Requirement: Yes Applicability: All | c. Keep records of inspections for compliance with national and local laws and regulations (if such inspections are legally required in the country of operation). | No inspections by Directorate of Fisheries in 2017/2018. No inspections by Fylkesmannen i Nordland in 2017/2018. No inspections of NFSA in 2017/2018. | | | |
| | | d. Obtain permits and maps showing that the farm does not conflict with national preservation areas. | Not within conservation area, seen map from Norwegian Environment Agency with protected areas. Impact on the area is evaluated in permit documents and further risk assessed. | | | |
| | | 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. | Nova Sea AS registered in official register "Brønnøysundregistrene" with nr. 961056268. Authorised auditor statement for 2016 from pwc - P.E.P. 10.05.2017. | | | |
| | Indicator: Presence of documents demonstrating compliance with all tax laws | b. Maintain copies of tax laws for jurisdiction(s) where company operates. | Online access to lovdata.no with laws and regulations. | | | |
| | compiance with an tax laws Requirement: Yes Applicability: All | c. Register with national or local authorities as an "aquaculture activity". | Nova Sea AS registered in official register "Brønnøysundregistrene" with nr. 961056268. License from Nordland Fylkeskommune 15.11.2015 for Bukkøya MAB 3600 ton, Renga MAB 4680 ton and Stokkaijsen MAB 4680 ton, licenses N R 0001, N R 0006, N R 0008, N R 0030, N AH0001 and N AH0002. Operation plan ("Driftsplan") for 2018 approved by Directorate of Fisheries 10.01.2018 for sites in Nova Sea AS, includes Kahrhylla present generation 2017G (planned new generation 10.1.2019, 1, 2 million smotl), Bukøya present generation 2017G (planned new generation 15.07.2019, 10 million smotl), Benga present generation 2017G (planned new generation 15.07.2019, 13 million smotl), Benga ya N present generation 2017G (planned new generation 16.09.2018, 0,8 million smotl), and Stokkasjøen present generation 2017G (planned new generation 10.1019,1), 135 million smotl), and Stokkasjøen present generation 2017G (planned new generation 01.01.2019, 1,35 million smotl). | Compliant | | |
| | Indicator: Presence of documents demonstrating compliance with all relevant national and local labor laws and regulations | a. Maintain copies of national labor codes and laws applicable to farm (scope is restricted to the farm sites within the unit certification.) | Online access to lovdata.no with laws and regulations. | | | |
| | Requirement: Yes Applicability: All | b. Keep records of farm inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation). | No inspections by "Arbeidstilsynet" registered in present generation on site. | Compliant | | |
| | Indicator: Presence of documents demonstrating compliance with regulations and permits concerning water quality impacts | a. Obtain permits for water quality impacts where applicable. | Discharge license from Fylkesmannen i Nordland 13.10.2014 for Renga MAB 4680 ton. Operation plan ("Driftsplan") for 2018 approved by Directorate of Fisheries 10.01.2018 for sites in Nova Sea AS, includes Kalvhylla present generation 2017G (planned new generation 0.10.12.019, 1,2 million smolt), Buckeya present generation 2017G (planned new generation 50.77.2019, 1,0 million smolt), Renga present generation 2017G (planned new generation 16.07.2019, 1,3 million smolt), Rensya N present generation 2017G (planned new generation 0.10.12.2019, 1,35 million smolt). | Compliant | | |
| | Requirement: Yes Applicability: All | b. Compile list of and comply with all discharge laws or regulations. | As described in above permits. MOM-B report by AquaKompetanse September 2016, status 1. ASC survey by AquaKompetanse November 2017, 279-11-17C RENGA | Compilant | | |
| | | c. Maintain records of monitoring and compliance with discharge laws and regulations as required. | Biomass reported to government via Altinn end of each month, e.g. report for December 2017, reported per 31.12.2017 biomass 1038 tons (10 cages). Environmental reports and surveys reported to Altinn, seen MOM-B at Directorate of Fisheries website. | | | |
| | | PRINCIPLE 2: CONSERVE NATURAL HABITAT, LOCAL BIODI Criterion 2.1 Benthic biodiversity and | | | | |
| otnote | [1] Closed production systems that can demon | strate that they collect and responsibly dispose of > 75% of solid nutrients from the production | | on transparency | for 2.1.1, 2.1.2 and 2.1.3 | |
| arms loca otal numl | | tions are required under law, clients may request to modify the benthic sampling methodolog nall provide a full justification to the CAB for review. Requests for modification shall be suppo | | | | |
| shall eva | luate client requests to modify benthic methodology bas | ed on whether there is a risk that such changes would jeopardize the intent and rigor of the A ology are fully described and justified in the audit report. | SC Salmon Standard. If the CAB determines that proposed modifications are low risk, the | | | |
| | | Note: Under Indicator 2.1.1, farms can choose to measure redox potential (Option #1) or sul threshold values. | phide 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. | ASC survey by AquaKompetanse October 2017 (field work 01.11.2017), report 279-11-17C RENGA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2). | | | |
| | | b. If benthos throughout the full AZE is hard bottom, provide evidence to the CAB and request an exemption from 2.1.1c.f, 2.1.2 and 2.1.3. | Reference stations: ASC ref 1 and ASC ref 2. Stations outside AZE: ASC 3 and ASC 4. Stations inside AZE: ASC 1 and ASC 2. | | | |
| | | c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard. | Option 1 | | | |
| 2.1.1 | Indicator: Redox potential or [2] sulphide levels in sediment outside of the Allowable Zone of Effect (AZE) [3], following the sampling methodology outlined in Appendix I-1 Requirement: Redox potential > 0 mV or Sulphide ≤ 1,500 µko/i. | 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). | MOM-C not performed at peak biomass (at >75% peak biomass) last production cycle. | Minor | MOM-C not performed at peak biomass (at >75% peak biomass) last production cycle. Jan Petter Kosmo 13.03.2018: Root cause, | Mir |
| | | | | | corrective and | ı |



| | 1 | | | | Accepted | li . |
|----------|---|--|--|-----------------|---|-----------|
| | | e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing method. | Stations outside AZE: ASC 3: 29 ASC 4: 126,5 | | | |
| | | f. For option #2, measure and record sulphide concentration (µM) using an appropriate, nationally or internationally recognized testing method. | Redox potential measured according to national regulation (NS 9410:2016) | | | |
| | | g. Submit test results to ASC as per Appendix VI at least once for each production cycle. If site has hard bottom and cannot complete tests, report this to ASC. | Submitted to ASC 09.02.2018 | | | |
| Footnote | [3] Allowable Zone of Effect (AZE) is defined under t | [2] Farm sites can choose whether to use redox or sulphide. I this standard as 30 meters. For farm sites where a site-specific AZE has been defined using a r | Farms do not have to demonstrate that they meet both. Obust and credible modeling system such as the SEPA AUTODEPOMOD and verified through r | nonitoring, the | site-specific AZE shall be u | used. |
| | | Notes: | | | | |
| | | - Under Indicator 2.1.2, farms can choose one of four measurements to show compliance wi BQI (Option #3); or ITI (Option #4). Farms do not have to demonstrate that they meet all fou- -If a farm is exempt due to hard bottom benthos (see 2.1.1b), then 2.1.2 does not apply and | r threshold values. I this shall be noted in the audit report. | | | |
| | | a. Prepare a map showing the AZE (30 m or site specific) and sediment collections stations (see 2.1.1). | ASC survey by AquaKompetanse October 2017 (field work 0.1.1.2017), report 279-11-17C RENGA. Olex may with 6 sampling opins, adapted to site specific hathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2). | | | |
| | | b. Inform the CAB whether the farm chose option #1, #2, #3, or #4 to demonstrate compliance with the requirement. | #1 AZTI Marine Biotic Index used | | | |
| | | c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1). | MOM-C not performed at peak biomass (at >75% peak biomass) last production cycle. | | | |
| | Indicator: Faunal index score indicating good [4] to high ecological quality in sediment outside the AZE, following | d. For option #1, measure, calculate and record AZTI Marine Biotic Index [5] score of sediment samples using the required method. | Stations outside AZE: ASC 3: 2,92 ASC 4: 3,07 | | | |
| 2.1.2 | the sampling methodology outlined in Appendix I-1 Requirement: AZTI Marine Biotic Index (AMBI [5]) score 5-33, or Shamon-Wiener Index score > 3, or Benthic quality Index (BQI) score ≥ 15, or Indianal Trophic Index (ITI) score ≥ 25 Applicability: All farms except as noted in [1] | | #1 AZTI Marine Biotic Index used | Minor | MOM-C not performed at peak biomass (at >75% peak biomass) last production cycle. Jan Petter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted | Max. 3,07 |
| | | f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment samples using the required method. | #1 AZTI Marine Biotic Index used | | | |
| | | g. For option #4, measure, calculate and record Infaunal Trophic Index (ITI) score of sediment samples using the required method. | #1 AZTI Marine Biotic Index used | | | |
| | | h. Retain documentary evidence to show how scores were obtained. If samples were analyzed and index calculated by an independent laboratory, obtain copies of results. | Field work, sorting, specie identification and calculation according to NS-EN ISO 16665:2013/NS-EN ISI 5667-2004. Evaluation benthos according to NS 9410-2016 and guidance 02:2013. Sediment analyzed using ID-Gene sedimentary DNA bioassessment test. | | | |
| | | i. Submit faunal index scores to ASC (Appendix VI) at least once for each production cycle. | Submitted to ASC 09.02.2018 | | | |
| Footnote | [4] "Good" Ecological Quality Cla | assification: The level of diversity and abundance of invertebrate taxa is slightly outside the ra | nge associated with the type-specific conditions. Most of the sensitive taxa of the type-specific | ic communities | are present. | |
| Footnote | | [5] http://www.azti.es/en/ambi-a | | | | |
| | | a. Document appropriate sediment sample collection as for 2.1.1a and 2.1.1c, or exemption as per 2.1.1b. | ASC survey by AquaKompetanse October 2017 (field work 0.1.1.2017), report 279-11-17C RENGA, Olex may with 6 sampling points, adapted to site specific hathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2). | | | |
| | | b. For sediment samples taken within the AZE, determine abundance and taxonomic composition of macrofauna using an appropriate testing method. | Field work, sorting, specie identification and calculation according to NS-EN ISO 18665-2013/NS-EN ISI 5667-2004. Evaluation benthos according to NS 9410-2016 and guidance 02:2013. Sediment analyzed using ID-Gene sedimentary DNA bioassessment test. | | | |
| 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] | c. Identify all highly abundant taxa [6] and specify which ones (if any) are pollution indicator species. | Stations inside AZE: ASC 1: \$2 ASC 2: \$2 | Compliant | | ≥2 |
| | | d. Retain documentary evidence to show how taxa were identified and how counts were | Field work, sorting, specie identification and calculation according to NS-EN ISO 16665:2013/NS-EN ISI 5667:2004. | | | |
| | | obtained. If samples were analyzed by an independent lab, obtain copies of results. | Evaluation benthos according to NS 9410:2016 and guidance 02:2013. Sediment analyzed using ID-Gene sedimentary DNA bioassessment test. | | | |
| | | | | | | |
| Footnote | | 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 | Sediment analyzed using ID-Gene sedimentary DNA bioassessment test. Submitted to ASC 09.02.2018 | | | |
| Footnote | | 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. | Sediment analyzed using ID-Gene sedimentary DNA bioassessment test. Submitted to ASC 09.02.2018 | | | |
| Footnote | Indicator: Definition of a site-specific AZE based on a robust and credible [7] modeling system Requirement: Yes Applicability: All farms except as noted in [1] | 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. [6] Highly abundant: Greater than 100 organisms per square meter (or equal | Sediment analyzed using ID-Gene sedimentary DNA bioassessment test. Submitted to ASC 09.02.2018 by high to reference site(s) if natural abundance is lower than this level). ASC survey by AquaKompetanse October 2017 (field work 01.11.2017), report 279-11-17C RRNGA, Olex map with Sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC for 1 and ASC ref. 2 stations outside AZE: ASC 3 and | Compliant | | |
| | robust and credible [7] modeling system | 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. [6] Highly abundant: Greater than 100 organisms per square meter (or equal a. Undertake an analysis to determine the site-specific AZE and depositional pattern. b. Maintain records to show how the analysis (in 2.1.4a) is robust and credible based on | Sediment analyzed using ID-Gene sedimentary DNA bioassessment test. Submitted to ASC 09.02.2018 Sy high to reference site(s) if natural abundance is lower than this level). ASC survey by AquaKompetnase October 2017 (field work 01.11.2017), report 279-11-17C RENGA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2. ASC survey by AquaKompetnase October 2017 (field work 01.11.2017), report 279-11-17C RENGA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and | Compliant | | |
| | robust and credible [7] modeling system Requirement: Yes Applicability: All farms except as noted in [1] | 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. [6] Highly abundant: Greater than 100 organisms per square meter (or equal a. Undertake an analysis to determine the site-specific AZE and depositional pattern. b. Maintain records to show how the analysis (in 2.1.4a) is robust and credible based on modeling using a multi-parameter approach [7]. c. Maintain records to show that modeling results for the site-specific AZE have been verified with > 6 months of monitoring data. | Sediment analyzed using ID-Gene sedimentary DNA bioassessment test. Submitted to ASC 09.02.2018 Xy high to reference site(s) if natural abundance is lower than this level). ASC survey by AquaKompetanse October 2017 (field work 0.11.1.2017), report 279-11-11/27 RENGA. Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2). ASC survey by AquaKompetanse October 2017 (field work 0.1.11.2017), report 279-11-17C RENGA. Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC 2). ASC survey by AquaKompetanse October 2017 (field work 01.11.2017), report 279-11-17C RENGA. Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 2017 (field work 01.11.2017), report 279-11-17C RENGA. Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and ASC ref 2.0 stations outside AZ | | ed through the model. | |
| 2.1.4 | robust and credible [7] modeling system Requirement: Yes Applicability: All farms except as noted in [1] | 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. [6] Highly abundant: Greater than 100 organisms per square meter (or equal a. Undertake an analysis to determine the site-specific AZE and depositional pattern. b. Maintain records to show how the analysis (in 2.1.4a) is robust and credible based on modeling using a multi-parameter approach [7]. c. Maintain records to show that modeling results for the site-specific AZE have been verified with > 6 months of monitoring data. | Sediment analyzed using ID-Gene sedimentary DNA bioassessment test. Submitted to ASC 09.02.2018 Ny high to reference site(s) if natural abundance is lower than this level). ASC survey by AquaKompetanse October 2017 (field work 0.11.2017), report 279-11-17C RENGA. Olzer map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2). ASC survey by AquaKompetanse October 2017 (field work 01.11.2017), report 279-11-17C RENGA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2). ASC survey by AquaKompetanse October 2017 (field work 01.11.2017), report 279-11-17C RENGA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2). | | ed through the model. | |



| 2.2.1 | Indicator: Weekly average percent saturation [9] of dissolved oxygen (DO) [10] on farm, calculated following methodology in Appendix I-4 Requirement: ≥ 70% [11] Applicability: All farms except as noted in [11] | Instruction to Clients for Indicator 2.2.1 - Monitoring Average Weekly Percent Saturation Appendix I appresents the required methodology that farms must follow for sampling the a follows: - measurements may be taken with a handheld oxygen meter or equivalent chemical metho-equipment is calibrated according to manufacturer's recommendations; - measurements are taken at least twice daily once in the morning (6 - 9 am) and once in the 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 experience; - sam week, all DO measurements are used in the calculation of a weekly average percent in each week, all DO measurements are used in the calculation of a weekly average percent in the case of the control | erage weekly percent saturation of dissolved oxygen (DO). Key points of the method are as dd; a afternoon (3-6 pm) as appropriate for the location and season; by fish (e.g. at the downstream edge of a net pen array): aturation. O monitoring frequency to one sample per day. te saturation is a sample per day. te saturation requirement, the farm must demonstrate the consistency of percent saturation is pen array, in a location that is understood to follow similar patterns in upwelling to the culture, agricultural runoff or nutrient releases from coastal communities. For any such tated consistency with the reference site. It to the maximum amount that could be present at the same temperature and salinity. Nortek "Realfish" continuos logging of oxygen and temperature at 2 sampling stations (3 and 6 meters depth inside cage). | | One week missing data for disolved oxygen, not seen without | |
|----------|---|--|--|-----------------|--|---------------|
| | | d. If any weekly average DO values are < 70%, or approaching that level, monitor and record DO at a reference site and compare to on-farm levels (see instructions). | minimum 7,16 mg oxygen per liter. No measurements below 70% dissolved oxygen has been registered/observed. No measurements below 2 mg/l dissolved oxygen has been registered/observed. | Minor | justification. Jan Petter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted | Min. 80,7% |
| | | e. Arrange for auditor to witness DO monitoring and calibration while on site. | Seen Nortek "Realfish" system at site. Calibratration and service per year/generation at supplier. | | | |
| | [0] 6. | f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year. | Submitted to ASC 09.02.2018 | | | |
| Footnote | [9] Pet | [10] Averaged weekly from two daily measu | ompared to the maximum amount that could be present at the same temperature and salinity prements (proposed at 6 am and 3 pm). | /· | | |
| Footnote | | [11] An exception to this standard shall be made for farms that can den | nonstrate consistency with a reference site in the same water body. | | | |
| 2.2.2 | Indicator: Maximum percentage of weekly samples from 2.2.1 that fall under 2 mg/L DO Requirement: 5% | a. Calculate the percentage of on-farm samples taken for 2.2.1a that fall under 2 mg/L DO. | All above limits. | Compliant | | >2mg/l |
| | Applicability: All | b. Submit results from 2.2.2a as per Appendix VI to ASC at least once per year. | Submitted to ASC 09.02.2018 | | | |
| | Indicator: For jurisdictions that have national or regional coastal water quality targets [12], | a. Inform the CAB whether relevant targets and classification systems are applicable in the jurisdiction. If applicable, proceed to "2.2.3.b". If not applicable, take action as required under 2.2.4 | Ecologic state for coastal water in Rødøy community at website vann-nett (run by The Nonwegian Water Resources and Energy Directorate) shows 25% very good and 75% good. | | | |
| | 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] | b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification. | Ecologic state for coastal water in Rødøy community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 25% very good and 75% good. | Compliant | | |
| | Applicability: All farms except as noted in [15] | c. Identify the most recent classification of water quality for the area in which the farm operates. | Ecologic state for coastal water in Rødøy community at website vann-nett (run by The Nonwegian Water Resources and Energy Directorate) shows 25% very good and 75% good. | | | |
| Footnote | | [12] Related to nutrients (e | .g., N, P, chlorophyll A). | | | |
| Footnote | | [13] Within the two year | | | | |
| Footnote | [14] Class | ffications of "good" and "very good" are used in the EU Water Framework Directive. Equivale | nt classification from other water quality monitoring systems in other jurisdictions are accept | able. | | |
| Footnote | [15] Closed production systems that car | demonstrate the collection and responsible disposal of > 75% of solid nutrients as well as > | 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exem | npt from standa | ards 2.2.3 and 2.2.4. | |
| | Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitroeen and othosphorous ISIA levels on farm and at a | a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-S. For first audits, farm records must cover ≥ 6 months. | Ecologic state for coastal water in Rødøy community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 25% very good and 75% good. | | | |
| 2.2.4 | reference site, following methodology in Appendix I-5 Requirement: Consistency with reference site | b. Calibrate all equipment according to the manufacturer's recommendations. | Ecologic state for coastal water in Rødøy community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 25% very good and 75% good. | Compliant | | |
| | 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. | Ecologic state for coastal water in Rødøy community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 25% very good and 75% good. | | | |
| Footnote | | [16] Farms shall monitor total N, NH4, NO3, total P and Ortho-P in the water column. Resu | Its shall be submitted to the ASC database. Methods such as a Hach kit are acceptable. | | | |
| | | harvested fish. In this case, farm must submit breakdown of N & C captured/filtered/absorb | ch as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to ed to ASC along with method used to estimate nutrient reduction. equirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the World | | | |
| | Indicator: Demonstration of calculation of biochemical | | e production cycle first undergoing certification. If it is the first audit for the farm, the client | | | |
| | oxygen demand (BOD [17]) of the farm on a production cycle basis | is required to demonstrate to the CAB that data is being collected and an understanding of | | | | |
| 2.2.5 | Requirement: Yes Applicability: All | Note 2: Farms may seek an exemption to Indicator 2.2.5 if: the farm collects BOD samples a laboratory, and the farm can show that BOD monitoring results do not deviate significantly | | | | |
| | | a. Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box. | Last full cycle (2015G): 800 (mTO2) 4632. Full production cycle will be provided when fish is harvested, will be followed up at SA1. | Compliant | | 4632 |
| | | b. Submit calculated BOD as per Appendix VI to ASC for each production cycle. | Submitted to ASC 09.02.2018 | | | |
| | | | | | | |
| Footnote | | | Itered or absorbed through approaches such as IMTA or through direct collection of nutrient of feed. In: Proceedings of the World Aquaculture Society Meeting; Sept 25-29, 2009; VeraCru pp://web.uvic.ca/~gapi/explore-gapi/bod.html. | | | |



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| 2.2.6 | indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicals, including veterinary drugs, thereby ensuring that adverse impacts on environmental quality are minimized. Requirement: Yes Applicability: All | a. Document control systems in good culture and hygiene that includes all appropriate elements. b. Apply the systems ensuring that staff are aware, qualified and trained to properly implement them. | Approved veterinary drugs according to VHP. Substitution of chemicals to reduce use of harmful chemicals. Not seen records of weekly cleaning of boats as stated in "Renholdsplan" 08.03.10. Cleaning log. e.g., January 2018, and cleaning plan "renholdsplan 08.03.10. Barge is missing in "Renholdsplan" 08.03.10. Verified during audit ASC survey by AquaXompetanse October 2017 (field work 01.11.2017), report 279-11-17C RENGA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: SCF et al and ASC 27, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2). | Minor | Not seen records of weekly cleaning of boats as stated in "Renholdsplan" (80.93.10, Cleaning log. 20.10, Cleaning log. 20.10, Cleaning plan "Renholdsplan" (80.93.10, Barge is missing in "Renholdsplan" (80.93.10, Jan Peter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted | |
|----------|---|---|---|------------------|--|-------------|
| ļ | | Criterion 2.3 Nutrient release fro | m production Auditor Evaluation (Required CAB Actions): | | | |
| | | Compliance Criteria (Required Client Actions): | Auditor Evaluation (Required CAB Actions): rmine the fines (dust and small fragments) in finished product of fish feed which has a diamet | or of 2 mm or a | | |
| | | Note: The methodology given in Appendix 1-2 is used to dete | rmine the lines (dust and smail ragments) in missied product of itsi reed which has a diamet | er or 3 min or r | nore. | r |
| 2.3.1 | Indicator: Percentage of fines [18] in the feed at point of entry to the farm [20] (calculated following methodology in Appendix I-2) Requirement: < 1% by weight of the feed | Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document rationale behind not testing on site. | Procedure "Mottasksontrol av for og foravvikshåndtering" 21.12.2017, describes quarterly testing, sampling method, feed reception, etc. Instruction "Instruks for kontroll av for og foringsanlegg for støv og knus" 03.01.2018 describes samples size, sieve opening size, etc. | | Not seen testing on farm of feed (percentage of fines). Seen test results from | |
| | Applicability: All farms except as noted in [19] | b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. | Appropriate testing technology as per ASC | Compliant | supplier Skretting with all samples below 1% fines in feed. Jan Petter Kosmo | |
| | | 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 | Not seen testing on farm of feed (percentage of fines). Seen test results from supplier Skretting with all samples below 1% fines in feed. | | 13.03.2018: Closed | |
| | [18] Fines: Dust and fragments in the feed. Particles that | last 3 months. It separate from feed with a diameter of 5 mm or less when sieved through a 1 mm sieve, or | particles that separate from feed with a diameter greater than 5 mm when sieved through a | 2.36 mm sieve. | To be measured at farm g | gate (e.g., |
| Footnote | | from feed bags after they | | | | , (, |
| Footnote | | emonstrate the collection and responsible disposal of > 75% of solid nutrients and > 50% of | | on farm. Close | d production systems tha | t can |
| | | Criterion 2.4 Interaction with critical or sens | itive habitats and species Auditor Evaluation (Required CAB Actions): | | | |
| | | | act (e.g. as part of the regulatory permitting process), the farm may use such documents as ex long as all components in Appendix I-3 are explicitly covered. | idence to dem | onstrate compliance with | Indicator |
| | | 2.4.1 do | Sample of the Capital Control of the Capital | | | |
| | Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains at a minimum the components outlined in Appendix 1-3 | a. Perform (or contract to have performed) a documented assessment of the farm's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3. | Report "Ckal miljøvurdering" in 2017 assesses potential impacts by possible treatments and medicines. Rick assessments in Landax covers escape, feed waste, chemicals, light, noise, mammals, birds, waste, copper, sedation, exhaust, raw material feed, predators, etc. | | | |
| 2.4.1 | Requirement: Yes | 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. | Risk assessments evaluated and updated regularly. Separate plans for reducing risk. | 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 species. | Report 'Lokal miliyourdering' in 2017 assesses potential impacts by possible treatments and medicines. Risk assessments in Landax covers escape, feed waste, chemicals, light, noise, mammals, birds, waste, copper, sedation, exhaust, raw material feed, predators, etc. | | | |
| | Indicator . Allowance for the farm to be sited in a | Instruction to Clients for Indicator 2.4.2 - Exceptions to Requirements that Farms are not a The following exceptions shall be made for Indicator 2.4.2: Exception #1: For protected areas classified by the International Union for the Conservation landscapes or for sustainable resource management). Exception #2: For HCVAs if the farm can demonstrate that its environmental impacts are cowould be placed on the farm to demonstrate that it is not negatively impacting the core research of the protected area and it is not formation/designation of the protected area if it was designated as such after the far impacts are compatible with the conservation objectives of the protected area and it is in a formation/designation of the protected area. The burden of proof would be placed on the forested area: "A clearly defined geographical space, recognized, dedicated and managed associated ecosystem services and cultural values." | of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their mpatible with the conservation objectives of the HCVA designation. The burden of proof son an area has been identified as a HCVA. was already in operation and provided the farm can demonstrate that its environmental impliance with any relevant conditions or regulations placed on the farm as a result of the | | | |
| 2.4.2 | protected area [20] or High Conservation Value Areas [21] (HCVAs) Requirement: None [22] Applicability: All farms except as noted in [22] | <u>High Conservation Value Areas (MCVA)</u> : Natural habitats where conservation values are con a multi-stakeholder approach that provides a systematic basis for identifying critical conser- order to ensure that these high conservation values are maintained or enhanced | sidered to be of outstanding significance or critical importance. HCVA are designated through nation values—both social and environmental—and for planning ecosystem management in | | | |
| | | a. Provide a map showing the location of the farm relative to nearby protected areas or High Conservation Value Areas (HCVAs) as defined above (see also 1.1.1a). | Not within conservation area, seen map from Norwegian Environment Agency with protected areas. | | | |
| | | 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. | Statement site not in HCVA, 29.11.2017 signed Odd Strøm - Nova Sea AS. | N/A | Not within HCVA | |
| | | c. If the farm is sited in a protected area or HCVA, review the scope of applicability of Indicator 2.4.2 (see instructions above) to determine if your farm is allowed an exception to the requirements. If yes, inform the CAB which exception (#1, #2, or #3) is allowed and provide supporting evidence. | Not within HCVA | | | |
| | | d. If the farm is sited in a protected area or HCVA and the exceptions provided for indicator 2.4.2 do not apply, then the farm does not comply with the requirement and is ineligible for ASC certification. | Not within HCVA | | | |
| Footnote | [20] Protected area: "A clearly defined geographical sp | ace, recognized, dedicated and managed through legal or other effective means, to achieve Applying Protected Area Management Categ | the long-term conservation of nature with associated ecosystem services and cultural values." pries, Gland, Switzerland: IUCN. x + 86pp. | Source: Dudle | y, N. (Editor) (2008), Guid | elines for |
| Footnote | | | Il importance. HCVA are designated through a multi-stakeholder approach that provides a systematic that these high conservation values are maintained or enhanced (http://www.hcvnetwork.or | | or identifying critical conse | ervation |
| Footnote | For HCVAs if the farm can demonstrate that its environ For farms located in a protected area if it was design | mental impacts are compatible with the conservation objectives of the HCVA designation. Ti a HCV ated as such after the farm was already in operation and provided the farm can demonstrate | V or VI (these are areas preserved primarily for their landscapes or for sustainable resource mane burden of proof would be placed on the farm to demonstrate that it is not negatively impact | ting the core re | is in compliance with any | |
| | | Criterion 2.5 Interaction with wildlife, in Compliance Criteria (Required Client Actions): | cluding predators [23] Auditor Evaluation (Required CAB Actions): | | | |
| Footnote | | Compilance Criteria (Required Client Actions): [23] See Appendix VI for transparency re- | | | | |
| | | | | | | |
| | Indicator: Number of days in the production cycle when acoustic deterrent devices (ADDs) or acoustic | a. Compile documentary evidence to show that no ADDs or AHDs have been used by the | Statement Bukkøya, Kalvhyila, Renga, Stokkasjøen and Rensøya N does not use ADD/AHD | | | |

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| | harassment devices (AHDs) were used | farm. | and will not use them in the future, 30.01.2018 signed Odd Strøm - Nova Sea AS. | I | | 1 |
|--|---|--|--|--------------------------------|----------------------------------|--------------|
| 2.5.1 | Requirement: 0 | | | Compliant | | 0 |
| | Applicability: All | | | - | | |
| | | | No ADD/AHD used. | | | |
| | | a. Prepare a list of all predator control devices and their locations. | Procedure "Felingstillatelse, avliving, dødsfall av predatorer og/eller rødlistearter og rapportering" 30.01.2018 includes welfare, written approval from production manager/daliy manager, reporting, recording, etc. List "Oversikt over aktuelle rødlistearter" 09.11.2015 with redlisted birds, mammals, molluscs, etc. List "EN og CR fugler og sjøpattedyr for Nordland" with endangered and critical birds and mammals in the area 18.12.2017. FishTalk site diary includes predator records. | | | |
| 2.5.2 | Indicator: Number of mortalities [25] of endangered or red-listed [26] marine mammals or birds on the farm | b. Maintain a record of all predator incidents. | Landax non-conformance system from 01.01.2016 - 30.01.2018 gives 0 incidents with search for "felling" eller "redidisteart". Sustainability report "Barekraftrapport" for 2016 states 0 deaths of redlisted species from 2014 to 2016 and 0 deaths from approved killings. Preliminary sustainability report for 2017 states 0 deaths of redlisted species from 2014 to 2016 and 0 deaths from approved killings. | Compliant | | 0 |
| 2.3.2 | Requirement: 0 (zero) Applicability: All | c. Maintain a record of all mortalities of marine mammals and birds on the farm identifying the species, date, and apparent cause of death. | Landax non-conformance system from 01.01.2016 - 30.01.2018 gives 0 incidents with search for "felling" eller "rodilisteart". Sustainability report "Barekraftrapport" for 2016 states 0 deaths of redlisted species from 2014 to 2016 and 0 deaths from approved killings. Preliminary sustainability report for 2017 states 0 deaths of redlisted species from 2014 to 2016 and 0 deaths from approved killings. | Compliant | | |
| | | d. Maintain an up-to-date list of endangered or red-listed marine mammals and birds in the area (see 2.4.1) | List "Oversikt over aktuelle rødlistearter" 09.11.2015 with redlisted birds, mammals, mollusse, etc. List "EN og CR fugler og sjøpattedyr for Nordland" with endangered and critical birds and mammals in the area 18.12.2017. | | | |
| | | | No mortalities of redlisted or endangered marine mammals and birds in the area registered on site. | | | |
| Footnote Footnote | | [25] Mortalities: Includes animals intentionally killed through lethal actio [26] Species listed as endangered or critically endangered | | | | |
| | Indicator: Evidence that the following steps were taken prior to lethal action [27] against a predator: 1. All other avenues were pursued prior to using lethal | a. Provide a list of all lethal actions that the farm took against predators during the previous 12-month period. Note: "lethal action" is an action taken to deliberately kill an animal, including marine mammals and birds. | No lethal actions taken at farm. Seen FishTalk log with 0 lethal incidents from 2016 til present day. | | | |
| 2.5.3 | action 2. Approval was given from a senior manager above the farm manager 3. Explicit permission was granted to take lethal action against the specific animal from the relevant regulatory authority Requirement: Yes [28] | b. For each lethal action identified in 2.5.4a, keep record of the following: 1) a rationale showing how the farm pursued all other reasonable avenues prior to using lethal action; 2) approval from a senior manager above the farm manager of the lethal action; 3) where applicable, explicit permission was granted by the relevant regulatory authority to take lethal action against the animal. | No lethal actions taken at farm. Seen FishTalk log with 0 lethal incidents from 2016 til present day. | N/A | No lethal actions taken at farm. | |
| | Applicability: All except cases where human safety is endangered as noted in [28] | c. Provide documentary evidence that steps 1-3 above (in 2.5.4b) were taken prior to killing the animal. If human safety was endangered and urgent action necessary, provide documentary evidence as outlined in [28]. | No lethal actions taken at farm. Seen FishTalk log with 0 lethal incidents from 2016 til present day. | | | |
| Footnote | | [27] Lethal action: Action taken to deliberately kill a | n animal including marine mammals and hirds | | | |
| | | | it alima, including manne manimas and birds. | | | - |
| Footnote | [28] Exception to these cor | | equired, post-incident approval from a senior manager should be made and relevant authorit | ties must be info | ormed. | |
| Footnote The ASC Sale | mon Standard has defined "Lethal incident" to include all be a 1:1 relationship between the number of animal dea | Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Cla ethal actions as well as entanglements or other accidental mortalities of non-salmonids (foot ASC has clarified this definiti Total number of lethal Incidents = sum of all non-salmonid deaths arising from | required, post-incident approval from a senior manager should be made and relevant authority of the control of the control of "Lethal Incident" note 29]. For the purpose of assisting farms and auditors with understanding how to evaluate on further: all lethal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in killing thre load. | e compliance wi | th Indicators 2.5.4, 2.5.5, a | |
| Footnote The ASC Sale | non Standard has defined "Lethal incident" to include all be a 1:1 relationship between the number of animal dea The t | Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clae ethal actions as well as entanglements or other accidental montralities of non-salmonids (foot ASC has clarified this definite Total number of lethal incidents = sum of all non-salmonid deaths arising from this and the number of lethal incidents reported by the farm. For example, if a farm has taker within a two year per | required, post-incident approval from a senior manager should be made and relevant authority of the control of the control of "Lethal Incident" note 29]. For the purpose of assisting farms and auditors with understanding how to evaluate on further: all lethal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in killing thre load. | e compliance wi | th Indicators 2.5.4, 2.5.5, a | |
| Footnote The ASC Sale | mon Standard has defined "Lethal incident" to include all be a 1:1 relationship between the number of animal dea | Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clae thal actions as well as entanglements or other accidental mortalities of non-salmonids (foot ASC has clarified this definiti Total number of lethal incidents = sum of all non-salmonid deaths arising from this and the number of lethal incidents reported by the farm. For example, if a farm has taker within a two year per erm "non-salmonid" was intended to cover any predatory animals which are likely to try to fi a. For all lethal actions (see 2.5.3.), keep records showing that the farm made the | required, post-incident approval from a senior manager should be made and relevant authority of the control of "tethal incident" note 29]. For the purpose of assisting farms and auditors with understanding how to evaluate on further: all lethal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in killing thre od. | e compliance wi | th Indicators 2.5.4, 2.5.5, a | |
| The ASC Sali | mon Standard has defined "Lethal incident" to include all be a 1:1 relationship between the number of animal dea The t Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29] | Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clae thal actions as well as entanglements or other accidental montalities of non-salmonids (foot ASC has clarified this definition). Total number of lethal incidents = sum of all non-salmonid deaths arising from this and the number of lethal incidents reported by the farm. For example, if a farm has taker within a two year per term "non-salmonid" was intended to cover any predatory animals which are likely to try to fo a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. a. For all lethal actions (see 2.5.3), keep records showing that the farm made the | required, post-incident approval from a senior manager should be made and relevant authority rification about the ASC Definition of "Lethal Incident" note 29). For the purpose of assisting farms and auditors with understanding how to evaluate on further: all lethal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in killing thre od. eed upon farmed salmon. In practice these animals will usually be seals or birds. Company website (www.novasea.no) states 0 lethal incidents in 2017. | e compliance wi | th Indicators 2.5.4, 2.5.5, a | |
| The ASC Sali | mon Standard has defined "Lethal incident" to include all be a 1:1 relationship between the number of animal dea The t Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29] Requirement: Yes Applicability: All | Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clae ethal actions as well as entanglements or other accidental mortalities of non-salmonids (foot ASC has clarified this definition). Total number of lethal Incidents = sum of all non-salmonid deaths arising from this and the number of lethal incidents reported by the farm. For example, if a farm has taker within a two year per erm "non-salmonid" was intended to cover any predatory animals which are likely to try to fe a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. b. Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available (e.g. on a website). Posting results on a public website is an example of "easily publicly available." Shall be made | required, post-incident approval from a senior manager should be made and relevant authority rification about the ASC Definition of "Lethal Incident" note 29]. For the purpose of assisting farms and auditors with understanding how to evaluate of further: all lethal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in killing thre iod. company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. | e compliance wi | th Indicators 2.5.4, 2.5.5, a | |
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| The ASC Sali There should | mon Standard has defined "Lethal incident" to include all be a 1:1 relationship between the number of animal dea The t Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29] Requirement: Yes Applicability: All [29] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years Requirement: < 9 lethal incidents [31], with no more | Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clae ethal actions as well as entanglements or other accidental mortalities of non-salmonids (foot ASC has clarified this definition. Total number of lethal incidents = sum of all non-salmonid deaths arising from this and the number of lethal incidents reported by the farm. For example, if a farm has taker within a two year per erm "non-salmonid" was intended to cover any predatory animals which are likely to try to fo a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. b. Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available (e.g. on a website). Posting results on a public website is an example of "easily publicly available." Shall be made a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, 2 | required, post-incident approval from a senior manager should be made and relevant authority rification about the ASC Definition of "Lethal Incident" note 29]. For the purpose of assisting farms and auditors with understanding how to evaluate on further: all lethal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in killing thre loc. bed upon farmed salmon. In practice these animals will usually be seals or birds. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. | e compliance wi | th Indicators 2.5.4, 2.5.5, a | |
| The ASC Sali There should 2.5.4 | mon Standard has defined "Lethal incident" to include all be a 1:1 relationship between the number of animal dea The t Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29] Requirement: Yes Applicability: All [29] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years | Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clae ethal actions as well as entanglements or other accidental mortalities of non-salmonids (foot ASC has clarified this definition Total number of lethal incidents = sum of all non-salmonid deaths arising from this and the number of lethal incidents reported by the farm. For example, if a farm has taker within a two year per erm "non-salmonid" was intended to cover any predatory animals which are likely to try to fo a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. b. Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available (e.g. on a website). Posting results on a public website is an example of "easily publicly available." Shall be made a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, a formonths of data are required. b. Calculate the total number of lethal incidents and the number of incidents involving | required, post-incident approval from a senior manager should be made and relevant authority rification about the ASC Definition of "Lethal Incident" note 29]. For the purpose of assisting farms and auditors with understanding how to evaluate of further: all lethal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in killing thre iod. company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Sompany website (www.novasea.no) states 0 lethal incidents in 2017. Sompany website (www.novasea.no) states 0 lethal incidents in 2017. Sompany website (www.novasea.no) states 0 lethal incidents in 2017. Sompany website (www.novasea.no) states 0 lethal incidents in 2017. | e compliance wi | th Indicators 2.5.4, 2.5.5, a | al incidents |
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| The ASC Sali There should 2.5.4 Footnote | indicator: Evidence that information about any lethal incidents [29] Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29] Requirement: Yes Applicability: All [29] 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 | Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clae thal actions as well as entanglements or other accidental mortalities of non-salmonids (foor ASC has claimed this definition). Total number of lethal Incidents = sum of all non-salmonid deaths arising from this and the number of lethal incidents reported by the farm. For example, if a farm has taker within a two year per erm "non-salmonid" was intended to cover any predatory animals which are likely to try to fo a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. b. Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available (e.g. on a website). Posting results on a public website is an example of "easily publicly available." Shall be made a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, 3 6 months of data are required. b. Calculate the total number of lethal incidents and the number of incidents involving marine mammals during the previous two year period. c. Send ASC the farm's data for all lethal incidents such as such as rick or marine framenls). Data must be sent to ASC on an ongoing basis (i.e. at least one per year and for each production cycle). [30] Lethal incident: includes all lethal actions as well as entan | required, post-incident approval from a senior manager should be made and relevant authority rification about the ASC Definition of "Lethal incident" note 29]. For the purpose of assisting farms and auditors with understanding how to evaluate on further: all lethal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in killing thre lod. Company website (www.novasea.no) states on lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Seen FishTalk log with 0 lethal incident and see Appendix VI for transparency requirements. Seen FishTalk log with 0 lethal incidents from 2016 til present day. Submitted to ASC 09.02.2018 Submitted to ASC 09.02.2018 | e compliance wi | th Indicators 2.5.4, 2.5.5, a | al incidents |
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| The ASC Sali There should 2.5.4 Footnote 2.5.5 | mon Standard has defined "Lethal incident" to include all be a 1:1 relationship between the number of animal dea The ! Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29] Requirement: Yes Applicability: All [29] 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 Indicator: In the event of a lethal incident, evidence that an assessment of the risk of lethal incident(s) has been undertaken and demonstration of concrete steps | Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clae ethal actions as well as entanglements or other accidental mortalities of non-salmonids (foot ASC has clarified this definition). Total number of lethal Incidents = sum of all non-salmonid deaths arising from this and the number of lethal incidents reported by the farm. For example, if a farm has taker within a two year per erm "non-salmonid" was intended to cover any predatory animals which are likely to try to fe a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. b. Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available (e.g. on a website). Posting results on a public website is an example of "easily publicly available." Shall be made a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, 2 6. Calculate the total number of lethal incidents and the number of incidents involving marine mammals during the previous two year period. c. Send ASC the farm's data for all lethal incidents such as birds or marine mammals). Data must be sent to ASC on an inogoing basis (i.e. altes once per year and for each production cycle). [30] Lethal incident: includes all lethal actions as well as entan [31] Standard 2.5.6 applicable to incidents related to non-endangered and non- related to reduce the risk of future incidents. b. Provide documentary evidence that the farm implements those steps identified in 2.5.6a to reduce the risk of future lethal incidents. | required, post-incident approval from a senior manager should be made and relevant authority rification about the ASC Definition of "Lethal Incident" note 29]. For the purpose of assisting farms and auditors with understanding how to evaluate on further: all lethal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in killing thre iod. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Company website (www.novasea.no) states 0 lethal incidents in 2017. Seen FishTalk log with 0 lethal incident and see Appendix VI for transparency requirements. Seen FishTalk log with 0 lethal incidents from 2016 til present day. Submitted to ASC 09.02.2018 Risk assessments in Landax quality system, e.g. 10 283: predators in roof net or jumping net, 10 284: britis/fish in surveillance nets, 10 296: killing of aggressive mammals, 10 190: noise from predator devices, etc. Procedure "Fellingstillatelse, aviiving, diddfall av predatorer og/eller raddistearter og rapportering" 30.01.2018 includes welfare, written approval from production manager/daily manger, reporting, recording, etc. | e (3) birds, it is a Compliant | th Indicators 2.5.4, 2.5.5, a | al incidents |
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| | | a. Keep record of farm's participation in an ABM scheme. | ABM agreement "Samarboide subregion Helgeland" for the area from Nord-Trøndelag to Meløy in Nordland, includes lice and treatments. Cooperation is managed by HaVet and cooperation between all farmers in the region. Minutes of meeting from the ABM group QLI 1.0.11 includes revision of agreement, status in area, knowledge sharing, cleaner fish, biosecurity, treatments, logistics, cooperation, fallowing etc. Seen example of weekly report to the ABM for week 44-20.17 with lice per site, lice treatments per site and empty sites. Seen example of weekly report to medring i forskrift om bekjempelse av lakselus", states less than 0.2 adult female lice per fish from Monday week 21 to Sunday week 26. All farmers must have an approved operation plan "Oritsplan", operation plan "Oritsplan" operation plan "Oritsplan") for 2018 approved by Directorate of Fisheries 10.01.2018 for sites in Nova Sea AS. | | |
|----------|---|---|--|-------------------|---------------------|
| 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 III-1. Requirement: Yes Applicability: All except farms that release no water as noted in [32] | b. Submit to the CAB a description of how the ABM (3.1.1a) coordinates management of disease and resistance to treatments, including: - coordination of stocking; - fallowing: - therapeutic treatments; and - information sharing. | ABM agreement "Samarbeide subregion Helgeland" for the area from Nord-Trøndelag to Meley in Nordland, includes lice and treatments. Cooperation is managed by HaVet and cooperation between all farmers in the region. Sensitive period defined in "Forskrift on endring i forskrift on belgiempelse av lakselus", states less than O2 adult femalle lice per fish from Monday week 21 to Sunday week 26. All farmers must have an approved operation plan "Driftsplan". Operation plan "Driftsplan" to 2018 approved by Drectorate of Fisheries 10.01.2018 for sites in Nova Sea AS, includes Kalvilyla present generation 2017G (planned new generation 10.10.2019, 1,2 million smoth), Buskaya present generation 2017G (planned new generation 16.07.2019, 1,3 million smoth), Rensylva N present generation 2017G (planned new generation 16.07.2019, 1,3 million smoth), Agnad Stokkajen present generation 2017G (planned new generation 10.010.2018, 0). Sometime of the present generation 2017G (planned new generation 2018), on million smoth), and Stokkajen present generation 2017G (planned new generation 10.01.2019, 1,35 million smoth). | Compliant | |
| | | c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate the ABM's compliance with all requirements in Appendix II-I, including definition of area, minimum % participation in the scheme, components, and coordination requirements. | ABM agreement "Samarbeide subregion Helgeland" for the area from Nord-Trøndelag to Meley in Nordand, includes lice and treatments. Cooperation is managed by Halvet and cooperation between all farmers in the region. Sensitive period defined in "Forskrift on endring I forskrift on bekjempebe av lakselum." Sattaste less than O2 adult female lice per fish from Monday week 21 to Sunday week 26. All farmers must have an approved operation plan "Driftsplan". Operation plan ("Oritsplan" to 2018 approved by Ortectrate of Fatheries 10.01.2018 for sites in Nova Sea AS, includes Kallvyllip serent generation 2017 (planned new generation 50.0.1019, 1.2 million smot), Bukkaya present generation 2017 (planned new generation 15.07.2019, 1.3 million smot), Renga present generation 2017 (planned new generation 16.07.2019, 1.3 million smot), Bressya N present generation 2017 (planned new generation 16.09.2019, 0.8 million smot), and Stokkasjeen present generation 2017(6 (planned new generation 16.00.01.01.01.01.01.01.01.01.01.01.01.01. | | |
| | | d. Submit dates of fallowing period(s) as per Appendix VI to ASC at least once per year. | Submitted to ASC 09.02.2018 | | |
| | | | os, academics and governments on areas of mutually agreed research to measure possible learch projects, the farm may demonstrate compliance by showing evidence of commitment relevant organizations. | | |
| | Indicator: A demonstrated commitment [34] to | 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. | Project "Elveovervåking Helgeland" regarding status for anadromous fish stocks in an assumed farming influenced area. Seen project description with participants from Nova Sea, Ferskvannshologen and Skandinavis kanturoverking, signed by Nowa Sea, Lovundlask, Kvarøy fiskeopoptett, 65.07.2017 regarding financial contribution. Project regarding spawning area in Beiarn, cooperates with GIFAs and Nowa Sea, Villaksforvaltning. Seen invoice 16.01.2018 regarding project support to Villaks fra Beiarelva SA, Participation in project "Marin overvåking Nordland" regarding the influence of farming, with e.g. Akvaplan NIVA, NCE Aquaculture, NINA and University in Nordland. Contributes with man-hours, samples, equipment and financial. Seen email from M.J NCE Aquaculture Ol. 2017 regarding the project. Participation in project group in project "Automatisk sorteringsanlegg for anadrom fisk" together with Mosjeen og Omegn Naringsutvikling. Seen letter from Nordland Fylkeskommune 21.08.2017 regarding financial support to pre-project. Supports master thesis facess to equipment and site alt University in Nordland. Seen master thesis May 2013 naming O.A.F. and S.A Nova Sea AS as fatnes og Stian Amble. Stated on GIFAS website: GIFAS cooperates with Sundsfjord Smolt. | | |
| 3.1.2 | 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 | b. Drovide non-financial support to research activities in 3.1.2a by either: - providing researchers with access to farm-level data; - granting researchers direct access to farm sites; or - facilitating research activities in some equivalent way. | Some of the projects described in 3.1.2 a. includes non-financial support. | Compliant | |
| | noted in [32] | 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. | Seen email correspondence 23.09.2015 regarding project with Novartis which was ended because of lice limit had to be followed. Not denied projects from NGOs, academics and governments. | | |
| | | 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. | Project "Elveouerväking Helgeland" regarding status for anadromous fish stocks in an assumed farming influenced area. Seen project description with participants from Nova Sea, Ferskvannsblogen and Sadaniawski naturovaking, signed by Nova Sea, Lovundlaks, Narøy fokseoppdrett, 05.07.2017 regarding financial contribution. Project regarding spawning area in Beiran, cooperates with GIFAS and Nova Sea, Villasforvaltning. Seen invoice 15.01.2018 regarding project support to Villaks fra Beiarelva SA. Participation in project "Marin overvåking Nordland" regarding the influence of farming, with e.g. Akvaplan NIVA, NCE Aquaculture, NINA and University in Nordland. Contributes with man-hours, samples, equipment and financial. Seen email from M.J NCE Aquaculture of J.02.027 regarding the project. Participation in project group in project "Automatiks vorteringsanlegg for anadrom fisk" together with Mosjeen og Omegn Narringsutvikling. Seen letter from Nordland Fylkeskommune 21.08.2017 regarding financial support to pre-project. Supports master thesis (access to equipment and site) at University in Nordland. Seen master thesis May 2013 naming O.A.F. and S.A Nova Sea AS as fatnes og Stian Amble. Stated on GIFAS website: GIFAS cooperates with Sundsfjord Smolt. | | |
| Footnote | [34] Commitment: At a minimum, a f | arm and/or its operating company must demonstrate this commitment through providing fau | rm-level data to researchers, granting researchers access to sites, or other similar non-financia | al support for re | esearch activities. |
| | | a. Keep records to show that a maximum sea lice load has been set for: - the entire ABM; and - the individual farm. | Norwegian Food Safety Authority set limits and governmental treatment regime for site and ABM, while ABM/HaVet define actual operations and treatment regime. Sea lice load reported to Altim weekly and made public on www. bærentswatch.no. ABM/HaVet reports status in area monthly to participating companies. | | |
| | Indicator: Establishment and annual review of a maximum sea lice load for the entire ABM and for the individual farm as outlined in Appendix II-2 | b. Maintain evidence that the established maximum sea lice load (3.1.3a) is reviewed annually as outlined in Appendix II-2, incorporating feedback from the monitoring of wild salmon where applicable (See 3.1.6). | Sea lice load reported to Altinn weekly and made public on www.barentswatch.no. ABM/HaVer reports status in area monthly to participating companies. No monitoring of wild salmon allowed, feedback from governmental monitoring of wild salmon incorporated. | | |
| 3.1.3 | L | <u>-</u> | 1 | Compliant | ı I |



| | Requirement: Yes | | | 1 , | Í | i |
|----------|--|--|---|------------------|--|-------------|
| | Applicability: All 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 ABM has set (3.1.3a) and annually reviewed (3.1.3.b) maximum sea lice load in compliance with requirements in Appendix II-2. | NFSA set limits and governmental treatment regime for site and ABM. Recorded in Fish Talk, and automatic reported to Altinn weekly. From week 30-2017 to 52-2017: max. 0,07 mature female lice per fish in week 36-2017. Sensitive period week 21 - 26 in 2017: NA From week 01-2018 to 03-2018: max. 0,01 mature female lice per fish in week 2-2018. | | | |
| | | d. Submit the maximum sea lice load for the ABM to ASC as per Appendix VI at least once per year. | Submitted to ASC 09.02.2018 | | | |
| | | a. Prepare an annual schedule for testing sea lice that identifies timeframes of routine testing frequency (at a minimum, monthly) and for high-frequency testing (weekly) due to sensitive periods for wild salmonids (e.g. during and immediately prior to outmigration of juveniles). | Procedure "Kontroll og bekjempelse av lakselus" 27.10.2017 states counting of lice on 20 fish per cage in week 19 to 26 and , counting of lice on 10 fish per cage in week 27 to 18. Counting of lice according to regulation "Lakselusforskriften" and guidance to the regulation. Average from count in each cage reported to governments. | | | |
| | | b. Maintain records of results of on-farm testing for sea lice. If farm deviates from schedule due to weather [35] maintain documentation of event and rationale. | Sea lice load reported to Altinn weekly and made public on www.barentswatch.no. No missing data. | | | |
| 3.1.4 | Indicator: Frequent [35] on-farm testing for sea lice, with test results made easily publicly available [36] within seven days of testing Requirement: Yes Applicability: All except farms that release no water as noted in [32]. | c. Document the methodology used for testing sea lice ('testing' includes both counting and identifying sea lice). The method must follow national or international norms, follows accepted minimum sample size, use random sampling, and record the species and life-stage of the sea lice. If farm uses a closed production system and would like to use an alternate method (i.e. video), farm shall provide the CAB with details on the method and efficacy of the method. | Procedure "Kontroll og bekjempelse av lakselus" 27.10.2017 states counting of lice on 20 fish per cage in week 19 to 26 and , counting of lice on 10 fish per cage in week 27 to 18. Counting of lice according to regulation "Lakselusforskriften" and guidance to the regulation. Average from count in each cage reported to governments. | Compliant | | |
| | noteu iii [52] | 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. | Reported weekly to Altinn. Results available at www.barentswatch.no (also link to Barentswatch on company website). | | | |
| | | e. Keep records of when and where test results were made public. | Sea lice load reported to Altinn weekly and made public on www.barentswatch.no. | | | |
| | | f. Submit test results to ASC (Appendix VI) at least once per year. | Submitted to ASC 09.02.2018 | | | |
| Footnote | [35] Testing must be weekly during and immediately price | r to sensitive periods for wild salmonids, such as outmigration of wild juvenile salmon. Testir lice (below 4 degrees C). Within closed production systems, alternative me | ng must be at least monthly during the rest of the year, unless water temperature is so cold the thought of the seal lice, such as video monitoring, may be used. | nat it would jeo | pardize farmed fish health | to test for |
| Footnote | | [36] Posting results on a public website is at Instruction to Clients for Indicator 3.1.5 - Evidence for Wild Salmonid Health and Migratio | | | | |
| | | | s or from research institutions. Therefore farms are not responsible for conducting this formation in their region, as such information is needed to make management decisions distributions of the such as the | | | |
| | | it must be recognized that each jurisdiction may have slight differences in how a wild salmo For purposes of these standards, "areas with wild salmonids" are defined as areas within 75 | dian Wild Salmon Policy is an example of an appropriate fish stock-level definition. However, nid stock is defined in the region. | | | |
| | 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 | species is not natural to a region (e.g. Atlantic or Pacific Salmon in Chile) the areas are not constablished themselves as a reproducing species in "the wild". Farms do not need to conduct research on migration routes, timing and the health of wild s | onsidered as "areas with wild salmonids" even if salmon have escaped from farms and | | | |
| 3.1.5 | kilometers of the farm Requirement: Yes | minimizing potential impact on those stocks. Such "evidence" would consist of, for example a. Identify all salmonid species that naturally occur within 75 km of the farm through | , peer review studies; publicly available government monitoring and reporting. | | | |
| | Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32] | 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. | Salmo salar naturally occurring in area. | | | |
| | | b. For species listed in 3.1.5a, compile best available information on migration routes, migration timing (range of months for juvenile outnigration dreturning salmon), life history thing for costal resident salmonists, and stock productivity over time in major waterways within 50 km of the farm. | Seen Report "Risikorapport Norsk fiskeoppdrett 2017" by IMR shows infestation of lice on wild fish, lice induced mortality on wild fish, etc. For area where company is present. Seen Map from "laskeregisteret" by Norwegian Environment Agency as basis for map with farm and an area of 80 km around. | Compliant | | |
| | | c. From data in 3.1.5b, identify any sensitive periods for wild salmonids (e.g. periods of outmigration of juveniles) within 50 km of the farm. | Sensitive period defined in regulation "Forskrift om endring i forskrift om bekjempelse av lakselus", states less than 0,2 adult female lice per fish from Monday week 21 to Sunday week 26. | | | |
| | | | Sufficient awareness demonstrated in interview. | | | |
| Footnote | [37] For purposes of these standards, "are | as with wild salmonids" are defined as areas within 75 kilometers of a wild salmonid migratio | n route or habitat. This definition is expected to encompass all, or nearly all, of salmon-growi | ng areas in the | northern hemisphere. | |
| Footnote | [38] Farms do not need to conduct research on migration | on routes, timing and the health of wild stocks under this standard if general information is a such information is needed to make management decisions | Iready available. Farms must demonstrate an understanding of this information at the general related to minimizing potential impact on those stocks. | I level for salm | onid populations in their r | region, as |
| | | a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.6 does not apply. | Surveillance of sea lice level on wild salmonids administrated by IMR. Result published in report "Risikorapport for norsk fiskeoppdrett 2017" by IMR. Private interference with wild salmonids prohibited by law. | | | |
| | 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. | b. Keep records to show the farm participates in monitoring of sea lice on wild salmonids. | Surveillance of sea lice level on wild salmonids administrated by IMR. Result published in report "Riskorapport for norsk fiskeoppdrett 2017" by IMR. Private interference with wild salmonids prohibited by law. | | | |
| | Requirement: Yes Applicability: All farms operating in areas with wild | 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. | Surveillance of sea lice level on wild salmonids administrated by IMR. Result published in report "Risikorapport for norsk fiskeoppdrett 2017" by IMR. Private interference with wild salmonids prohibited by law. | Compliant | | |
| | salmonids except farms that release no water as noted in [32] | d. Make the results from 3.1.6b easily publicly available (e.g. posted to the company's website) within eight weeks of completion of monitoring. | Report public available at www.imr.no | | | |
| | | e. Submit to ASC the results from monitoring of sea lice levels on wild salmonids as per Appendix VI. | Private interference with wild salmonids prohibited by law. | | | |
| | | a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.7 does not apply. | Salmo salar naturally occurring in area. | | | |
| 3.1.7 | Indicator: In areas of wild salmonids, maximum on-farm lice levels during sensitive periods for wild fish [39]. See detailed requirements in Appendix II, subsection 2. Requirement: 0.1 mature female lice per farmed fish | b. Establish the sensitive periods [39] of wild salmonids in the area where the farm operates. Sensitive periods for migrating salmonids is during juvenile outmigration and approximately one month before. | Sensitive period defined in "Forskrift om endring i forskrift om bekjempelse av lakselus", states less than 0,2 adult female lice per fish from Monday week 21 to Sunday week 26. | Compliant | Maximum 0,28 adult female lice in week 26 in 2016. | Max. 0,28 |
| | Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32] | c. Maintain detailed records of monitoring on-farm lice levels (see 3.1.4) during sensitive periods as per Appendix II-2. | No fish in sensitive period (week 21 - 26) in 2017. Maximum 0,28 adult female lice in week 26 in 2016. | priant | Jan Petter Kosmo 13.03.2018: Closed | |
| | | 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). | Continuos wild fish sealice monitoring not possible (not allowed according to national legislation). Monitoring done by governmental research institutes. Direct feedback loop hence impossible to obtain. | | | |
| Footnote | | [39] Sensitive periods for migrating salmonids is during juver Criterion 3.2 Introduction of non- | native species | | | |
| | | Compliance Criteria (Required Client Actions): | Auditor Evaluation (Required CAB Actions): | | | |
| | | Note: For the purposes of Indicator 3.2.1, "area" is defined as a contiguous body of water wand reproduction (e.g., the Northern Atlantic Coast of the U.S. and Canada). Appendix II: A into account the zone in which key cumulative impacts on wild populations may occur, water that the area relates to the spatial extent that is likely to be put at risk from the non-native: | elaborates further on this definition: "The boundaries of an area should be defined, taking er movement and other relevant aspects of ecosystem structure and function." The intent is | | | |
| | ı | | | 1 | | |



| 3.2.1 | Indicator. If a non-native species is being produced, demonstration that the species was widely commercially produced in the area by the date of publication of the ASC Salmon standard Requirement: Yes [40] Applicability: All farms except as noted in [40] | 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. 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. 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 (e.g. Up or other effective treatment of any effluent water exiting the system to the natural environment). | Salmo salar native to region | N/A | Salmo salar native to region. | |
|----------|--|---|--|--|-------------------------------|-------------|
| Footnote | [40] Exceptions shall be made for production systems to | hat use 100 percent sterile fish or systems that demonstrate separation from the wild by effe and subsequenth | Lective physical barriers that are in place and well-maintained to ensure no escapes of reared s y reproduce. | pecimens or bio | ological material that migl | ht survive |
| | Indicator: If a non-native species is being produced, | Instruction to Clients for Indicator 3.2.2 - Exceptions to Allow Production of Non-Native Sp Farms have had five years to demonstrate compliance with this standard from the time of p Farms are exempt from this standard if they are in a jurisdiction where the non-native speci- conditions are met: eradication would be impossible or have detrimental environmental effi (CBD) was ratified; the species is fully self-sustaining. Note: For the purposes of indicator 3.2.2, "jurisdiction" is defined the same as "area" in 3.2. | secies ublication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017). es became established prior to farming activities in the area and the following three ects; the introduction took place prior to 1993 (when the Convention on Biological Diversity | | | |
| | evidence of scientific research [41] completed within the past five years that investigates the risk of establishment | a. Inform the ASC of the species in production (Appendix VI). | Submitted to ASC 09.02.2018 | | | |
| 3.2.2 | of the species within the farm's jurisdiction and these results submitted to ASC for review [42] Requirement: Yes | b. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.2 does not apply. | Salmo salar native to region | | | |
| | Applicability: All [43] | 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). | Salmo salar native to region | N/A | Salmo salar native to region | |
| | | d. If applicable, submit to the CAB a request for exemption that shows how the farm meets all three conditions specified in instruction box above. | Salmo salar native to region | | | |
| Footnote | | e. Submit evidence from 3.2.2c to ASC for review. [41] The research must at a minimum include multi-year monitoring for non-native far | Salmo salar native to region rmed species, use credible methodologies and analysis, and undergo peer review. | | | |
| Footnote | | the ASC will consider prohibiting the certification of farming of non-native salmon in that juris | diction under this standard. In the event that the risk tools demonstrate "high" risks, the SAD | expects that th | ne ASC will prohibit the ce | rtification |
| 2 | | farming of non-native salmon in that jurisdiction. The ASC intends to bring this evidence into | | La de la constante de la const | | |
| Footnote | rarms are exempt from this standard if they are in a | jurisdiction where the non-native species became established prior to farming activities in the took place prior to 1993 (when the Convention on Biological Div | ne area and the following three conditions are met: eradication would be impossible or have dersity (CBD) was ratified); the species is fully self-sustaining. | ecrimental env | monmental effects; the in | croauction |
| | | a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice. | Cleaning fish: Rognkjeks Cyclopterus lumpus (Lumpfish, farmed) are native to region. | | | |
| 3.2.3 | Indicator: Use of non-native species for sea lice control for on-farm management purposes Requirement: None | 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. | Health report 13.12.2017, Nordland rensefisk, by HaVet, for farmed lumpfish, routine inspection. | Compliant | | |
| | Applicability: All | c. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region. | Cleaning fish: Rognkjeks: Cyclopterus lumpus (Lumpfish, farmed) are native to region. | | | |
| | | Criterion 3.3 Introduction of tran Compliance Criteria (Required Client Actions): | sgenic species Auditor Evaluation (Required CAB Actions): | | I | |
| | Indicator: Use of transgenic [44] salmon by the farm | a. Prepare a declaration stating that the farm does not use transgenic salmon. | Nova Sea policy "Nova Sea konsempolitikk for mattrygghet, dyrevelferd, kvalitet, miljø, energi og klima" approved by Odd Strøm 01.02.2018, states no use of genmodified fish or feed. | | | |
| | Requirement: None Applicability: All | b. Maintain records for the origin of all cultured stocks including the supplier name, address and contact person(s) for stock purchases. | Statement from Marine Harvest (Mowi), april 2017, no GM salmon. AquaGen statement, 20.12.2017, SAK - AquaGen, no GM. | Compliant | | |
| Footnote | [44] Transgenic: Containing genes altered by insertion of DNA from an unrelated organism. Taking genes from | c. Ensure purchase documents confirm that the culture stock is not transgenic. | Purchase only smolt of Mowi/AquaGen origin. | | | |
| | one species and inserting them into another species to | Criterion 3.4 Escapes [| | | | |
| Footnote | | Compliance Criteria (Required Client Actions): [45] See Appendix VI for transparency rec | Auditor Evaluation (Required CAB Actions): uirements for 3.4.1, 3.4.2 and 3.4.3. | | | |
| | | Maintain monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees. | No escapes registered in the period 2007 - today. Documented by report from company and register at Directorate of Fisheries (www.fiskeridir.no). | | | |
| | | b. Aggregate cumulative escapes in the most recent production cycle. | No escapes registered in the period 2007 - today. Documented by report from company and register at Directorate of Fisheries (www.fiskeridir.no). | | | |
| 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] | c. Maintain the monitoring records described in 3.4 la for at least 10 years beginning with the production cycle for which farm is first applying for certification (necessary for farms to be eligible to apply for the exception noted in [47]). d. If an escape episode occurs (i.e. an incident where > 300 fish escaped), the farm may | No escapes registered in the period 2007 - today. Documented by report from company and register at Directorate of Fisheries (www.fiskeridir.no). | Compliant | | 0 |
| | | request a rare exception to the Standard [47]. Requests must provide a full account of the episode and must document how the farm could not have predicted the events that caused the escape episode. | No escapes registered in the period 2007 - today. | | | |
| | | e. Submit escape monitoring dataset to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle). | Submitted to ASC 09.02.2018 | | | |
| Footnote | [46] Farms shall report all escapes; the | e total aggregate number of escapees per production cycle must be less than 300 fish. Data o | In date of escape episode(s), number of fish escaped and cause of escape episode shall be rep | orted as outline | ed in Appendix VI. | |
| Footnote | | | such exceptional episode is allowed in a 10-year period for the purposes of this standard. The preasonable way to predict the events that caused the episode. See auditing guidance for add | | d starts at the beginning o | of the |



| | | a. Maintain records of accuracy of the counting technology used by the farm at times of stocking and harvest. Records include copies of spec sheets for counting machines and common estimates of error for hand-counts. | Counting performed at FW site, vaccination numbers used for stocking number at sea net cage. Final accurate numbers at harvest plant where individual fish is handled and registered. Statement from Vaki 98 - 100% accuracy (vaccine machines "Macro and Micro"), machines used by Heigleland Smolt and Sundsfjord Smolt. Statement from AquaScan 5500 98 - 100% accuracy, machines used by wellboat. | | | |
|--------------|---|---|---|------------------|--------|-----------|
| | Indicator: Accuracy [48] of the counting technology or counting method used for calculating stocking and | b. If counting takes place off site (e.g. pre-smolt vaccination count), obtain and maintain documents from the supplier showing the accuracy of the counting method used (as above). | Vaccination numbers in FW used as accurate number stocked. | | | |
| 3.4.2 | harvest numbers Requirement: ≥ 98% | c. During audits, arrange for the auditor to witness calibration of counting machines (if used by the farm). | Counting not performed at site | Compliant | | 98 - 100% |
| | Applicability: All | | Counting performed at FW site, vaccination numbers used for stocking number at sea net cage. Final accurate numbers at harvest plant where individual fish is handled and registered. Statement from Vaki 98 - 100% accuracy (vaccine machines "Macro and Micro"), machines used by Helgeland Smolt and Sundsfjord Smolt. Statement from AquaScan 5500 98 - 100% accuracy, machines used by wellboat. | | | |
| | | e. Submit counting technology accuracy to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle). | Submitted to ASC 09.02.2018 | | | |
| Footnote | | [48] Accuracy shall be determined by the spec sheet for counting mach | ines and through common estimates of error for any hand-counts. | | | |
| | | Instruction to Clients for Indicator 3.4.3 - Calculation of Estimated Unexplained Loss | | | | |
| | | The Estimated Unexplained Loss (EUL) of fish is calculated at the end of each production cyc | cle as follows: | | | |
| | | EUL = (stocking count) - (harvest count) - (mortalities) - (recorded escapes) | | | | |
| | | Units for input variables are number of fish (i.e. counts) per production cycle. Where possibl adapted from footnote 59 of the ASC Salmon Standard. | le, farms should use the pre-smolt vaccination count as the stocking count. This formula is | | | |
| | | a. Maintain detailed records for mortalities, stocking count, harvest count, and escapes (as per 3.4.1). | Specific site reports and records documented and available in production and recording system. | | | |
| 3.4.3 | Indicator: Estimated unexplained loss [49] of farmed salmon is made publicly available Requirement: Yes | b. Calculate the estimated unexplained loss as described in the instructions (above) for the most recent full production cycle. For first audit, farm must demonstrate understanding of calculation and the requirement to disclose EUL after harvest of the current cycle. | EUL 15G: -1,78% EUL 17G: not harvested yet. | Compliant | | |
| | Applicability: All | c. Make the results from 3.4.3b available publicly. Keep records of when and where results were made public (e.g. date posted to a company website) for all production cycles. | Seen on ASC dashboard at company website, www.novasea.no | | | -1,78 % |
| | | d. Submit estimated unexplained loss to ASC as per Appendix VI for each production cycle. | Submitted to ASC 09.02.2018 | | | |
| | | | EUL within normal range. | | | |
| Footnote | [49] Calculated at the end | d 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 stockin | g count is prefe | erred. | |
| | | Prepare an Escape Prevention Plan and submit it to the CAB before the first audit. This plan may be part of a more comprehensive farm planning document as long as it addresses all required elements of indicator 3.4.4. | Procedure "Forebygge og avdekke rømming" 21.07.2016 regarding escape prevention and to discover escape. Procedure "Vaskebåt" 26.10.2016 regarding prevention of escape by inspection, reporting of deviation and documentation. Procedure "Kontrollrutiner mot rømming" 21.07.2016 regarding discover escape. | | | |
| | Indicator: Evidence of escape prevention planning and related employee training, including; net strength testing; appropriate net mesh size, net traceability; | 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; - 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. | Procedure "Forebygge og avdekke rømming" 21.07.2016 regarding escape prevention and to discover escape. Procedure "Vaskebåt" 26.10.2016 regarding prevention of escape by inspection, reporting of deviation and documentation. Procedure "Kontrollrutiner mot rømming" 21.07.2016 regarding discover escape. Contingency plan "Beredskapsplan ved rømming" 05.09.2017 regarding escape limitation, information, action, catch, reporting, measures and evaluation. Schedule and records of internal inspections of farm in "Havbruksloggen", also information of the equipment on the farm (e.g. strength test of nets and placing of them). | | | |
| 3.4.4 | 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 | Lift the farm operates a closed system, ensure the plan (3.4.4a) covers the following areas: - system robustness; - predator management; - record keeping: - reporting risk events (e.g. holes, infrastructure issues, handling errors); - planning of staff training to cover all of the above areas; and - planning of staff training on escape prevention and counting technologies. | Open system | Compliant | | |
| | | d. Maintain records as specified in the plan. | "Havbruksloggen": Weekly check of farm performed e.g. 19.01.2018 signed CLO, 26.01.2018 signed OA, etc. "Havbruksloggen": Frame H. Cage 3, contains net 9055. Service card for net 9055 by Egersund Net 20.04.2017, valid for 12 months, includes strength test. Visual check at unit 3: net 9055 and cage 5566. Egge 5566 from Akva group, produced February 2015, 20 years validity. Farm certificate ("Anleggsserflikht") APN-172 by Akvaplan Niva 24.04.2015, validity 5 years, for 14 cages and barge nr. 93384. Visual check at barge: AsvaCenter 450 nr. 93384. Contingency plan regarding escape dated 05.09.2017. | | | |
| | | | Certificate of apprenticeship for OA 14.11.2013 by Nordland Fylkeskommune. | | | |
| | | e. Train staff on escape prevention planning as per the farm's plan. | Certificate of apprenticeship for CLO 10.12.2015 by Nordland Fylkeskommune. | | | |
| | | e. Train staff on escape prevention planning as per the farm's plan. | Certificate of apprenticeship for CLO 10.12.2015 by Nordland Fylkeskommune. Verified during interview. | | | |
| PRINCIPLE 4: | USE RESOURCES IN AN ENVIRONMENTALLY EFFICIENT AN | | Verified during interview. | | | |



truction to Clients for Indicators 4.1.1 through 4.4.2 - Sourcing of Responsibly Produced Salmon Feeds ms must show that all feeds used by the farm are produced in compliance with the requirements of indicators 4.1.1 through 4.4.4. To do so, farms must obtain documentary evidence that the feed producers (see note 1) are audited at regular intervals an independent auditing firm or a conformity assessment body against a recognized standard which substantially incorporate requirements for traceability. Acceptable certification schemes include GlobalGAP or other schemes that have been knowledged by the ASC (see 4.1.1c below). Results from these audits shall demonstrate that feed producers have robust information systems and information handling processes to allow the feed producers to be able to bring forward accurate ormation about their production and supply chains. Declarations from the feed producer that are provided to the farm to demonstrate ormalizations. The production and supply chains. Declarations from the feed producer that are provided to the farm to demonstrate ormalizations. The production and supply chains. Declarations from the feed producer that are provided to the farm to demonstrate that supplications from the feed producer that also show that all of their feed aducers are duly informed of the requirements of the ASC Salmon Standard relating to sourcing of responsibly produced salmon feed (see 4.1.1b below). In addition to the above, farms must also show that their feed suppliers comply with the more detailed requirements for traceability and ingredient sourcing that are specified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows farms to use one of two different methods to demonstrate compliance of feed producers: Method #1: Farms may choose to source feed from feed producers who used only those ingredients allowed under the ASC Salmon Standards during the production of a given batch of feed. For example, the farm may request its feed supplier to produce a batch of feed according to farm specifications. Audits of the feed producer will independently verify that manufacturing processes are in compliance with ASC requirements. tethod #2: Farms may choose to source feed from feed producers who demonstrate compliance using a "mass-balance" method. In this method, feed producers show that the balance of all ingredients (both amount and type) used during a given feed coduction period meets ASC requirements. However, mixing of ingredients into the general silos and production lines is allowed during manufacturing, Audits of the feed producer will independently verify that manufacturing processes are in compliance it hASC requirements. The mass balance method can be applied, for example, to integrated feed production companies that handle all steps of feed manufacturing (purchasing of raw materials, processing to finished feed, and sales) under the anagement of a single legal entity. Note 1: The term "feed producer" is used here to identify the organization that produces the fish feed (i.e. it is the "feed manufacturer"). In most cases, the organization supplying feed to a farm (i.e. the feed supplier) will be the same organization that produced the feed, but there may be instances where feed suppliers are not directly responsible for feed production. Regardless of whether the farm sources feeds directly from a feed producer or indirectly through an intermediary organization, it remathe farm's obligation to show evidence that all feeds used are in compliance with requirements with requirements. . Maintain detailed records of all feed suppliers and purchases including contact information and purchase and delivery records. July - December 2017: 847 880 kg total (Skretting 100 %) Inform each feed supplier in writing of ASC requirements pertaining to production of salmon feeds and send them a copy of the ASC Salmon Standard. Feed suppliers informed of relevant ASC requirements in mail to Skretting 09.11.2017. 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. Indicator: Evidence of traceability, demonstrated by th feed producer, of feed ingredients that make up more than 1% of the feed [50]. kretting: GlobalG.A.P. Certified, GGN: 4050373823641, valid to 22.06.2018. 4.1.1 Compliant Requirement: Yes d. For each feed producer, determine whether the farm will use method #1 or method #2 (see Instructions above) to show compliance of feed producers. Inform the CAB in writing. Method #2 Applicability: All Obtain declaration from feed supplier(s) stating that the company can assure traceability of all feed ingredients that make up more than 1% of the feed to a level of detail required by the ASC Salmon Standard [50]. Skretting: Statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016. statement and certificate verified. [50] Traceability shall be at a level of detail that permits the feed producer to demonstrate compliance with the standards in this document (i.e., marine raw ingredients must be traced back to the fishery, soy to the region grown, etc.). Feed manufacturers will need to supply the farm with third party documentation of the ingredients covered under this standard. Footnote Criterion 4.2 Use of wild fish for feed [51] Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions): Footnote dix VI for transparency requirements for 4.2.1 and 4.2 Instruction to Clients for Indicator 4.2.1 - Calculation of FFDRm Farms must calculate the Fishmeal Forage Fish Dependency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintained sufficient information in order to make an accurate calculation of FFDRm is outlined below. For first audits, farms may be exempted from compliance with indicator 4.2.1 for the most recent complete production cycle (i.e. if the FFDRm of the most recent crops was > 1.2) if the FFDR mile of the most recent crops was > 1.2 if the FFDR mile of the most recent crops was > 1.2 if the FFDR mile of the most recent crops was > 1.2 if the FFDR mile of the most recent crops was > 1.2 if the FFDR mile of the most recent crops was > 1.2 if the FFDR mile of the most recent crops was > 1.2 if the FFDR mile of the most recent crops was > 1.2 if the STPR mile of the most recent crops . 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; ndicator: Fishmeal Forage Fish Dependency Ratio evious full cycle 2015G: 99% Skretting and 1% EWOS. etting statement December 2016: 76 % of fishmeal from reduction fisheries and 24 % (FFDRm) for grow-out (calculated using formulas in Appendix IV- 1) from trimmings and byproducts. 13,1 % fishmeal in feed Percentage of fishmeal in each formulation derived from trimmings: and Supporting documentation and signed declaration from feed supplier. Applicability: All Skretting statement December 2016: 24 % of fishmeal from trimmings and byproducts. 13,1 % fishmeal in feed. Not seen FFDRm submitted to ASC. b. For FFDRm calculation, exclude fishmeal derived from rendering of seafood by-products 0,48 Compliant Jan Petter Kosmo 13.03.2018: Closed c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1). Previous full cycle 2015G: EFCR 1,11 Previous full cycle 2015G: FFDRm 0,48 d. Calculate FFDRm using formulas in Appendix IV-1. e. Submit FFDRm to ASC as per Appendix VI for each production cycle. Not seen FFDRm submitted to ASC. Note: Under Indicator 4.2.2, farms can choose to calculate FFDRo (Option #1) or EPA & DHA (Option #2). Farms do not have to demonstrate that they meet both threshold values. Client shall inform the CAB which option they will use. Previous full cycle 2015G: 99% Skretting and 1% EWOS. Skretting statement December 2016: 76 % of fishmeal from reduction fisheries and 24 % from trimmings and byproducts. 13,1 % fishmeal in feed. . Maintain a detailed inventory of the feed used as specified in 4.2.1a. Indicator: Fish Oil Forage Fish Dependency Ratio (FFDRo) for grow-out (calculated using formulas in Appendix IV- 1), b. For FFDRo and EPA+DHA calculations (either option #1 or option #2), exclude fish oil erived from rendering of seafood by-products (e.g. the "trimmings" from a human nsumption fishery. kretting statement December 2016: 26 % of fishoil from trimmings and byproducts , laximum amount of EPA and DHA from direct marine ources [52] (calculated according to Appendix IV-2) Not seen FFDRo submitted to ASC. Jan Petter Kosmo 13.03.2018: Closed . Inform the CAB whether the farm chose option #1 or option #2 to demonstrate ompliance with the requirements of the Standard. Requirement: FFDRo < 2.52 Compliant (EPA + DHA) < 30 g/kg feed d. For option #1, calculate FFDRo using formulas in Appendix IV-1 and using the eFCR calculated under 4.2.1c. Previous full cycle 2015G: FFDRo 1,6095 Applicability: All e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2. Option 1 f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle. Not seen FFDRo submitted to ASC. [52] Calculation excludes DHA and EPA derived from fisheries by-products and trimmings. Trimmings are defined as by-products when fish are processed for human consumption or if whole fish is rejected for use of human consumption because the quality at the time of landing do official regulations with regard to fish suitable for human consumption. Fishmeal and fish oil that are produced from trimmings can be excluded from the calculation as long as the origin of the trimmings of any species that are deadsired as critically endangered, endangered or vulnerable in the IUCN Red List of Threatened Species (http://www.iucn Criterion 4.3 Source of marine raw materials Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions): ndicator: Timeframe for all fishmeal and fish oil used i eed 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 equirement: Not required Applicability: N/A [53] This standard and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fisheries where the catch is directly reduced (including krill) and not to by-products or trimmings used in feed Footnote [54] Meets ISEAL guidelines as demonstrated through full membership in the ISEAL Alliance, or equivalent as determined by the Technical Advisory Group of the ASC.



| 4.3.2 | Indicator: Prior to achieving 4.3.1, the FishSource score [55] for the fishery(ies) from which all marine raw material in feed is derived Requirement: All individual scores ≥ 6, and biomass score ≥ 6 Applicability: All | Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed To determine FishSource scores of the fish species used as feed ingredients, do the following to thisty/lwww.fishsource.org/ - to thisty/lwww.fishsource.org/ - tope this species into the search function box and choose the accurate fishery - confirm that the search identifies the correct fishery then scroil down or click on the link fro For first audits, farms must have scoring records that cover all feeds purchased during the pr Note: Indicator 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fist - trimmings used in feed. a. Record FishSource score for each species from which fishmeal or fish oil was derived and used as a feed ingredient (all species listed in 4.2.1a). b. Confirm that each individual score ≥ 6 and the biomass score is ≥ 6. | om the menu on the left reads "Scores" revious 6-month period. theries where the catch is directly reduced (including krill) and not to by-products or Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016. | Compliant | Not seen FishSource score of Sprat. Not seen independent assessment of sprat. Jan Petter Kosmo 13.03.2018; Closed. | |
|----------------------|---|---|--|-------------------|---|--------------|
| | | c. If the species is not on the website it means that a FishSource assessment is not available. Client on 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. | Not seen FishSource score of Sprat. Not seen independent assessment of sprat. All have scores except Sprat. | | Sprat used in feed >6 months ago, this is first audit. | |
| Footnote | | [55] Or equivalent score using the same methodology. See | Appendix IV-3 for explanation of FishSource scoring. | | | |
| 4.3.3 | Indicator. Prior to achieving 4.3.1, demonstration of third-party verified chain of custody and traceability for the batches of fishmeal and fish oil which are in compliance with 4.3.2. Requirement. Yes | Instruction to Clients for Indicator 4.3.3 - Third-Party Verification of Traceability indicator 4.3.3 requires that farms show that their feed producers can demonstrate chain of from audits of feed producers (see 4.1.1c) as evidence that traceability systems are in compli- requirements of indicator 4.3.3 by submitting evidence that suppliers, and the batches of fis Standard for Responsible Supply or to the Marine Stewardship Council Chain of Custody Star For the first audit, a minimum of 6 months of data on feed is required and evidence shall rel | liance. Alternatively, farms may show that their feed producers comply with traceability hmeal and oil, are certified to the International Fishmeal and Fish Oil Organization's Global ndard. | | | |
| | Applicability: All | a. Obtain from the feed supplier documentary evidence that the origin of all fishmeal and fish oil used in the feed is traceable via a third-party verified chain of custody or traceability program. | Skretting: GlobalG.A.P. Certified, GGN: 4050373823641, valid to 22.06.2018. | Compliant | | |
| | | b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a). | Skretting : GlobalG.A.P. Certified, GGN : 4050373823641, valid to 22.06.2018. | | | |
| | Indicator: Feed containing fishmeal and/or fish oil | a. Compile and maintain, consistent with 4.2.1a and 4.2.2a, a list of the fishery of origin for all fishmeal and fish oil originating from by-products and trimmings. | List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway" includes by-products and trimmings | | | |
| 4.3.4 | originating from by-products [56] or trimmings from IUU [57] cathor from fish species that are categorized as swulnerable, 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] | b. Obtain a declaration from the feed supplier stating that no fishmeal or fish oil originating from IUU catch was used to produce the feed. | List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway" includes by-products and trimmings. | Compliant | | |
| | | c. Obtain from the feed supplier declaration that the meal or oil did not originate from a species categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58] and explaining how they are able to demonstrate this (i.e. through other certification scheme or through their independent audit). | List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway" includes by-products and trimmings | | | |
| | | d. If meal or oil originated from a species listed as "vulnerable" by IUCN, obtain documentary evidence to support the exception as outlined in [59]. | Not from vulnerable fisheries | | | |
| | Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for marine ingredients that includes a commitment to continuous | a. Request a link to a public policy from the feed manufacturer stating the company's support of efforts to shift feed manufacturers purchases of fishmeal and fish oil to fisheries certified under a scheme that is an ISEAL member and has guidelines that specifically promote responsible environmental management of small pelagic fisheries and committing to continuous improvement of source fisheries. | Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016. List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skreting Norway". Blue whiting (NE Atlantic) MSC certified, Herring, Mackerel, Norway Pout, Sandeel, Sardine, Sprat, Peruvian Anchoveta, Capelin (Icelandic). | | | |
| 4.3.5 | improvement of source fisheries Requirement: Yes Applicability: All | b. Prepare a letter stating the farm's intent to source feed containing fishmeal and fish oil originating from fisheries certified under the type of certification scheme noted in indicator 4.3.1. | Statement regarding feed raw material sources, 05.01.2018 signed Odd Strøm - Nova Sea AS. | Compliant | | |
| | | c. Compile a list of the origin of all fish products used as feed ingredients in all feed. | List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway" includes by-products and trimmings | | | |
| Footnote | [56] Trimmings are defined as by-products when | fish are processed for human consumption or if whole fish is rejected for use of human consu | imption because the quality at the time of landing does not meet official regulations with reg | ard to fish suita | able for human consumpti | on. |
| Footnote Footnote | | [57] IUU: Illegal, Unregula [58] The International Union for the Conservation of Nature | *************************************** | | | |
| Footnote | | tion is made if a regional population of the species has been assessed to be not vulnerable in nanaged in accordance with IUCN guidelines, an exception is allowed when an assessment is or Criterion 4.4 Source of non-marine ron | a National Red List process that is managed explicitly in the same science-based way as IUCN conducted using IUCN's methodology and demonstrates that the population is not vulnerable w moteriols in feed | | e a National Red List does | n't exist or |
| | | Compliance Criteria (Required Client Actions): | Auditor Evaluation (Required CAB Actions): | | | |
| | 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] | | 2015G: 99% Svetting and 3/EWOS. 2017G: 100% Svetting Skretting: www.skretting.com EWOS: www.cargill.com | | | |
| 4.4.1 | Requirement: Yes Applicability: All | 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. | "Nutreco Supplier Code of Conduct" per June 2014 | Compliant | | |
| | | c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible sourcing policies are implemented. | Skretting: GlobalG.A.P. Certified, GGN: 4050373823641, valid to 22.06.2018. | | | |
| Footnote | [60] Moratorium: A period of time in which there is a su | spension of a specific activity until future events warrant a removal of the suspension or issue defined geograph | see regarding the activity have been resolved. In this context, moratoriums may refer to suspenical regions. | nsion of the gro | owth of defined agricultur | al crops in |
| Footnote | [61] Specifically, the policy shall include that vegetable | ingredients, or products derived from vegetable ingredients, must not come from areas of th | e Amazon Biome that were deforested after July 24, 2006, as geographically defined by the B | razilian Soy Mo | oratorium. Should the Bra | zilian Soy |
| | | 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. | uurement shall be reconsidered. Statement regarding feed raw material sources, 05.01.2018 signed Odd Strøm - Nova Sea AS. | | | |
| | Indicator: Percentage of soya or soya-derived ingredients in the feed that are certified by the | b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent) | Statement regarding feed raw material sources, 05.01.2018 signed Odd Strøm - Nova Sea AS. | | | |
| 4.4.2 | Roundtable for Responsible Soy (RTRS) or equivalent [62] | c. Notify feed suppliers of the farm's intent (4.4.2b). | Feed suppliers informed of relevant ASC requirements in mail to Skretting 09.11.2017. | Compliant | | 100 % |



| | Requirement: 100% Applicability: All | d. Obtain and maintain declaration from feed supplier(s) detailing the origin of soya in the feed. | Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016, includes information regarding soya. | | | |
|----------|---|--|--|-------------|--|------------------------------|
| | | e. Provide evidence that soya used in feed is certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62] | Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016, purchase soya which originate from ProTerra. | | | |
| Footnote | | [62] Any alternate certification scheme would have to be approve | ed as equivalent by the Technical Advisory Group of the ASC. | | | |
| | Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw | a. Obtain from feed supplier(s) a declaration detailing the content of soya and other plant raw materials in feed and whether it is transgenic. | Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016, no genetically feed raw materials are approved under Norwegian law. | | Not seen confirmation that the farm has | |
| 4.4.3 | material, or raw materials derived from transgenic plants, in the feed Requirement: Yes, for each individual raw material containing > 1% transgenic content [65] | b. Disclose to the buyer(s) a list of any transgenic plant raw material in the feed and maintain documentary evidence of this disclosure. For first audits, farm records of disclosures must cover > 6 months. | Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016, no genetically feed raw materials are approved under Norwegian law. | Compliant | informed ASC whether feeds containing transgenic ingredients are use on farm. Jan Petter Kosmo | |
| | Applicability: All | c. Inform ASC whether feed contains transgenic ingredients (yes or no) as per Appendix VI for each production cycle. | Not seen confirmation that the farm has informed ASC whether feeds containing transgenic ingredients are use on farm. | | 13.03.2018: Closed | |
| Footnote | [63] The compan | y or entity to which the farm or the producing company is directly selling its product. This sta | ndard requires disclosure by the feed company to the farm and by the farm to the buyer of the | eir salmon. | | |
| Footnote | [64] Transge | nic: Containing genes altered by insertion of DNA from an unrelated organism. Taking genes | from one species and inserting them into another species to get that trait expressed in the of | spring. | | |
| Footnote | | [65] See Appendix VI for transpai Criterion 4.5 Non-biological waste | | | | |
| | | Compliance Criteria (Required Client Actions): | Auditor Evaluation (Required CAB Actions): | | | |
| | | 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. | Statement Nova Sea signed Odd Strøm 29.11.2017 states no dumping and waste disposal according to Norwegian law and delivered to recycling stations. | | | |
| | Indicator: Presence and evidence of a functioning policy for proper and responsible [66] treatment of non- | b. Prepare a declaration that the farm does not dump non-biological waste into the ocean. | Statement Nova Sea signed Odd Strøm 29.11.2017 states no dumping and waste disposal according to Norwegian law and delivered to recycling stations. | | | |
| 4.5.1 | biological waste from production (e.g., disposal and recycling) 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. | Procedure "Avfallshåndtering sjø" 24.01.2018 states ensilage delivered to Scanbio, cages delivered to Østbø (and further to Nofir), nets to Østbø/Egersund Net (and further to Nofir), feed bags delivered to SAR/Everus SHMI, special waste delivered to Østbø, metal delivered to Østbø/Retura SHMI, household waste delivered to Retura iris/Retura HAF/Østbø, electronic waste delivered to Østbø/Retura SHMI. light bulbs delivered to Østbø/Retura SHMI. Procedure also describes storing, delivery time and handling. Medicines/treatments should be delivered to supplier/pharmacy. | Compliant | | |
| | | d. Provide a description of the types of waste materials that are recycled by the farm. | Cages/feed pipes delivered to Østbø (and further to Nofir for recycling). Nets/ropes to Østbø/Egersund Net (and further to Nofir for recycling). | | | |
| Footnote | [66] Proper and responsible disposal will vary based on fa biological waste into the ocean does not represent "prop | cilities available in the region and remoteness of farm sites. Disposal of non-biological waste er and responsible" disposal. | shall be done in a manner consistent with best practice in the area. Dumping of non- | | | |
| | | 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) | Procedure "Avfallshåndtering sjø" 24.01.2018 states ensilage delivered to ScanBio, cages delivered to Østbø (and further to Nofir), nets bø Østbø/Egersund Net (and further to Nofir), feet bøgs delivered to SARJetura SHMI, speld waste delivered to Østbø, metal delivered to Østbø/Retura SHMI, household waste delivered to Retura iris/Retura HAF/Østbø, elektronic waste delivered to Østbø/Retura SHMI, light bulbs delivered to Østbø/Retura SHMIL. Procedure also describes storing, delivery time and handling. Medicines/treatments should be delivered to supplier/pharmacy. | | | |
| | Indicator: Evidence that non-biological waste (including net pens) from grow-out site is either disposed of properly or recycled | b. Provide a description of the types of waste materials that are recycled by the farm. (See also 4.5.1d) | Cages/feed pipes delivered to Østbø (and further to Nofir for recycling). Nets/ropes to Østbø/Egersund Net (and further to Nofir for recycling). | | | |
| 4.5.2 | Requirement: Yes | c. Inform the CAB of any infractions or fines for improper waste disposal received during the previous 12 months and corrective actions taken | No infractions identified. | Compliant | | |
| | Applicability: All | d. Maintain records of disposal of waste materials including old nets and cage equipment. | Nets delivered to Egersund Net (dep. Vevelstad), e.g. receipt from Egersund Net shows delivery of 15 nets 13.03.2017, 16 nets 19.06.2017 and 12 nets 0.11.1.2017 environment fighom 2016 for Nova Sea by Noffir, delivered 40079 kg fish farming nets (decrease in non-renewable resources is about 68.134 kg oil equivalents, decrease in carbon footprint is about 144.284 kg CO2 equivalents). Report from %tbsf for the period 01.01.2017 - 31.12.2017, delivered from Rødøy (Renga and Bukkya); oil 613 liter, diesel 374 liter, oil filters 100 kg, led batteries 940 kg, small batteries 276 kg. Declared from Rødøy (Renga and Bukkøya) at "www.avfallsdeklarering.no" 18.11.2018: led batteries 940 kg, oil 613 liter, diesel 374 liter, oil filters 100 kg, small batteries 276 kg. | | | |
| | | Criterion 4.6 Energy consumption and greenhous Compliance Criteria (Required Client Actions): | se gas emissions on farms [67] Auditor Evaluation (Required CAB Actions): | | | |
| Footnote | | [67] See Appendix VI for transparency rec | | | | |
| | | is applying for certification. Boundaries for operational energy use should correspond to the Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farr energy use assessments across the board in the company. For the purposes of calculating energy consumption, the duration of the production cycle is | The scope of this requirement is restricted to operational energy use for the farm site(s) that it sources of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to in) is not required. However the SAO Steering Committee encourages companies to integrate the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms onsumption if possible. Quantities of energy (fluel and electricity) are converted to kilojoules. reporate Standard or ISO 14064-1 (see Appendix V-1 for more details). | | | |
| | Indicator: Presence of an energy use assessment verifying the energy consumption on the farm and representing the whole life cycle at sea, as outlined in Appendix V-1 | Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle. | Last production cycle (2015G): Diesel 6 719 000 000 kl Electricity 46 000 000 kl Total 6 765 309 875 kl (Scope 1: 6 719 000 000 kl, Scope 2: 46 000 000 kl) | | | |
| 4.6.1 | Requirement: Yes, measured in kilojoule/t fish produced/production cycle Applicability: All | b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle. | Last production cycle (2015G): Diesel 6 739 000 000 kl Electricity 46 000 000 kl Total 6 765 309 875 kl (Scope 1: 6 719 000 000 kl, Scope 2: 46 000 000 kl) | | | |
| | | c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. | 4 276,8 ton biomass | Compliant | k | 581 854 kJ/ton piomass |
| | | d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle. | Last production cycle (2015G): 1 581 854 kJ/ton biomass | | | |
| | | e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle. | Submitted to ASC 09.02.2018 | | | |
| | | f. Ensure that the farm has undergone an energy use assessment that was done in compliance with requirements of Appendix V-1. | Scope 1 Diesel. Scope 2 Electricity. Assessed and compared between sites and production forms. | | | |
| | | | | | l | |



| | | Instruction to Clients for Indicator 4.6.2 - Annual GHG Assessment Indicator 4.6.2 requires that farms must have an annual Greenhouse Gas (GHG) assessment this requirement is restricted to operational boundaries for the farm site(s) that is applying GHG accounting practices across the board in the company. Verification may be done by int 14064-1 (see Appendix V-1 for more details). Note: For the purposes of this standard, GHGs are defined as the six gases listed in the Kyot | for certification. However the SAD Steering Committee encourages companies to integrate ernal or external assessment following either the GHG Protocol Corporate Standard or ISO | | | |
|--|--|--|--|---|--|-------------------|
| | | (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF ₆). | | | | |
| | Indicates December of control of | a. Maintain records of greenhouse gas emissions on the farm. | Records verified. | | | |
| 4.6.2 | Indicator: Records of greenhouse gas (GHG [68]) emissions [69] on farm and evidence of an annual GHG assessment, as outlined in Appendix V-1 Requirement: Yes | b. At least annually, calculate all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1. | Last production cycle (156): Scope 1: 494 272 kg CO2 Scope 2: 749 kg CO2 Total: 495 CO2 lag CO2 | | | |
| | Applicability: All | c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors. | Scope 1 diesel and scope 2 is purchased electricity. | Compliant | | 495 021 kg CO2 |
| | | 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. | CO2 used | | | 602 |
| | | e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year. | Submitted to ASC 09.02.2018 | = | | |
| | | f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually. | Calculations and assessments provided. | | | |
| Footnote | [68] For the purposes of this sta | ndard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO ₂); n | nethane (CH4); nitrous oxide (N ₂ O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and | sulphur hexaflu | ioride (SF ₆). | |
| Footnote | | [69] GHG emissions must be recorded using recognized met | hods, 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, subsections | from their feed supplier(s) and thereafter maintain a continuous record of Feed GHG emissi production cycle. Therefore farms should inform their feed supplier(s) and: the farm provides its feed suppliers with detailed information about the requirements incl the farm explain what analyses must be done by feed suppliers; and the farm explains to feed suppliers what documentary evidence will be required by the far | uding a copy of the methodology outlined in Appendix V, subsection 2; In to demonstrate compliance. It is not produce the salmon (by weight) rather than using feed composition on a lot-by- | | | |
| 4.6.3 | Requirement: Yes | a. Obtain from feed supplier(s) a declaration detailing the GHG emissions of the feed (per | Skretting GHG emission factor 1,97 (2016). | | | |
| | Applicability: All | kg feed). b. Multiply the GHG emissions per unit feed by the total amount of feed from each supplier | Last production cycle (2015G): 4747 ton feed. | - | | |
| | | used in the most recent completed production cycle. c. If client has more than one feed supplier, calculate the total sum of emissions from feed | Last production cycle (2015G): 9352 ton CO2. | Compliant | | 9352 ton CO2 |
| | - | by summing the GHG emissions of feed from each supplier. d. Submit GHG emissions of feed to ASC as per Appendix VI for each production cycle. | Submitted to ASC 09.02.2018 | - | | |
| | [70] GUG amirrians from food can be given based on the | | umentation linked to each single product used during the production cycle. Feed manufacture | or is responsible | o for calculating GUG omi | rrionr nor |
| | [70] Grid Chinasions from recureur be given based on a | | | ci is responsibile | Tor carculating or to critis | 3310113 pc1 |
| Footnote | | | ssions for the volume of feed they used in the prior production cycle. | | | |
| | | Criterion 4.7 Non-therapeutic chemi Compliance Criteria (Required Client Actions): | ssions for the volume of feed they used in the prior production cycle. Cal inputs [71,72] Auditor Evaluation (Required CAB Actions): | I | | |
| Footnote Footnote | | Criterion 4.7 Non-therapeutic chemi | ssions for the volume of feed they used in the prior production cycle. cal inputs [71,72] Auditor Evaluation (Required CAB Actions): ulants shall be considered exempt from standards under Criterion 4.7. | | | |
| Footnote | | Criterion 4.7 Non-theropeutic chemi Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antifo | ssions for the volume of feed they used in the prior production cycle. cal inputs [71,72] Auditor Evaluation (Required CAB Actions): ulants shall be considered exempt from standards under Criterion 4.7. | | | |
| Footnote | Indicator. For farms that use copper-treated nets [73], evidence that nets are not cleaned [74] or treated in situ in the matine environment. | Criterion 4.7 Non-therapeutic chemic Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antiform that the control of the c | ssions for the volume of feed they used in the prior production cycle. cal inputs [71,72] Auditor Evaluation (Required CAB Actions): ulants shall be considered exempt from standards under Criterion 4.7. quirements for 4.7.1, 4.7.3 and 4.7.4. Procedure "Vaskebåt" 26.10.2016 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure "Neter, drift og vedlikehold" 23.01.2018 regarding control and records | | Not seen farm policy and practice not allowing beauty dearlines. | |
| Footnote | | Criterion 4.7 Non-therapeutic chem Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antifo [72] See Appendix VI for transparency rec a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping. | sions for the volume of feed they used in the prior production cycle. cal inputs [71,72] Auditor Evaluation (Required CAB Actions): ulants shall be considered exempt from standards under Criterion 4.7. guirements for 4.7.1, 4.7.3 and 4.7.4. Procedure "Vaskebåt" 26.10.2016 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure "Nater, drift og vedlikehold" 23.01.2018 regarding control and records ("Havbruksloggen"), washing and off-site service, maintenance, etc. | Compliant | and practice not allowing heavy cleaning for copper-treated nets in situ. Jan Petter Kosmo | |
| Footnote Footnote | evidence that nets are not cleaned [74] or treated in situ in the marine environment | Criterion 4.7 Non-therapeutic chem Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use entire [72] See Appendix VI for transparency ret 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. | scions for the volume of feed they used in the prior production cycle. cal inputs [71,72] Auditor Evaluation (Required CAB Actions): ulants shall be considered exempt from standards under Criterion 4.7. quirements for 4.7.1, 4.7.3 and 4.7.4. Procedure "Vaskebåt" 26.10.2016 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure "Neter, drift og vedlikehold" 23.01.2018 regarding control and records ("Havbruksloggen"), washing and off-site service, maintenance, etc. Smolt nets treated with "E5 Greenline", nets for large fish untreated. | Compliant | and practice not allowing heavy cleaning for copper-treated nets in situ. | |
| Footnote Footnote | evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes | Criterion 4.7 Non-therapeutic chem Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antifo [72] See Appendix VI for transparency rev 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. c. Dedare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that | scions for the volume of feed they used in the prior production cycle. cal imputs [71,72] Auditor Evaluation (Required CAB Actions): ulants shall be considered exempt from standards under Criterion 4.7. putrements for 4.7.1, 4.7.3 and 4.7.4. Procedure "Vaskebåt" 26.10.2016 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure" Noter, drift og vedlikehold" 23 01.2018 regarding control and records ("Habruskioggen"), washing and off-site service, maintenance, etc. Smolt nets treated with "ES Greenline", nets for large fish untreated. Copper-based treatment on 3 of 10 nets. Not seen farm policy and practice not allowing heavy cleaning for copper-treated nets in | Compliant | and practice not allowing heavy cleaning for copper-treated nets in situ. Jan Petter Kosmo | |
| Footnote Footnote | evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes Applicability: All farms except as noted in [71] [73] Under the SAD, "copper-treated net" is defined as a | Criterion 4.7 Non-therapeutic chem Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nest and do not use antifo [72] See Appendix VI for transparency rec 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. c. Dedare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ. e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle. | sions for the volume of feed they used in the prior production cycle. cal inputs [71,72] Auditor Evaluation (Required CAB Actions): ulants shall be considered exempt from standards under Criterion 4.7. putrements for 4.7.1, 4.7.3 and 4.7.4. Procedure "Vaskebåt" 26.10.2016 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure" Nater, drift og vedlikehold" 23.01.2018 regarding control and records ("Habruskioggen"), washing and off-site service, maintenance, etc. Smolt nets treated with "E5 Greenline", nets for large fish untreated. Copper-based treatment on 3 of 10 nets. Not seen farm policy and practice not allowing heavy cleaning for copper-treated nets in situ. | ased facility sin | and practice not allowing heavy cleaning for copper-treated nets in situ. Jan Petter Kosmo 13.03.2018: Closed | rms that use |
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| Footnote Footnote 4.7.1 Footnote | evidence that nets are not cleaned [74] or treated in situ in the marine environment. Requirement: Yes Applicability: All farms except as noted in [71] [73] Under the SAD, "copper-treated net" is defined as a nets that have, at some point prior in their lifespan, been [74] Light cleaning of nets is allowed. Intent of the indicator: For any farm that cleans nets at on-land sites, evidence that net-cleaning sites have effuent treatment [75] | Criterion 4.7 Non-therapeutic chem Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nest and do not use antifo [72] See Appendix VI for transparency rev 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. c. Dedare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of cooper-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. net that has been treated with any copper-containing substance (such as a copper-based and treated with copper may still consider nets as untreated so long as sufficient time and clean the standard is that, for example, the high-pressure underwater washers could not be used on Declare to the CAB whether nets are cleaned on-land. | scions for the volume of feed they used in the prior production cycle. col inputs [71,72] Auditor Evaluation (Required CAB Actions): ulants shall be considered exempt from standards under Criterion 4.7. quirements for 4.7.1, 4.7.3 and 4.7.4. Procedure "Vaskebåt" 26.10.2016 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure "Netse, drift og vedlikehold" 23.01.2018 regarding control and records ("Havbruksloggen"), washing and offi-site service, maintenance, etc. Smolt nets treated with "E5 Greenline", nets for large fish untreated. Copper-based treatment on 3 of 10 nets. Not seen farm policy and practice not allowing heavy cleaning for copper-treated nets in situ. Submitted to ASC 09.02.2018 Idoulant) during the previous 18 months, or has not undergone thorough cleaning at a landbing has elapsed as in this definition. This will allow farms to move away from use of copper we not prepared to the competition of the c | ased facility sinthout immediately type of heavy of | and practice not allowing heavy cleaning for copper-treated nets in situ. Jan Petter Kosmo 13.03.2018: Closed | rms that use |
| Footnote Footnote 4.7.1 Footnote | evidence that nets are not cleaned [74] or treated in situ in the manine environment. Requirement: Yes Applicability: All farms except as noted in [71] [73] Under the SAD, "copper-treated net" is defined as a nets that have, at some point prior in their lifespan, been [74] Light cleaning of nets is allowed. Intent of the lifespan of the lifespa | Criterion 4.7 Non-therapeutic chem Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nest and do not use entito [72] See Appendix VI for transparency rec 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. c. Declare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ. e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle. net that has been treated with any copper-containing substance (such as a copper-based and treated with copper may still consider nets as untreated so long as sufficient time and clean the standard is that, for example, the high-pressure underwater washers could not be used on a Declare to the CAB whether nets are cleaned on-land. b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place. 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. | Sidens for the volume of feed they used in the prior production cycle. Col Imputs [71,72] Auditor Evaluation (Required CAB Actions): Jamas shall be considered exempt from standards under Criterion 4.7. Quirements for 4.7.1, 4.7.3 and 47.4. Procedure "Naskebát" 26.10.2015 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure "Naskebát" 26.10.2015 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure "Nater, drift og vedlikehold" 23.01.2018 regarding control and records ("Havbruksloggen"), washing and off-site service, maintenance, etc. Smolt nets treated with "E5 Greenline", nets for large fish untreated. Copper-based treatment on 3 of 10 nets. Not seen farm policy and practice not allowing heavy cleaning for copper-treated nets in situ. Submitted to ASC 09.02.2018 idoulant) during the previous 18 months, or has not undergone thorough cleaning at a land-bing has elapsed as in this definition. This will allow farms to move away from use of copper with the component of the procedure from Egersund net "Máling og registrering av inntaks- og avlippsvann fra renseanlegs" 20.05.2017 states the shall not discharge waste water containing more copper than intake water contains. Egersund Net washing process 05.12.2017: Waste water cleaned and copper collected and delivered to Retura Shmil for recycling. Copper sedimented in own tank and stored for further disposal. Waste water is analyzed regularly for copper to ensure good cleaning process. Analyze record for 2017 shows effluent treatment of waste water. Egersund Net washing process 05.12.2017: Waste water cleaned and copper collected and delivered to Retura Shmil for recycling. Copper sedimented in own tank and stored for further disposal. Waste water is analyzed regularly for copper to ensure good cleaning process. Analyze record for 2017 shows effluent treatment of waste water. Egersund Net washing process 05.12.2017: Waste water cleaned and copper collected and delivered to Retura Shmill or recycling. Copp | ased facility sinthout immediately type of heavy of | and practice not allowing heavy cleaning for copper-treated nets in situ. Jan Petter Kosmo 13.03.2018: Closed | rms that use |
| Footnote Footnote 4.7.1 Footnote 4.7.2 | evidence that nets are not cleaned [74] or treated in situ in the manine environment. Requirement: Yes Applicability: All farms except as noted in [71] [73] Under the SAD, "copper-treated net" is defined as a nets that have, at some point prior in their lifespan, been [74] Light cleaning of nets is allowed. Intent of the lifespan of the lifespa | Criterion 4.7 Non-therapeutic chem Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nest and do not use entito [72] See Appendix VI for transparency rec 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. c. Declare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ. e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle. net that has been treated with any copper-containing substance (such as a copper-based and treated with copper may still consider nets as untreated so long as sufficient time and clean the standard is that, for example, the high-pressure underwater washers could not be used on a. Declare to the CAB whether nets are cleaned on-land. b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place. 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. | Sidens for the volume of feed they used in the prior production cycle. Col Imputs [71,72] Auditor Evaluation (Required CAB Actions): Jamas shall be considered exempt from standards under Criterion 4.7. Quirements for 4.7.1, 4.7.3 and 47.4. Procedure "Naskebát" 26.10.2015 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure "Naskebát" 26.10.2015 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure "Nater, drift og vedlikehold" 23.01.2018 regarding control and records ("Havbruksloggen"), washing and off-site service, maintenance, etc. Smolt nets treated with "E5 Greenline", nets for large fish untreated. Copper-based treatment on 3 of 10 nets. Not seen farm policy and practice not allowing heavy cleaning for copper-treated nets in situ. Submitted to ASC 09.02.2018 idoulant) during the previous 18 months, or has not undergone thorough cleaning at a land-bing has elapsed as in this definition. This will allow farms to move away from use of copper with the component of the procedure from Egersund net "Máling og registrering av inntaks- og avlippsvann fra renseanlegs" 20.05.2017 states the shall not discharge waste water containing more copper than intake water contains. Egersund Net washing process 05.12.2017: Waste water cleaned and copper collected and delivered to Retura Shmil for recycling. Copper sedimented in own tank and stored for further disposal. Waste water is analyzed regularly for copper to ensure good cleaning process. Analyze record for 2017 shows effluent treatment of waste water. Egersund Net washing process 05.12.2017: Waste water cleaned and copper collected and delivered to Retura Shmil for recycling. Copper sedimented in own tank and stored for further disposal. Waste water is analyzed regularly for copper to ensure good cleaning process. Analyze record for 2017 shows effluent treatment of waste water. Egersund Net washing process 05.12.2017: Waste water cleaned and copper collected and delivered to Retura Shmill or recycling. Copp | ased facility sinthout immediately type of heavy of | and practice not allowing heavy cleaning for copper-treated nets in situ. Jan Petter Kosmo 13.03.2018: Closed | rms that use |



| | sediment outside of the AZE, 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. 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. | Reference stations: ASC ref 1 (31,1 mg Cu/kg) and ASC ref 2 (30,3 mg Cu/kg) Stations outside AZE: ASC 3 (43,7 mg Cu/kg) and ASC 4 (37,1 mg Cu/kg) MOM-C not performed at peak biomass (at >75% peak biomass) last production cycle. Guidance: Veileder TA 2229-2007 "Veileder for klassifisering av miljøkvalitet i fjorder og kystfarvann" Statens forurensingstilsyn. Method: EPA 200.7, ISO 11885, EPA 6010 and SM 3120. | Minor | at peak biomass (at >75% peak biomass) last production cycle. Jan Petter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted | |
|--------------|--|---|---|------------------|--|--------------|
| | 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 | 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. | ASC survey by AquaKompetanse October 2017 (field work 01.11.2017), report 279-11-17C RENGA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. freference stations: ASC ref a and ASC ref 2, stations outside AZE: ASC 3 and ASC 4, stations inside AZE: ASC 1 and ASC 2). | | Copper level are >34 | |
| 4.7.4 | | b. Provide evidence from measurements taken in 4.7.3b that copper levels are < 34 mg Cu/kg dry sediment weight. | Copper level are >34 mg Cu/kg dry sediment: Reference stations: ASC ref 1 (31,1 mg Cu/kg) and ASC ref 2 (30,3 mg Cu/kg) Stations outside AZE: ASC 3 (43,7 mg Cu/kg) and ASC 4 (37,1 mg Cu/kg) | Minor | mg Cu/kg dry sediment: Stations outside AZE: ASC 3 (43,7 mg Cu/kg) and ASC 4 (37,1 mg Cu/kg) | Min. 37,1 |
| | | c. If copper levels in 4.7.4b are \geq 34 mg Cu/kg dry sediment weight, provide evidence the farm tested copper levels in sediments from reference sites as described in Appendix I-1 (also see Indicators 2.1.1 and 2.1.2). | Copper level are >34 mg Cu/kg dry sediment: Reference stations: ASC ref 1 [31,1 mg Cu/kg] and ASC ref 2 (30,3 mg Cu/kg) Stations outside AZE: ASC 3 (43,7 mg Cu/kg) and ASC 4 (37,1 mg Cu/kg) | | Jan Petter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted | |
| | 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. | Copper level are -34 mg Cu/kg dry sediment: Reference stations: ASC ref 1 (31,1 mg Cu/kg) and ASC ref 2 (30,3 mg Cu/kg) Stations outside AZE: ASC 3 (43,7 mg Cu/kg) and ASC 4 (37,1 mg Cu/kg) | | | |
| ļ | | e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle. | Submitted to ASC 09.02.2018 | | | |
| Footnote | Indicator: Evidence that the type of biocides used in net antifouling are approved according to legislation in the | [76] According to testing required under 4.7.3. The standards related to testing of copp a. Identify all biocides used by the farm in net antifouling. | er are only applicable to farms that use copper-based nets or copper-treated nets. Smolt nets treated with "ES Greenline", nets for large fish untreated. | | | |
| 4.7.5 | European Union, or the United States, or Australia Requirement: Yes Applicability: All farms except as noted in [71] | b. Compile documentary evidence to show that each chemical used in 4.7.5a is approved according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia. | Netwax E5 Greenline is satisfying declared (700111) according to product information record at Norwegian Environment Agency. | Compliant | | |
| PRINCIPLE 5: | MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTA | ILLY RESPONSIBLE MANNER | | | | |
| | | Criterion 5.1 Survival and health of Compliance Criteria (Required Client Actions): | farmed fish [77] Auditor Evaluation (Required CAB Actions): | | | |
| Footnote | | [77] See Appendix VI for transparency rec | | | | |
| | Indicator: Evidence of a fish health management plan for the identification and monitoring of fish diseases, parasites and environmental conditions relevant for good fish health, including implementing corrective | a. Prepare a fish health management plan that incorporates components related to identification and monitoring of fish disease and parasites. This plan may be part of a more comprehensive farm planning document. | VHP for Nova Sea includes diseases/parasites, treatments, health goals, cleaner fish, proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - HaVet 23 ol. 2017. Site specific health plans for Bukkøya and Renga with goals, visit log, etc. Signed Rebekka B. Ødegaard - HaVet. | | | |
| | .1.1 action when required Requirement: Yes | b. Ensure that the farm's current fish health management plan was reviewed and approved by the farm's designated veterinarian [78]. | VHP for Nova Sea includes diseases/parasites, treatments, health goals, cleaner fish, proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - Halvet 23.01.2017. Sits especific health plans for Bukkøya and Renga with goals, visit log, etc. Signed Rebekka B. Ødegaard - Halvet. | Compliant | | |
| | | Maintain records of visits by the designated veterinarian [78] and fish health managers [82]. If schedule cannot be met, a risk assessment must be provided. | Minimum 12 visits per year. Visit by designated veterinarian consist of e.g. inspection of fish and dead fish, diagnose, training, etc. Report from routine visit 30.11.2017 by Kristin Ottesen - HaVet; obduction of fish, samples, vaccine score, diagnosed HSMB | | | |
| 5.1.2 | Indicator: Site visits by a designated veterinarian [78] at least four times a year, and by a fish health manager [79] at least once a month Requirement: Yes | b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79]. | Iselin B. Stock Eyje, HPR 10032014, valid to 17.05.2063 Mattias Bendiksen Lund, HPR 10030512, valid to 19.01.2065 Kristin Ottesen, HPR 8338485, valid to 10.05.2048 Rebekka B. Ødgeard, HPR 10032073, valid to 14.09.2061 Ioan Simion, HPR 10002007, valid to 09.01.2062 | Compliant | | |
| , | Applicability: All | c. Maintain records of the qualifications of persons identified in 5.1.2b. | Iselin B. Stock Eyje, HPR 10032014, valid to 17.05.2063 Mattias Bendiksen Lund, HPR 10030512, valid to 19.01.2065 Kristin Ottssen, HPR 8338485, valid to 10.05.2048 Rebekk B. Ø. degard, HPR 10032073, valid to 14.09.2061 Ioan Simion, HPR 10002007, valid to 09.01.2062 | | | |
| Footnote | [78] A designated veterinarian is the professional respon | sible for health management on the farm who has the legal authority to diagnose disease an and is equivalent to a veterinarian for purposes of these standards. This definition a | d prescribe medication. In some countries such as Norway, a fish health biologist or other pro applies to all references to a veterinarian throughout the standards document. | efessional has e | quivalent professional qu | alifications |
| Footnote | [79] A fish health ma | nager is someone with professional expertise in managing fish health, who may work for a fa | rming company or for a veterinarian, but who does not necessarily have the authority to pres | cribe medicine | | |
| | | A. Maintain records of mortality removals to show that dead fish are removed regularly and disposed of in a responsible manner. | Daily removal of dead fish (registration in FishTalk system) and processed to ensilage. | | | |
| 5.1.3 | Indicator: Percentage of dead fish removed and disposed of in a responsible manner Requirement: 100% [80] Applicability: All | b. Collect documentation to show that disposal methods are in line with practices recommended by fish health managers and/or relevant legal authorities. | System established for handling and documentation according to requirements in national legislation handled by NFSA. Ensilage collected on tank and delivered to Scanbio, e.g. delivery of 20,9 cubic ensilage to Scanbio 04.10.2014 (reference 012942). | Compliant | Not seen documentation of delivery of ensilage after 2014. Jan Petter Kosmo 13.03.2018: Closed | |
| | | c. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification. | No exceptional mortalities on previous and current cycle (2017G). | | | |
| Footnote | [80] | The SAD recognizes that not all mortality events will result in dead fish present for collection | and removal. However, such situations are considered the exception rather than the norm. | | | |
| | | Note: Farms are required to maintain mortality records from the current and two previous prequired. It is recommended that farms maintain a compiled set of records to demonstrate compilant | | | | |
| | | 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). | FishTalk record shows all mortalities and causes Last complete cycle (15G): total mortality 5,52% of this 12,96% is virus and 50,27% unexplained mortality (unexplained+wirs 2,32%). Precent cycle (176): Total mortality 1,47% of this 41,62% is virus and 19,52% unexplained mortality (unexplained+virus 61,14%). | | | |
| 5.1.4 | Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis Requirement: 100% [81] | b. For each mortality event, ensure that post-mortem analyses are done on a statistically relevant number of fish and keep a record of the results. | All mortalities are diagnosed and post-mortem analysis are done on a statistically relevant number of fish (ref unspecified numbers above). Lab analyses routinely. | | | |
| Kei | Applicability: All | c. If on-site diagnosis is inconclusive and disease is suspected or results are inconclusive over a 1-2 week period, ensure that fish are sent to an off-site laboratory for diagnosis and keep a record of the results (5.1.4a). | Report from routine visit 30.11.2017 by Kristin Ottesen - HaVet; obduction of fish, samples, vaccine score, diagnosed HSMB | Compliant | | 100 % |
| ' | l a | | | | | |



| The contract of the contract o | ı | | | | | i | |
|--|----------------|---|---|---|-------------------|--|-------------|
| Maria Paris Pari | | | | Record are available and documented in Fish Talk, all mortalities are categorised. | | | |
| | | | | Submitted to ASC 09.02.2018 | | | |
| ### 1500 ## | Footnote | [81] If on-site diagnosis is inconclusive, this standard requ | | | fish. A statistic | ally relevant number of fi | sh from the |
| Company Comp | | | | | | | |
| Service of the content of the conten | 5.1.5 | on farm during the most recent production cycle | mortalities from the most recent complete production cycle. Divide this by the total number of fish produced in the production cycle (x100) to calculate percent maximum viral | | Compliant | | 0,72 % |
| whates felocome consists consists for the control of the control o | | Applicability: All | VI on an ongoing basis (i.e. at least once per year and for each production cycle). | Submitted to ASC 09-02-2018 | | | |
| ### 12 ## 1 | Footnote | | | nd unexplained mortality as it could be related to viral disease. | | | |
| And severed a control and control and severed and seve | | each of the previous two production cycles, for farms | full production cycle. If rate was ≤ 6%, then the requirement of 5.1.6 does not apply. If total | | | | |
| The state of the contract of t | 5.1.6 | 5.1.6 Requirement: ≤ 40% of total mortalities Applicability: All farms with > 6% total mortality in the most recent complete production cycle. | immediately prior to the current cycle. For first audit, calculation must cover one full | | N/A | total mortality 5,52% | 50,27 % |
| According to 1.1 and a service of the control of 1.1 and a service of control of 1.2 and a service of 1.2 and a ser | | most recent complete production cycle. | | Submitted to ASC 09.02.2018 | | | |
| Section of the content of the conten | | | Note: Farms have the option to integrate their farm-specific mortality reduction program in | to the farm's fish health management plan (5.1.1). | | | |
| Applicability in 1 In the control of the control o | 5.1.7 | that includes defined annual targets for reductions in | | proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - HaVet 23.01.2017. Site specific health plans for Bukkøya and Renga with goals, visit log, etc. Signed Rebekka B. | | | |
| Interesting the control in the contr | 3.17 | | develop a mortalities-reduction program that defines annual targets for reductions in total | proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - HaVet 23.01.2017. Site specific health plans for Bukkøya and Renga with goals, visit log, etc. Signed Rebekka B. | Compliant | | |
| Complete (Contract Colors and Calls for | | | and staff about annual targets and planned actions to meet targets. | | | | |
| Interaction to Calls for Chinaria 22- Accords holizated to Thursqueetic Trustments Interaction 22- Stay appears but from markets desired records of all common in the control markets and for complained with 5.11, if all consolidated distinations as significant, can be used to disconnicio performance against subsequent in the foliage of the control of the complained with 5.11, if all consolidated distinations are desired from the control of the complained with 5.11, if all consolidated distinations are desired from the control of the complained with the control of the co | Footnote | | Compliance Criteria (Required Client Actions): | Auditor Evaluation (Required CAB Actions): | | | |
| A Marians a distinct rock of all thermical and therapeutation on the incident of the format count of all thermical and therapeutation on the incident of the format count of all thermical and therapeutation on the incident of the format count of princing years are an incident on the incident of the format count of princing years are an incident on the incident of the format count of princing years are an incident on the incident of the inciden | Instruction to | clients and CABs for Criterion 5.2 - Records Related to T | | | | | |
| Against early for discussion for the documentation that ficklides, 114 and 114 | | | ical and therapeutant use. Those records maintained for compliance with 5.2.1, if all consolid | dated into a single place, can be used to demonstrate performance against subsequent | | | |
| Requirement: Yes Applicability: All Applicab | 5.2.1 | minimum, detailed information on all chemicals [84] and therapeutants used during the most recent production cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated and against which diseases, proof of proper dosing, and all disease and pathogens detected on the | name of the veterinarian prescribing treatment; product name and chemical name; reason for use (specific disease) - date(s) of treatment; - amount (g) of product used; - dosage; - t of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and | with name of product, active substance, withdrawal period, MRI., marketing company, authorizing country. Treatments done are annesthetics and delicing, all under responsible veterinarian's prescriptions. No Antibiotics used. Registered in Fishtlig fish group, treatment, date for usage, quantity and dosage, | Compliant | | |
| Toolnote Set Toolnote Set | | Requirement: Yes | all points in 5.2.1a for the previous two production cycles. For first audits, available records | E.g. Prescription 504047 for Renga, veterinarian Rebekka B. Ødegaard 13.09.2017, 1 kg Finquel, 25 daydegrees withdrawal period. E.g. Fishtalk record for group 17.01.001, 13.11.2017, Finquel, batch 17f100/1, quarantine | | | |
| Indicator Allowance for use of therapeutic treatments that are banned in any of the primary salmon producing and importing countries (Bis) in any of the primary salmon producing or importing countries (Bis) in any of the primary salmon producing or importing countries (Bis) in any of the primary salmon producing or importing countries (Bis) in any of the primary salmon producing or importing countries (Bis) in any of the primary salmon producing or importing countries (Bis) in any of the primary salmon producing or importing countries (Bis) in any of the primary salmon producing or importing countries (Bis) in any of the primary salmon producing or importing countries (Bis) in any of the primary salmon producing or importing countries. As defined here, cannot be used in any salmon producing or importing countries. As defined here, cannot be used in any salmon form certified under the SAD, regordance of the primary salmon producing or importing countries, as defined here, cannot be used in any salmon form certified under the SAD, regordance of the primary salmon producing or importing countries. As defined here, cannot be used in any salmon form certified under the SAD, regordance of the primary salmon producing or importing countries, as defined here, cannot be used in any salmon form certified under the SAD, regordance of the primary salmon producing or importing countries, as defined here, cannot be used in any salmon form certified under the SAD, regordance of the primary salmon producing or importing countries, as defined here, cannot be used in any salmon form certified under the SAD, regordance of the primary salmon producing or importing countries, as defined here, cannot be used in any salmon form certified under the SAD, regordance of the primary salmon producing or importing countries. Indicator: Percentage of medication events that are processed or the substance of the salmon countries are Norway, the U.S. canada, Chile, the United Sates, Japa and France. Indicator: Percentage of medication | | | | Submitted to ASC 09.02.2018 | | | |
| notation. Allowance for use of therapsetic treatments that include artibiotics and understand that are based (is [8]) in any of the primary salmon producing or improrting countries [86]. 5.2.2 Requirement: None Applicability: All [85] "Banned" means proactively prohibited by a government entity because of concerns around the substance. A substance banned in any of the primary salmon producing or improrting countries [86]. [86] "Banned" means proactively prohibited by a government entity because of concerns around the substance. A substance banned in any of the primary salmon producing or importing countries. Salm effects of countries are formed to the product of the pro | Footnote | | | he treatment of fish. | | | |
| solutions and the current and two prior production of veterinarian responsible for all medicator events that are prescribed by a veterinarian (or equivalent, see [78] for definition of veterinarian responsible for all medicator events. Records on the legal in conjunction with those for \$2.1 and should be large from the current and two prior production of veterinarian responsible for all medicator events. Records on the legal in conjunction with those for \$2.1 and should be large events. 5.2.4 Requirement: Yes Applicability: All Maintain records of voluntary and/or mandatory chemical residue testing conducted or commissioned by the farm from the prior and current production cycles. NFSA mandatory testing by NIFES on site and/or at harvest line. Results published in yearly Compiliant Ministry spinnon. NFSA mandatory testing by NIFES on site and/or at harvest line. Results published in yearly Compiliant of MIFES report. NFSA mandatory testing by NIFES on site and/or at harvest line. Results published in yearly Compiliant of MIFES report. NFSA mandatory testing by NIFES on site and/or at harvest line. Results published in yearly Compiliant Ministry spinnon. NFSA mandatory testing by NIFES on site and/or at harvest line. Results published in yearly Compiliant MIFES report. NFSA mandatory testing by NIFES on site and/or at harvest line. Results published in yearly Compiliant MIFES report. Compiliant Spinnon Applicability: All NFSA mandatory testing by NIFES on site and/or at harvest line. Results published in year the compiliant of the production of the formation of the product of the product. The \$5.40 recommends that Asc maintain as let of about the formation of the product. The \$5.40 recommends that Asc maintain a let of about the formation and the substance. A substance a substance of the product. The \$5.40 recommends that Asc maintains a let of about the substance. A substance of the product. The \$5.40 recommends that Asc maintains a let of about the substance. A substance of the product the formatio | | that include antibiotics or chemicals that are banned | banned for use in food fish for the primary salmon producing and importing countries | | | antibiotics and | |
| Footnote [85] "Banned" means proactively prohibited by a government entity because of concerns around the substance. A substance banned in any of the primary salmon-producing or importing countries, as defined here, cannot be used in any salmon farm certified under the SAD, regardance of the product. The SAD recommends that ASC maintain a list of a banned therapeutants. [86] For purposes of this standard, those countries are Norway, the U.C. Canada, Chile, the United States, Japan and France. [87] Prescription of the product of the produ | 5.2.2 | importing countries [86] Requirement: None | | | Compliant | primary salmon producing or importing countries. Jan Petter Kosmo | |
| Footnote [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [86] For purposes of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France. [87] Prescription S04047 for Renga, veterinarian Rebekka B. Ødegaard 13.09.2017, 1 kg Finquel, 25 daydegrees withdrawal period. [88] For purposes of this standard, those countries are Prescription S04047 for Renga, veterinarian Rebekka B. Ødegaard 13.09.2017, 1 kg Finquel, 25 daydegrees withdrawal period. [87] Prescription S04047 for Renga, veterinarian Rebekka B. Ødegaard 13.09.2017, 1 kg Finquel, 25 daydegrees withdrawal period. [88] For purposition of the Standard Reposition of the Standard Reposition of the Standard Reposit | | Applicability. All | - | - | | 13.03.2018: Closed | |
| Indicator: Percentage of medication events that are prescribed by a veterinarian 5.2.3 Requirement: 100% Applicability: All D. Maintain copies of all prescriptions and records of veterinarian responsible for all medication events. Records can be kept in conjunction with those for 5.2.1 and should be legistered in FishTalk records available. E.g. Prescriptions and FishTalk records available. E.g. Prescription SaddP for Renga, veterinarian Rebekka B. Ødegaard 13.09.2017, 1 kg Finquel, 25 daydegrees withdrawal period. Compliant 100 % of treatments are prescribed by a veterinarian, prescriptions stored in system. Treatments registered in FishTalk with withholding periods a defined in prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, CV and prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, CV and prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, CV and prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, CV and prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, CV and prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, CV and prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, CV and prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding period stated in prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding period stated in prescription. Procedure "Bruk og kontroll av l | Footnote | [85] "Banned" means proactively prohibited by a gove | | | mon farm certi | fied under the SAD, regard | dless of |
| Indicator: Percentage of medication events that are prescribed by a veterinarian and prescribed by a veterinarian (or equivalent, see [78] for definition of veterinarian). 5.2.3 Requirement: 100% Applicability: All Bequirement: 100% Bequirement: 100% Applicability: All Bequirement: 100% Bequirement: 100 | Footnote | | [86] For purposes of this standard, those countries are Norway, | T T | | | |
| Applicability: All b. Maintain copies of all prescriptions and records of veterinarian responsible for all medication events. Records can be kept in conjunction with those for \$2.1 and should be kept for the current and two prior production cycles. a. Incorporate withholding periods into the farm's fish health management plan (see \$1.1a\$). Indicator: Compliance with all withholding periods after treatments. Sequirement: Yes Requirement: Yes Applicability: All Do. Complie and maintain documentation on legally-required withholding periods for all treatments used on-farm. Withholding period is the time interval after the withdrawal of a drug from the treatment of the salmon before the salmon can be harvested for use as food. Show compliance with all withholding period stated in prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, cV and prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, cV and prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for storage, control, withholding, cV and prescription. Compliant Compliant | 5.23 | prescribed by a veterinarian | | E.g. Prescription 504047 for Renga, veterinarian Rebekka B. Ødegaard 13.09.2017, 1 kg | Compliant | | 100 % |
| a. Incorporate withholding periods into the farm's fish health management plan (see 5.1.1a). 1.1a). | 3.2.3 | | medication events. Records can be kept in conjunction with those for 5.2.1 and should be | 100 % of treatments are prescribed by a veterinarian, prescriptions stored in system. | Compilant | | 100 % |
| Applicability: All discontinuous control for the salmon before the salmon can be harvested for use as food. Applicability: All discontinuous control for the salmon before the salmon can be harvested for use as food. | | Indicator: Compliance with all withholding periods after | | registered in FishTalk with withholding periods as defined in prescription. Procedure "Bruk og kontroll av legemidler i Nova Sea" 11.11.2017 includes instruction for | | | |
| c. Show compliance with all withholding periods by providing treatment records (see | 5.2.4 | | treatments used on-farm. Withholding period is the time interval after the withdrawal of a | days withholding period stated in prescription | Compliant | | |
| 5.2.1a) and harvest dates for the most recent production cycle. Verified in CVs for fishgroups (CV report from FishTalk). | | | c. Show compliance with all withholding periods by providing treatment records (see 5.2.1a) and harvest dates for the most recent production cycle. | Verified in CVs for fishgroups (CV report from FishTalk). | | | |



| | Indicator: Maximum farm level cumulative parasiticide treatment index (PTI) score as calculated according to the formula in Appendix VII | a. Using farm data for therapeutants usage (S.2.2a) and the formula presented in Appendix VII, calculate the cumulative parasiticide treatment index (PTI) score for the most recent production cycle. Calculation should be made and updated on an ongoing basis throughout the cycle by farm manager, fish health manager, and/or veterinarian. | 2017G: 0.2 2015G: 29.1 VR97 and VR98 used in calculation | | Calculations verified. | |
|----------|--|--|--|-----------------|---|-----------|
| | Requirement: PTI score ≤ 13 Applicability: All | b. Provide the auditor with access to records showing how the farm calculated the PTI score. | Calculations verified. PTI > 13 on 2015G. 2017G: PTI 0.2 2015G: PTI 9.1 VR97 and VR98 used in calculation | Compliant | PTI >13 on 2015G. Jan Petter Kosmo 13.03.2018: Closed | 29,1 |
| | | c. Submit data on farm level cumulative PTI score to ASC as per Appendix VI for each production cycle. | Submitted to ASC 09.02.2018 | | | |
| | | a. Review PTI scores from 5.2.5a to determine if cumulative PTI ≥ 6 in the most recent production cycle. If yes, proceed to 5.2.6b; if no, Indicator 5.2.6 does not apply. | 2017G: 0,2 2015G: 29,1 VR97 and VR98 used in calculation | | | |
| | Indicator: For farms with a cumulative PTI ≥ 6 in the most recent production cycle, demonstration that parasiticide load [87] is at least 15% less that of the average of the two previous production cycles | b. Using results from 5.2.5 and the weight of fish treated (kg), calculate parasticide load in the most recent production cycle [90]. | Calculations verified. Present cycle (2017c): parasitic load 915 (99% less) Previous cycle (2015c): parasitic load 110425 VR97 and VR98 used in calculation | | | |
| | Requirement: Yes Applicability: All farms with a cumulative PTI \geq 6 in the most recent production cycle | c. Calculate parasiticide load in the two previous production cycles as above (5.2.6b) and compute the average. Calculate the percent difference in parasiticide load between current cycle and average of two previous cycles. For first audit, calculation must cover one full production cycle immediately prior to the current cycle. | Calculations verified. Present cycle (20176): parasitic load 915 (99% less) Previous cycle (20156): parasitic load 110425 VR97 and VR98 used in calculation | Compliant | | 99 % |
| | | d. As applicable, submit data to ASC on parasiticide load for the most recent production cycle and the two previous production cycles (Appendix VI). | Submitted to ASC 09.02.2018 | | | |
| Footnote | [87] Parasiticide load = Sum (kg of fish treated x PTI). Re | duction in load required regardless of whether production increases on the site. Farms that of sites | consolidate production across multiple sites within an ABM can calculate reduction based on $\mathfrak t$. | he combined p | arasiticide load of the cor | solidated |
| | Indicator: Allowance for prophylactic use of | Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles. | No ABs used prophylactic the recent cycles | | | |
| 527 | antimicrobial treatments [88] Requirement: None | b. Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3) | No ABs used prophylactic the recent cycles | N/A | No ABs used prophylactic the recent cycles | |
| | Applicability: All | c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.9). | No ABs used prophylactic the recent cycles | | | |
| Footnote | | [88] The designated veterinarian must certify that a pathog | en or disease is present before prescribing medication. | | | |
| | | Note 1: Farms have the option to certify only a portion of the fish or farm site when WHO-li option, farms must request an exemption from the CAB in advance of the audit and provide treated fish. | sufficient records giving details on which pens were treated and traceability of those | | | |
| | Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the World Health Organization (WHO [88]) | Note 2: It is recommended that the farm veterinarian review the WHO list [see 89] in detail and is not inclusive of all drugs. | and be aware that the list is meant to show examples of members of each class of drugs, | | | |
| | | Maintain a current version of the WHO list of antimicrobials critically and highly important for human health [89]. | WHO Critically important antimicrobials for human medicine 5th revision, October 2016. List of treatments used is presented, no AB's used at site. | | | |
| 5.2.8 | Requirement: None [90] | b. If the farm has <u>not</u> used any antibiotics listed as critically important (5.2.8a) in the current production cycle, inform the CAB and proceed to schedule the audit. | WHO Critically important antimicrobials for human medicine 5th revision, October 2016. List of treatments used is presented, no AB's used at site. | | | |
| | Applicability: All | c. If the farm <u>has</u> used antibiotics listed as critically important (5.2.8a) to treat any fish during the current production cycle, inform the CAB prior to scheduling audit. | WHO Critically important antimicrobials for human medicine 5th revision, October 2016. List of treatments used is presented, no AB's used at site. | Compliant | | |
| | | d. if yes to 5.2.8c, request an exemption from the CAB to certify only a portion of the farm. Prior to the audit, provide the CAB with records sufficient to establish details of treatment, which pens were treated, and how the farm will ensure full traceability and separation of treated fish through and post-harvest. | WHO Critically important antimicrobials for human medicine 5th revision, October 2016. List of treatments used is presented, no AB's used at site. | | | |
| Footnote | [89] The | | 2009 and is available at: http://www.who.int/foodsafety/publications/antimicrobials-fifth/e | n/. | • | |
| Footnote | | [90] If the antibiotic treatment is applied to only a portion of the pens on a farm site Note: for the purposes of Indicator 5.2.9. "treatment" means a single course of medication in | even to address a specific disease issue and that may last a number of days and be applied in | | | |
| 5.2.9 | Indicator: Number of treatments [91] of antibiotics over the most recent production cycle Requirement: ≤ 3 | one or more pens (or cages). 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 | No antibiotics used | | | |
| | Applicability: All | statement. b. Calculate the total number of treatments of antibiotics over the most recent production cycle and supply a verifiable statement of this calculation. | No antibiotics used | Compliant | | 0 |
| Footnote | | [91] A treatment is a single course medication given to address | I a specific disease issue and that may last a number of days. | | L | |
| | | Note: Indicator 5.2.10 requires that farms must demonstrate a reduction in load required, n across multiple sites within an ABM can calculate reduction based on the combined antibion | egardless of whether production increases on the site. Farms that consolidate production in land of the consolidate disters | | | |
| | | a. Use results from 5.2.9b to show whether more than one antibiotic treatment was used in the most recent production cycle. If not, then the requirement of 5.2.10 does not apply. If yes, then proceed to 5.2.10b. | | | | |
| 5.2.10 | Indicator: If more than one antibiotic treatment is used in the most recent production cycle, demonstration that the antibiotic load [92] is at least 15% less that of the average of the two previous production cycles Requirement: Yes [93] | b. Calculate antibiotic load (antibiotic load = the sum of the total amount of active ingredient of antibiotic used in kgl for most recent production cycle and for the two previous production cycles. For first audit, calculation must cover one full production cycle. | No antibiotics used | | | |
| | Applicability: All | immediately prior to the current cycle. c. Provide the auditor with calculations showing that the antibiotic load of the most recent production cycle is at least 15% less than that of the average of the two previous production cycles. | No antibiotics used | N/A | No antibiotics used | |
| | | d. Submit data on antibiotic load to ASC as per Appendix VI (if applicable) for each production cycle. | Submitted to ASC 09.02.2018 | | | |
| Footnote | | [92] Antibiotic load = the sum of the total amoun | I tof active ingredient of antibiotics used (kg). | | <u> </u> | |
| Footnote | [93] Reduction in load required, re | egardless of whether production increases on the site. Farms that consolidate production acr | ross multiple sites within an ABM can calculate reduction based on the combined antibiotic lo | ad of the conso | lidated sites. | |
| | Indicator: Presence of documents demonstrating that the farm has provided buyers [94] of its salmon a list of all therapeutants used in production | 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). | Procedure "Fakturering i Visma" 10.10.2017 states that CV shall follow sales. | | | |
| | all therapeutants used in production Requirement: Yes Applicability: All | b. Maintain records showing the farm has informed all buyers of its salmon about all therapeutants used in production. | Seen example of FishTalk CV for cage 7 with treatment at FW site with vaccine Pentium Forte Pluss, and SW treatments e.g. Finquel 27.01.2018 and Finquel 20.10.2017. | Compliant | | |
| Footnote | | [94] Buyer: The company or entity to which the farm or t | | | | l |
| | | Criterion 5.3 Resistance of parasites, viruses and b Compliance Criteria (Required Client Actions): | acterio to medicinal treatment: Auditor Evaluation (Required CAB Actions): | | | |



| 5.3.1 | Indicator. Bio-assay analysis to determine resistance when two applications of a treatment have not produced the expected effect Requirement: Yes Applicability: All | Instruction to Clients for Indicator 5.3.1 - Identifying the 'Expected Effect' of Medicinal Tre Indicator 5.3.1 requires that farms identify treatments that have not produced the expected health condition and type of medicinal treatment. Therefore farms and auditors will need to the impact of treatment. Example: sea lice treatment with Emamektin benzoate The SAD SC recommends that a typical baseline for effectiveness of Emamektin benzoate is whether treatment has produced the expected effect, farm and auditor must review pre- an treatment did not produce the expected effect and a bio-assay should be performed to dete Note: if field-based bio-assays for determining resistance are ineffective or unavailable, the formation. The auditor shall record in the audit report why field-based bio-assays were deer formation. a. In addition to recording all therapeutic treatments (S.2.1a), keep a record of all cases where the farm uses two successive medicinal treatments. b. Whenever the farm uses two successive treatments, keep records showing how the farm evaluates the observed effect of treatment against the expected effect of treatment. c. For any result of S.3.1b that did not produce the expected effect, ensure that a bio-assay analysis of resistance is conducted. d. Keep a record of all results arising from S.3.1c. | Leffect. The SAD Steering Committee recognizes that the "expected effect" will vary with or review the pre- and post-treatment condition of fish in order to understand and evaluate a minimum of 90 percent reduction in abundance of lice on the farmed fish. To determine and post-treatment lice counts. If the calculated percent reduction in lice is < 90% then the trimine whether sea lice have developed resistance. farm shall have samples analyzed by an independent laboratory to determine resistance med ineffective and shall include results from the laboratory analyses of resistance. No consecutive treatments done in present cycle without desired effect. | N/A | No consecutive treatments done in present cycle without desired effect. |
|-------------------|---|--|--|-------------|--|
| 5.3.2 | Indicator: When bio-assay tests determine resistance is forming, use of an alternative, permitted treatment, or an immediate harvest of all fish on the site Requirement: Yes Applicability: All | 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. When bio-assay tests show evidence that resistance has formed, keep records showing that the farm took one of two actions: -used an alternative treatment (if permitted in the area of operation); or -immediately harvested all fish on site. Criterion 5.4 Biosecurity manage. | No consecutive treatments done in present cycle without desired effect. No consecutive treatments done in present cycle without desired effect. genent [95] | N/A | No consecutive treatments done in present cycle without desired effect. |
| Footnote | | Compliance Criteria (Required Client Actions): [95] See Appendix VI for transparency | Auditor Evaluation (Required CAB Actions): | | |
| , | | a. Keep records of the start and end dates of periods when the site is fully fallow after | 2015G last harvest date: 22.06.2016 | | |
| 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] | 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. | Stocking 2017G from 10.07.2017 to 21.10.2017 2015G last harvest date: 22.06.2016 Stocking 2017G from 10.07.2017 to 21.10.2017 | Compliant | |
| | | - | Stocking 2017G from 10.07.2017 to 21.10.2017 | | |
| Footnote | | [5] Gaps of up to six months between inputs of smolts derived from the same stripping are acc | | | |
| 5.4.2 | Indicator: Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm experiences unexplained increased mortality, 1981 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 | a. For mortality events logged in 5.1.4a, show evidence that the farm promptly evaluated each to determine whether it was a statistically significant increase over background mortality rate on a monthy basis [98]. The accepted level of significance (for example, p < 0.05) should be agreed between farm and CAB. b. For mortality events logged in 5.1.4a, record whether the farm did or did not suspect (yes or no) an unidentified transmissible agent. c. Proceed to 5.4.2d if, during the most recent production cycle, either: - results from 5.4.2a showed a statistically significant increase in unexplained mortalities; or - the answer to 5.4.2b was 'yes'. Otherwise, Indicator 5.4.2 is not applicable. | Continuos evaluation. No events of UIA category mortality categorized nor suspected for the most recent production cycle. No UIA detected nor suspected at farm. Ref to indicator 5.1.4 a for details of monitoring. Continuos evaluation. No events of UIA category mortality categorized nor suspected for the most recent production cycle. No UIA detected nor suspected at farm. Ref to indicator 5.1.4 a for details of monitoring. No UIA detected nor suspected at farm. | Compliant | |
| | Requirement: Yes Applicability: All | d. If required, ensure that the farm takes and records the following steps: 1) Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available. e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality, if applicable, then data are to be sent to ASC | No UIA detected nor suspected at farm. No UIA detected nor suspected at farm. | _ | |
| | | Report the issue to the ABM and to the appropriate regulatory authority; Il increase monitoring and surveillance [99] on the farm and within the ABM; and Promptly (within one month) make findings publicly available. | · | _ | |
| Footnote | | 1) Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available. e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unseplained increases in mortality. If applicable, then data are to be sent to ASC | No UIA detected nor suspected at farm. | - | |
| Footnote | | 1) Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available. e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle). [98] Increased mortality: A statistically significant inc. [99] Primary aim of monitoring and surveillance is to investigate. | No UIA detected nor suspected at farm. Trease over background rate on a monthly basis. The whether a new or adapted disease is present in the area. | | |
| | | 11 Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available. e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle). [98] Increased mortality: A statistically significant inc. [99] Primary aim of monitoring and surveillance is to investigate. [100] Within or | No UIA detected nor suspected at farm. rease over background rate on a monthly basis. whether a new or adapted disease is present in the area. ne month. | | |
| Footnote | | 13 Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available. e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle). [98] Increased mortality: A statistically significant inc [99] Primary aim of monitoring and surveillance is to investigate [100] Within or Instruction to Clients for Indicator S.4.3 - Compliance with the OIE Aquatic Animal Health Indicator S.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal | No UIA detected nor suspected at farm. **rease over background rate on a monthly basis.** **e whether a new or adapted disease is present in the area.** **e month.** **Code** **li Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm rard, this means that the farm must have written procedures stating how the farm will initiate = not previously found in the area or had been fully eradicated (area declared free of the OIE for the specific pathogen; and farm practices are consistent with the intentions of the OIE Aquatic Animal Health Code by management plan.** **incorporate mandatory depopulation of sites close to the infected site and affect some, | | |
| Footnote | Applicability: All Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] | 13 Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available. e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle). [98] Increased mortality: A statistically significant inc [99] Primary aim of monitoring and surveillance is to investigate [100] Within or Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standan aggressive response to detection of an exocit Coli-nortibable disease on the farm ['exotic' pathogen]). An aggressive response will involve, at a minimum, the following actions: depopulation of the infected site; implementation of quarantine zones (see note below)in accordance with guidelines from -additional actions as required under Indicator 5.4.4. To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how developing relevant policies and procedures and integrating them into the farm's fish health Note: The Steering Committee recognizes that establishment of quarantine zones will likely though not necessarily all, of the ABM. a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff | No UIA detected nor suspected at farm. **Trease over background rate on a monthly basis.** e whether a new or adapted disease is present in the area. ne month. **Code** If ealth Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm rift, this means that the farm must have written procedures stating how the farm will initiate a not previously found in the area or had been fully eradicated (area declared free of the OIE for the specific pathogen; and **farm practices are consistent with the intentions of the OIE Aquatic Animal Health Code by a management plan. **incorporate mandatory depopulation of sites close to the infected site and affect some, **Link to OIE "Aquatic Animal Health Code 2017" (relevant diseases in list are Pancreas | | |
| Footnote | Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] | 13 Report the issue to the ABM and to the appropriate regulatory authority; 21 Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available. e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle). [98] Increased mortality: A statistically significant inc [99] Primary aim of monitoring and surveillance is to investigate [100] Within or Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standa an aggressive response to detection of an exotic OIE-notiable disease on the farm ['exotic' pathogen]). An aggressive response will involve, at a minimum, the following actions: - depopulation of the infected site; - implementation of quarantine zones (see note below)in accordance with guidelines from - additional actions a required under Indicator 5.4.3. clients have the to option to describe how developing relevant policies and procedures and integrating them into the farm's fish health Note: The Steering Committee recognizes that establishment of quarantine zones will likely though not necessarily all, of the ABM. | No UIA detected nor suspected at farm. **rease over background rate on a monthly basis.** **e whether a new or adapted disease is present in the area.** **e month.** **Code** **li Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm rard, this means that the farm must have written procedures stating how the farm will initiate = not previously found in the area or had been fully eradicated (area declared free of the OIE for the specific pathogen; and farm practices are consistent with the intentions of the OIE Aquatic Animal Health Code by management plan.** **incorporate mandatory depopulation of sites close to the infected site and affect some, | Compliant | |
| Footnote | Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] Requirement: Yes Applicability: All | 13 Report the issue to the ABM and to the appropriate regulatory authority; 21 Increase monitoring and surveillance [99] on the farm and within the ABM; and 3] Promptly (within one month) make findings publicly available. e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle). [98] Increased mortality: A statistically significant inc. [99] Primary aim of monitoring and surveillance is to investigate [100] Within or Instruction to Clients for Indicator S.4.3 - Compliance with the OIE Aquatic Animal Health indicator S.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standa an aggressive response to detection of an exocit OI: Institution than the ABM of the Institution of the Institution of a magnetic or Institution of the Institution of Institu | No UIA detected nor suspected at farm. Trease over background rate on a monthly basis. whether a new or adapted disease is present in the area. ne month. Code all Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm rurd, this means that the farm must have written procedures stating how the farm will initiate = not previously found in the area or had been fully eradicated (area declared free of the OIE for the specific pathogen; and farm practices are consistent with the intentions of the OIE Aquatic Animal Health Code by a management plan. incorporate mandatory depopulation of sites close to the infected site and affect some, Link to OIE "Aquatic Animal Health Code 2017" (relevant diseases in list are Pancreas Disease and Infectious salmon anemia virus). VHP for Nova Sea includes diseases/parasites, treatments, health goals, cleaner fish, proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - Halvet 23.01.2017. Link to OIE "Aquatic Animal Health Code 2017" (relevant diseases in list are Pancreas Disease and Infectious salmon anemia virus). Verified during audit. | Compliant . | |
| Footnote Footnote | Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] Requirement: Yes Applicability: All | 13 Report the issue to the ABM and to the appropriate regulatory authority; 21 Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available. e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle). [98] Increased mortality: A statistically significant inc [99] Primary aim of monitoring and surveillance is to investigate [100] Within or [100] Withi | No UIA detected nor suspected at farm. **rease over background rate on a monthly basis.** **ewhether a new or adapted disease is present in the area.** **ne month.** **Code** **Bit Health Code (see http://www.oie.int/index.php?rid=171). Compliance is defined as farm rid, this means that the farm must have written procedures stating how the farm will initiate = not previously found in the area or had been fully eradicated (area declared free of the OIE for the specific pathogen; and farm practices are consistent with the intentions of the OIE Aquatic Animal Health Code by management plan. **incorporate mandatory depopulation of sites close to the infected site and affect some, **United Toles "Aquatic Animal Health Code 2012" (relevant diseases in list are Pancreas **Disease and Infectious salmon anemia virus).** **VHP for Nova Sea includes diseases/parasites, treatments, health goals, deaner fish, proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - HaVet **23.01.2017.** **Unit No IDI "Aquatic Animal Health Code 2012" (relevant diseases in list are Pancreas **Disease and Infectious salmon anemia virus).** **Verified during audit.** **Werified d | Compliant . | |



| | Indicator: If an OIE-notifiable disease [103] is confirmed on the farm, evidence that: 1. the farm has, at a minimum, immediately culled the | b. Inform the CAB if an OIE-notifiable disease has been confirmed on the farm during the current production cycle or the two previous production cycles. If yes, proceed to 5.4.4c. If no, then 5.4.4c an 5.4.4d do not apply. | Diagnosed ISA 13.06.2016. NFSA and other farmers informed. Culling of all fish finished 20.04.2016 (NFSA limit 24.07.2016). | | | |
|----------------------|---|---|--|-----------------|--|----------|
| 5.4.4 | pen(s) in which the disease was detected 2. the farm immediately notified the other farms in the ABM [104] 3. the farm and the ABM enhanced monitoring and conducted rigorous testing for the disease 4. the farm promptly [105] made findings publicly available | c. If an OIE-notifiable disease was confirmed on the farm (see 5.4.4b), then retain documentary evidence to show that the farm: 1) immediately quilled the pen(s) in which the disease was detected; 2) immediately notified the other farms in the ABM [10.4] 3) enhanced monitoring and conducted rigorous testing for the disease; and 4) promptly (within one month) made findings publicly available. | Diagnosed ISA 13.06.2016. NFSA and other farmers informed. Culling of all fish finished 20.04.2016 (NFSA limit 24.07.2016). | Compliant | | |
| | Requirement: Yes Applicability: All | d. As applicable, submit data to ASC as per Appendix VII 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). | Submitted to ASC 09:02:2018 | | | |
| | | - | NFSA informed and result made publicly available at www.barentswatch.no. | | | |
| Footnote | [103] At the time of publication of the final draft star | ddards, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic hematopoieti (Gyrodactylu: | necrosis, Infectious hematopoietic necrosis (IHN), Infectious salmon anemia (ISA), Viral haen s salaris). | norrhagic septi | aemia (VHS) and Gyroda | ctylosis |
| Footnote Footnote | | [104] This is in addition to any notifications to regulatory bodies r [105] Within or | | | | |
| RINCIPLE 6: I | DEVELOP AND OPERATE FARMS IN A SOCIALLY RESPONSIB | | | | | |
| | | | ce Criteria | | | |
| Footnote | [106] Bargain | collectively: A voluntary negotiation between employers and organizations of workers in ord | ler to establish the terms and conditions of employment by means of collective (written) agre | ements. | | |
| | | a. Workers have the freedom to join any trade union, free of any form of interference from employers or competing organizations set up or backed by the employer. Farms shall prepare documentation to demonstrate to the auditor that domestic regulation fully meets these criteria. | 8 of 10 workers are organised. The information on Freedom of association is presented in Self declaration of Social Practice. Workers aware of their right. | | In interview TU representative states, that he has insufficient information about activities in HR (hiring, | |
| 6.1.1 | Indicator: Evidence that workers have access to trade unions (if they exist) and union representative(s) chosen by themselves without managerial interference | b. Union representatives (or worker representatives) are chosen by workers without managerial interference. ILO specifically prohibits "acts which are designated to promote the establishment of worker organizations or to support worker organizations under the control or employers or employers' organizations." | TU worker representative: Jon Arne Nygaard for the area. The worker representative works with organised employees. Safety representative for area is elected Tor Erik Sarassen. | Minor | dismissing, discrimination handling, conflict/grievance solving etc.) to do good service for workers. The time for meeting and communicating the | |
| b.1.1 | Requirement: Yes Applicability: All | c. Trade union representatives (or worker representatives) have access to their members in the workplace at reasonable times on the premises. | The worker representative communicate with employees in meetings and by phone or e-mail. NC evidence: In interview TU representative states, that he has insufficient information about activities in HR (Ihring, discrimination handling, conflict/grievance solving etc.) to do good service for workers. The time for meeting and communicating the workers is not properly allocated, as no dedicated procedure for replacing TU representative at his direct job is defined. | Minor | communicating the workers is not properly allocated, as no dedicated procedure for replacing TU representative at his direct job is defined. Darius Pamakstys 11.03.2018: Root cause, corrective and | |
| | | d. Be advised that workers and union representatives (if they exist) will be interviewed to confirm the above. | Interview confirms information above | | preventive actions Accepted | |
| | Indicator: Evidence that workers are free to form | a. Employment contract explicitly states the worker's right of freedom of association. | The Job contracts has link to Self declaration of Social Practice of the Company. | | | |
| 6.1.2 | organizations, including unions, to advocate for and protect their rights Requirement: Yes | b. Employer communicates that workers are free to form organizations to advocate for and protect work rights (e.g. farm policies on Freedom of Association; see 6.12.1). | The right is communicated via training of quality system which has Self declaration of Social practice. Site managers are responsible to communicate the Self declaration of Social practice to all employees. | Compliant | | |
| | Applicability: All | c. Be advised that workers will be interviewed to confirm the above. | Interview confirms information above. | | | |
| | Indicator: Evidence that workers are free and able to bargain collectively for their rights | Local trade union, or where none exists a reputable civil-society organization, confirms no outstanding cases against the farm site management for violations of employees' freedom of association and collective bargaining rights. | No outstanding cases what are in conflict with standard requirements. | | | |
| 6.1.3 | Requirement: Yes | b. Employer has explicitly communicated a commitment to ensure the collective bargaining rights of all workers. | Collective bargaining agreement in place as Tariff agreement. | Compliant | | |
| | Applicability: All | c. There is documentary evidence that workers are free and able to bargain collectively (e.g. collective bargaining agreements, meeting minutes, or complaint resolutions). | Collective bargaining agreement in place as Tariff agreement. | | | |
| | | Criterion 6.2 Child lab Complian | or CCC Criteria | | | |
| 6.2.1 | Indicator: Number of incidences of child [107] labor [108] Requirement: None | a. In most countries, the law states that minimum age for employment is 15 years. There are two possible exceptions: - in developing countries where the legal minimum age may be set to 14 years (see footnote 108); or - in countries where the legal minimum age is set higher than 15 years, in which case the legal minimum age of the country is followed. If the farm operates in a country where the legal minimum ages is not 15, then the employers shall maintain documentation attesting to this fact. | Standard requirements apply. | Compliant | | |
| | Applicability: All except as noted in [107] | b. Minimum age of permanent workers is 15 or older (except in countries as noted above). | The youngest employee on the date of certification - over 18 years old. | | | |
| | | c. Employer maintains age records for employees that are sufficient to demonstrate compliance. | Records are kept in HR system. | | | |
| ootnote | [107] Child: Any person under 15 years of age. A | | r mandatory schooling. Minimum age may be 14 if the country allows it under the developing | country except | ions in ILO convention 13 | 38. |
| ootnote | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | [108] Child Labor: Any work by a child younger tha | | ., | | |
| | | | Most of the relevant training young workers have to receive as all other employees. The job conditions and limitations are defined in job contract attachment for young workers. | | | |
| | | b. All young workers (from age 15 to less than 18) are identified and their ages are confirmed with copies of IDs. | The young workers are identified by IDs. | | | |
| | Indicator: Percentage of young workers [109] that are protected [110] | c. Daily records of working hours (i.e. timesheets) are available for all young workers. | Timesheets are available | C " | | |
| 6.2.2 | Requirement: 100% | d. For young workers, the combined daily transportation time and school time and work time does not exceed 10 hours. | Work is organised in normal 5 days weeks or on 7/7 shifts. | Compliant | | |
| | Applicability: All | e. Young workers are not exposed to hazards [111] and do not perform hazardous work [112]. Work on floating cages in poor weather conditions shall be considered hazardous. | The general hazards that should be avoided are discussed with young workers prior to each work. | | | |
| | | f. Be advised that the site will be inspected and young workers will be interviewed to | No young workers were employed on the date of the audit. | | | |
| ootnote | | confirm compliance. [109] Young Worker: Any worker between the age of a | | | | |
| Footnote | [110] Protected: Workers between 15 and 18 year | ars of age will not be exposed to hazardous health and safety conditions; working hours shall | not interfere with their education and the combined daily transportation time and school tim | e, and work tin | e shall not exceed 10 hou | urs. |
| Footnote | [11 | .1] Hazard: The inherent potential to cause injury or damage to a person's health (e.g., unequ | ipped to handle heavy machinery safely, and unprotected exposure to harmful chemicals). | | | |
| ootnote | [112] Hazardous work: Work that, by its nat | ture or the circumstances in which it is carried out, is likely to harm the health, safety or more | als of workers (e.g., heavy lifting disproportionate to a person's body size, operating heavy ma | achinery, expos | ure to toxic chemicals). | |
| | | Criterion 6.3 Forced, bonded or co Complian | mpulsory labor ce Criteria | | | |
| | | a. Contracts are clearly stated and understood by employees. Contracts do not lead to workers being indebted (i.e. no 'pay to work' schemes through labor contractors or training credit programs). | Contracts do not lead to workers being indebted. Separate contracts for crediting of higher | | | |
| | | b. Employees are free to leave workplace and manage their own time. | Confirmed by interview. | | | 1 |



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|----------|---|---|---|--------------------|---|-------------|
| 621 | bonded [114] or compulsory labor Requirement: None | c. Employer does not withhold employee's original identity documents. | No cases identified | Compliant | | i |
| | Applicability: All | d. Employer does not withhold any part of workers' salaries, benefits, property or documents in order to oblige them to continue working for employer. | No cases identified | | | i |
| | | e. Employees are not to be obligated to stay in job to repay debt. | No cases identified. | | | i |
| | | f. Maintain payroll records and be advised that workers will be interviewed to confirm the above. | Payroll records are available. The interviews has confirmed above information. | | | ī |
| Footnote | [113] Forced (Compulsory) labor: All work or service that | is extracted from any person under the menace of any penalty for which a person has not of physical punishment, or the loss of rights and privileges or restric | fered himself/herself voluntarily or for which such work or service is demanded as a repayme ttion of movement (e.g., withholding of identity documents). | nt of debt. "Per | nalty" can imply monetary | sanctions |
| Footnote | | [114] Bonded labor: When a person is forced by the employer or cre Criterion 6.4 Discriminatio. | | | | |
| | [115] Discrimination: Any distinction, evolution or prefer | Complian | in [2:49] ce Criteria every distinction, exclusion or preference constitutes discrimination. For instance, a merit- or | norformanco h | ared pay increase or benu | r ir not by |
| Footnote | (223) Discrimination. Any distinction, excession of prefer | itself discriminatory. Positive discrimination in favour of people from o | | periormance of | sea pay merease or bond. | 7 IS HOLDY |
| | Indicator: Evidence of comprehensive [116] and | a. Employer has written anti-discrimination policy in place, stating that the company does not engage in or support discrimination in hiring, remuneration, access to training, promotion, termination or retirement based on race, caste, national origin, religion, disability, gender, sexual orientation, union membership, political affiliation, age or any other condition that may give rise to discrimination. | The anti-discrimination policy is presented in Self declaration of Social practice. | | Interview with | ĺ |
| 6.4.1 | proactive anti-discrimination policies, procedures and practices Requirement: Yes | b. Employer has clear and transparent company procedures that outline how to raise, file, and respond to discrimination complaints. | Whistle blowing procedure in place (ID13447 revision 2018). | Compliant | management. Training documents and missing evidences of non- discrimination training. | Ì |
| | Applicability: All | c. Employer respects the principle of equal pay for equal work and equal access to job opportunities, promotions and raises. | The tariff agreement is the base of equal pay, it is applied to all employees. | | Darius Pamakstys 11.03.2018: Closed | ı |
| | | d. All managers and supervisors receive training on diversity and non-discrimination. All personnel receive non-discrimination training. Internal or external training acceptable if proven effective. | Site Manager and employees were trained on diversity in 2018. NC evidence: Interview with management. Training documents and missing evidences of non-discrimination training. | | | Ì |
| Footnote | [116] Employers shall have written anti-discrimination | on policies stating that the company does not engage in or support discrimination in hiring, re orientation, union membership, political affiliation, age or a | muneration, access to training, promotion, termination or retirement based on race, caste, n my other condition that may give rise to discrimination. | ational origin, re | eligion, disability, gender, | sexual |
| | | a. Employer maintains a record of all discrimination complaints. These records do not show | | | | |
| | Indicator: Number of incidences of discrimination | evidence for discrimination. | No cases identified. | | | i i |
| | Requirement: None Applicability: All | b. Be advised that worker testimonies will be used to confirm that the company does not interfere with the rights of personnel to observe tenets or practices, or to meet needs related to race, caste, national origin, religion, disability, gender, sexual orientation, union membership, political affiliation or any other condition that may give rise to discrimination. | Interview has confirmed absence of discrimination cases. | Compliant | | ľ |
| | | Criterion 6.5 Work environment he Complian | ealth and safety nce Criteria | | | |
| I | Indicator: Percentage of workers trained in health and | a. Employer has documented practices, procedures (including emergency response procedures) and policies to protect employees from workplace hazards and to minimize risk of accident or injury. The information shall be available to employees. | The H&S procedures are in place. The site level Safety Job Analysis is applied prior to hazardous works to assess and discuss related risks. NC evidence: Missing documents. | | Missing documents. Interview with management and | 1 |
| 6.5.1 | safety practices, procedures [117] and policies on a yearly basis Requirement: 100% Applicability: All | b. Employees know and understand emergency response procedures. | NC evidence: Interview with management and employees revealed limited knowledge of emergency procedures. | Minor | employees revealed limited knowledge of emergency procedures. Darius Pamakstys | Ì |
| | | c. Employer conducts health and safety training for all employees on a regular basis (once a year and immediately for all new employees), including training on potential hazards and risk minimization, Occupational Safety and Health (OSH) and effective use of PPE. | Regular external and internal trainings are conducted. | | 11.03.2018: Root cause, corrective and preventive actions Accepted | 1 |
| Footnote | | [117] Health and safety training shall include em | lergency response procedures and practices. | | | |
| | | a. Employer maintains a list of all health and safety hazards (e.g. chemicals). | The list of H&S hazards is maintained together with list of H&S risks. | | | i |
| | Indicator: Evidence that workers use Personal Protective Equipment (PPE) effectively | b. Employer provides workers with PPE that is appropriate to known health and safety hazards. | All needed PPE is provided. | | | İ |
| | Requirement: Yes Applicability: All | c. Employees receive annual training in the proper use of PPE (see 6.5.1c). For workers who participated in the initial training(s) previously an annual refreshment training may suffice, unless new PPE has been put to use. | The procedure and forms for PPE use are in place. H&S Training is conducted annually. | Compliant | | ĺ |
| | | d. Be advised that workers will be interviewed to confirm the above. | The interviews has confirmed above information. | | | i |
| | Indicator: Presence of a health and safety risk assessment and evidence of preventive actions taken | a. Employer makes regular assessments of hazards and risks in the workplace. Risk assessments are reviewed and updated at least annually (see also 6.5.1a). | The risk assessment is conducted in register of H&S hazards. The risks are maintained in company level and site level. The annual risk assessment update is organised. Last round was done 2017-12, 2018-01. As well risks are discussed during SIA (safe job analysis) discussions prior to any hazardous activities event like splitting, de-licing, harvesting etc. | | | Ī |
| | Requirement: Yes Applicability: All | b. Employees are trained in how to identify and prevent known hazards and risks (see also 6.5.1c). | Annual general training is applied for all employees by site managers. The Safety Job Analysis is applied prior to each hazardous work. | Compliant | | 1 |
| | | | 1 | | | |
| | | c. Health and safety procedures are adapted based on results from risk assessments (above) and changes are implemented to help prevent accidents. | The procedures are adapted in relation to risk assessment and H&S accidents investigation results. | | | |
| | | | | | | |
| | Indicator: Evidence that all health- and safety-related | and changes are implemented to help prevent accidents. | results. | | The records in | |
| 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 | and changes are implemented to help prevent accidents. a. Employer records all health- and safety-related accidents. b. Employer maintains complete documentation for all occupational health and safety | results. H&S accidents are reported in system database. | Compliant | The records in management system are missing for root cause analysis results. Darius Pamakstys 08.04.2018: Closed | |
| 6.5.4 | accidents and violations are recorded and corrective actions are taken when necessary Requirement: Yes | and changes are implemented to help prevent accidents. a. Employer records all health- and safety-related accidents. b. Employer maintains complete documentation for all occupational health and safety violations and investigations. c. Employer implements corrective action plans in response to any accidents that occur. Plans are documented and they include an analysis of root cause, actions to address root | results. H&S accidents are reported in system database. H&S violations and investigations are reported in system database. Corrective action plan for accidents are developed and implemented, Root cause analysis to be applied. No evidence: The records in management system are missing for root cause analysis | Compliant | management system are missing for root cause analysis results. Darius Pamakstys | |
| 6.5.4 | accidents and violations are recorded and corrective actions are taken when necessary Requirement: Yes | and changes are implemented to help prevent accidents. a. Employer records all health- and safety-related accidents. b. Employer maintains complete documentation for all occupational health and safety violations and investigations. c. Employer implements corrective action plans in response to any accidents that occur. Plans are documented and they include an analysis of root cause, actions to address root cause, actions to remediate, and actions to prevent future accidents of similar nature. d. Employees working in departments where accidents have occurred can explain what analysis has been done and what steps were taken or improvements made. | results. H&S accidents are reported in system database. H&S violations and investigations are reported in system database. Corrective action plan for accidents are developed and implemented, Root cause analysis to be applied. No evidence: The records in management system are missing for root cause analysis results. No accidents took place at this site. Information from other sites provided via e-mail and | Compliant | management system are missing for root cause analysis results. Darius Pamakstys | |
| 6.5.4 | accidents and violations are recorded and corrective actions are taken when necessary Requirement: Yes Applicability: All 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 Indicator: Evidence that all diving operations are | and changes are implemented to help prevent accidents. a. Employer records all health- and safety-related accidents. b. Employer maintains complete documentation for all occupational health and safety violations and investigations. c. Employer implements corrective action plans in response to any accidents that occur. Plans are documented and they include an analysis of root cause, actions to address root cause, actions to remediate, and actions to prevent future accidents of similar nature. d. Employees working in departments where accidents have occurred can explain what analysis has been done and what steps were taken or improvements made. a. Employer maintains documentation to confirm that all personnel are provided sufficient insurance to cover costs related to occupational accidents or injuries (if not covered under national law). Equal insurance coverage must include temporary, migrant or foreign workers. Written contract of employer responsibility to cover accident costs is acceptable | results. H&S accidents are reported in system database. H&S violations and investigations are reported in system database. Corrective action plan for accidents are developed and implemented, Root cause analysis to be applied. NC evidence: The records in management system are missing for root cause analysis results. No accidents took place at this site. Information from other sites provided via e-mail and monthly summary. Sufficient insurance is provided for all employees who has the contract with the company. | Compilant | management system are missing for root cause analysis results. Darius Pamakstys 08.04.2018: Closed | |
| 6.5.4 | accidents and violations are recorded and corrective actions are taken when necessary Requirement: Yes Applicability: All 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 Indicator: Evidence that all diving operations are conducted by divers who are certified Requirement: Yes | and changes are implemented to help prevent accidents. a. Employer records all health- and safety-related accidents. b. Employer maintains complete documentation for all occupational health and safety violations and investigations. c. Employer implements corrective action plans in response to any accidents that occur. Plans are documented and they include an analysis of root cases, actions to address root cases, actions to remediate, and actions to prevent future accidents of similar nature. d. Employees working in departments where accidents have occurred can explain what analysis has been done and what steps were taken or improvements made. a. Employer maintains documentation to confirm that all personnel are provided sufficient insurance to cover costs related to occupational accidents or injuries (if not covered under national laux). Equal insurance coverage must include temporary, migrant or foreign workers. Written contract of employer responsibility to cover accident costs is acceptable evidence in place of insurance. Note: If the farm outsources its diving operations to an independent company, the farm sha | results. H&S accidents are reported in system database. H&S violations and investigations are reported in system database. Corrective action plan for accidents are developed and implemented, Root cause analysis to be applied. NC evidence: The records in management system are missing for root cause analysis results. No accidents took place at this site. Information from other sites provided via e-mail and monthly summary. Sufficient insurance is provided for all employees who has the contract with the company. | Compilant | management system are missing for root cause analysis results. Darius Pamakstys 08.04.2018: Closed | |
| 6.5.4 | accidents and violations are recorded and corrective actions are taken when necessary Requirement: Yes Applicability: All 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 Indicator: Evidence that all diving operations are conducted by divers who are certified | and changes are implemented to help prevent accidents. a. Employer records all health- and safety-related accidents. b. Employer maintains complete documentation for all occupational health and safety violations and investigations. c. Employer implements corrective action plans in response to any accidents that occur. Plans are documented and they include an analysis of root cause, actions to address root cause, actions to remediate, and actions to prevent future accidents of similar nature. d. Employees working in departments where accidents have occurred can explain what analysis has been done and what steps were taken or improvements made. a. Employer maintains documentation to confirm that all personnel are provided sufficient insurance to cover costs related to occupational accidents or injuries (if not covered under national law). Equal insurance coverage must include temporary, migrant or foreign workers. Written contract of employer responsibility to cover accident costs is acceptable evidence in place of insurance. Note: If the farm outsources its diving operations to an independent company, the farm sha compliance with indicator 6.5.6. It is the farm's responsibility to obtain copies of relevant do case an external service provider was hired, a statement that provider conformed to all case an external service provider was hired, a statement that provider conformed to all | results. H&S accidents are reported in system database. H&S violations and investigations are reported in system database. Corrective action plan for accidents are developed and implemented, Root cause analysis to be applied. No evidence: The records in management system are missing for root cause analysis results. No accidents took place at this site. Information from other sites provided via e-mail and monthly summary. Sufficient insurance is provided for all employees who has the contract with the company. Ill ensure that auditors have access to specified information sufficient to demonstrate cumentation (e.g. certificates) from the dive company. The records of diving activities with the lists of personnel involved are maintained. | Compliant | management system are missing for root cause analysis results. Darius Pamakstys 08.04.2018: Closed No statement available. Darius Pamakstys 11.03.2018: Root cause, corrective and | |



| Footnote Footnote Footnote | Indicator: The percentage of workers whose basic wage [118] (before overtime and bonuses) is below the minimum wage [119] Requirement: 0 (None) Applicability: All Indicator: Evidence that the employer is working toward the payment of basic needs wage [120] Requirement: Yes Applicability: All | a. Employer keeps documents to show the legal minimum wage in the country of operation. If there is no legal minimum wage in the country, the employer keeps documents to show the industry-standard minimum wage. b. Employer's records (e.g. payroll) confirm that worker's wages for a standard work week (s 48 hours) always meet or exceed the legal minimum wage. If there is no legal minimum wage, the employer's records must show how the current wage meets or exceeds industry standard. If wages are based on piece-rate or pay-per-production, the employer's records must show how workers can reasonably attain (within regular working hours) wages that meet or exceed the legal minimum wage. c. Maintain documentary evidence (e.g. payroll, timesheets, punch cards, production records, and/or utility records) and be advised that workers will be interviewed to confirm the above. [118] Basic wage: The wages paid for a standar [119] If there is no legal minimum wage in a country, basic was a Proof of employer engagement with workers and their representative organizations, and the use of cost of living assessments from credible sources to assess basic needs wages. Includes review of any national basic needs wage recommendations from credible sources such as national universities or government. b. Employer has calculated the basic needs wage for farm workers and has compared it to the basic (i.e. current) wage for their farm workers. c. Employer demonstrates how they have taken steps toward paying a basic needs wage to their workers. | | Compliant | No evidences of employer and worker representatives cooperation to assess basic needs wages. Missing basic needs wage calculation. Darius Pamakstys 08.04.2018: Closed | |
|----------------------------|---|--|--|-------------------|--|----------|
| Footnote | [120] Basic needs wage: A wag | e that covers the basic needs of an individual or family, including housing, food and transport | t. This concept differs from a minimum wage, which is set by law and may or may not cover the | ne basic needs o | of workers. | |
| | Indicator: Evidence of transparency in wage-setting and rendering [121] | a. Wages and benefits are clearly articulated to workers and documented in contracts. | The contracts refer to tariff agreement for the wage. Other support and bonuses are presented in company's intranet. The benefits are defined in job proposals for employees. NC evidence: job contracts are missing the reference to documents with defined benefits and support. | | Job contracts are missing the reference to documents with defined benefits and | |
| 6.6.3 | Requirement: Yes Applicability: All | b. The method for setting wages is clearly stated and understood by workers. c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect | Interview confirms that method for setting wages is understood by workers. Payments are made into personal bank accounts. | Minor | support. Darius Pamakstys 11.03.2018: Root cause, corrective and | |
| | | d. Be advised that workers will be interviewed to confirm the above. | The interviews has confirmed above information. | | preventive actions Accepted | |
| Footnote | | [121] Payments shall be rendered to | | | | |
| | | Criterion 6.7 Contracts (labor) includi Complian | ing subcontracting ce Criteria | | | |
| | Indicator: Percentage of workers who have contracts [122] | a. Employer maintains a record of all employment contracts. | Contracts are maintained. | | | |
| 6.7.1 | Requirement: 100% | b. There is no evidence for labor-only contracting relationships or false apprenticeship schemes. | No evidences of labour-only contracting. | Compliant | | |
| | Applicability: All | c. Be advised that workers will be interviewed to confirm the above. | The interviews has confirmed above information. | | | |
| Footnote | | | to deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practic gal obligations or employ underage workers. Labor-only contracting arrangement: The practic he provision of legally required benefits, such as health and safety protections. | | | |
| | Indicator: Evidence of a policy to ensure social | Farm has a policy to ensure that all companies contracted to provide supplies or services (e.g. divers, deaning, maintenance) have socially responsible practices and policies. | The subcontractors evaluation procedure and related documents do not apply social accountability criteria. NC evidence: Missing documents and records, Interview with management. | | Missing documents and records, Interview with management. Very few records of communications with suppliers and | |
| 6.7.2 | compliance of its suppliers and contractors Requirement: Yes Applicability: All | b. Producing company has criteria for evaluating its suppliers and contractors. The company keeps a list of approved suppliers and contractors. | Company has list of approved subcontractors, but social accountability criteria were not used for approval. NC evidence: Missing documents and records, Interview with management. | Minor | subcontractors that relate to compliance with 6.7.2 are maintained. Darius Pamakstys | |
| | | c. Producing company keeps records of communications with suppliers and subcontractors that relate to compliance with 6.7.2. Criterion 6.8 Conflict resc | relate to compliance with 6.7.2 are maintained. | | 11.03.2018: Root cause, corrective and preventive actions Accepted | |
| | | Complian | Ice Criteria NC evidence: The whistle blowing policy is not fully developed to provide conflict resolution in a confidential manner. | | The whistle blowing | |
| 6.8.1 | Indicator: Evidence of worker access to effective, fair and confidential grievance procedures Requirement: Yes | b. Workers are familiar with the company's labor conflict policies and procedures. There is evidence that workers have fair access. | Workers demonstrate understanding of conflict resolution. | Compliant | policy is not fully developed to provide conflict resolution in a confidential manner. | |
| | Applicability: All | c. Maintain documentary evidence (e.g. complaint or grievance filings, minutes from review meetings) and be advised that workers will be interviewed to confirm the above. | No conflict cases identified. | | Darius Pamakstys 08.04.2018: Closed | |
| | Indicator: Percentage of grievances handled that are | a. Employer maintains a record of all grievances, complaints and labor conflicts that are raised. | No records, as were no cases. | | | |
| 6.8.2 | addressed [123] within a 90-day timeframe | b. Employer keeps a record of follow-up (i.e. corrective actions) and timeframe in which grievances are addressed. | No records, as were no cases. | N/A | No records, as were no cases. | |
| | Requirement: 100% Applicability: All | c. Maintain documentary evidence and be advised that workers will be interviewed to | No records, as were no cases. Interview confirms no cases fact. | | Lases. | |
| Footnote | • | confirm that grievances are addressed within a 90-day timeframe. [123] Addressed: Acknowledged and received, moving through the compa | | | | |
| | | Criterion 6.9 Disciplinary p | | | | |
| | Indicator: Incidences of excessive or abusive disciplinary | a. Employer does not use threatening, humiliating or punishing disciplinary practices that negatively impact a worker's physical and mental health or dignity. | No evidences of incorrect behaviour. | | | |
| 6.9.1 | actions Requirement: None | b. Allegations of corporeal punishment, mental abuse [124], physical coercion, or verbal abuse will be investigated by auditors. | No cases identified. | Compliant | | |
| | Applicability: All | c. Be advised that workers will be interviewed to confirm there is no evidence for excessive or abusive disciplinary actions. | The interviews has confirmed above information. | | | |
| Footnote | | [124] Mental Abuse: Characterized by the intentional use of power, including verbal ab | | | | |
| 6.9.2 | Indicator: Evidence of a functioning disciplinary action policy whose aim is to improve the worker [125] Requirement: Yes | Employer has written policy for disciplinary action which explicitly states that its aim is to improve the worker [125]. Maintain documentary evidence (e.g. worker evaluation reports) and be advised that | The disciplinary actions are defined in Working rules of the company. | Compliant | | |
| | Applicability: All | workers will be interviewed to confirm that the disciplinary action policy is fair and effective. | The interviews has confirmed fair and effective disciplinary policy. | | | |
| Footnote | [125] If disciplinary action is required, progressive verbal | arbitrarily. Fines or basic wage deductions sha | | ns are clearly st | ated and understood, and | not used |
| | | Criterion 6.10 Working hours a Complian | nd overtime nce criteria | | | |
| | | Note: Working hours, night work and rest periods for workers in agriculture should be in acc Health in Agriculture Convention, 2001). Additional information can be found on the websit | | | | |



| Footnote 6.10.2 | Indicator: Incidences, violations or abuse of working hours and overtime laws [126] Requirement: None Applicability: All Indicator: Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional circumstances Requirement: Yes Applicability: All except as noted in [130] | a. Employer has documentation showing the legal requirements for working hours and overtime in the region where the farm operates. If local legislation allows workers to esceed internationally accepted recommendations (48 regular hours, 12 hours overtime) then requirements of the international standards apply. b. Records (e.g. time sheets and payroll) show that farm workers do not exceed the number of working hours allowed under the law. c. If an employer requires employees to work shifts at the farm (e.g. 10 days on and six days off), the employer compensates workers with an equivalent time of in the calendar month and there is evidence that employees have agreed to this schedule (e.g. in the hiring contract). d. Be advised that workers will be interviewed to confirm these is on abuse of working hours and overtime laws. cases where local legislation on working hours and overtime exceed internationally accepted a. Payment records (e.g. payslips) show that workers are paid a premium rate for overtime hours. b. Overtime is limited and occurs in exceptional circumstances as evidenced by farm records (e.g. production records, time sheets, and other records of working hours). c. Be advised that workers will be interviewed to confirm the other records of working hours). | The working time schemes are approved in Tariff agreement with Trade unions. In line with 6.10.1 c) The scheme of 7 days on-job and 7 days-off is used with 10 hours of working day not including lunch break. The working time is managed within legal requirements. The scheme 7 by 7 is used with 10 hours of working day. The working time and off-time are balanced. The work in shifts is defined in job contracts. The interviews has confirmed above information. recommendations (48 regular hours, 12 hours overtime), the international standards will app Overtime is paid at premium rate. Overtime is managed within labour law The interviews has confirmed voluntary overtime, the special cases agreed in collective | Compliant oby. | |
|---|--|--|--|--|--|
| Footnote | Applicability. All except as noted in [130] | compulsory overtime. [127] Compulsory overtime is permitted if previously a | bargaining agreement. greed to under a collective bargaining agreement. | | |
| Footnote | | [128] Premium rate: A rate of pay higher than the regular work week rate. N | Must comply with national laws/regulations and/or industry standards. | | |
| 6.11.1 | Indicator: Evidence that the company regularly performs training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes | | ce criteria Policy of supporting education is presented in job offer, what is part of the contract. The financial support for training is given. | Compliant | |
| | Applicability: All | evidenced by course documentation (e.g. list of courses, curricula, certificates, degrees). | Records available in HR IT system and in personal files on site. | | |
| | | c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company. Criterion 6.12 Corporate policies for s | The interviews has confirmed education encouraging by managers. | | |
| | | | ce criteria | | |
| | Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11 above | through 6.11. b. Company-level policies (see 6.12.1a) are approved by the company headquarters in the region where the site applying for certification is located. | Company level policies in place. Approved. | | |
| | Requirement: Yes Applicability: All | c. The scope of corporate policies (see 6.12.1a) covers all company operations relating to salmonid production in the region (i.e. all smolt production facilities, grow-out facilities and processing plants). d. The site that is applying for certification provides auditors with access to all company- | Applied in whole company. Access is provided, policies verified. | Compliant | |
| | | level policies and procedures as are needed to verify compliance with 6.12.1a (above). | | | |
| ootnote | [129] Applies to the headquarters of the co | mpany in a region or country where the site applying for certification is located. The policy sh Social requirements in the standards shall be audited by an individual who is a le | all relate to all of the company's operations in the region or country, including grow-out, smo | lt production a | nd processing facilities. |
| INCIPLE 7: F | BE A GOOD NEIGHBOR AND CONSCIENTIOUS CITIZEN | Criterion 7.1 Community eng | | | |
| - 1 | | | ce Criteria | | |
| 7.1.1 | Indicator: Evidence of regular and meaningful [130] consultation and engagement with community representatives and organizations Requirement: Yes | every year (bi-annually). b. Consultations are meaningful. OPTIONAL: the farm may choose to use participatory Social Impact Assessment (pSIA) or an equivalent method for consultations. c. Consultations include participation by representatives from the local community who were asked to contribute to the agenda. d. Consultations include communication about, or discussion of, the potential health risks | NC evidence: Only invitation was sent to interested parties on 2018-01-24. NC evidence: No information available Invitation is asking for contribution to agenda. Included in agenda. NC evidence: no other documents available. | Minor | Only invitation was sent to interested parties on 2018-01-24. No information available. Missing documents. Darius Pamakstys |
| | Applicability: All | of therapeutic treatments (see Indicator 7.1.3). e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to | Meeting agenda is available. | | 11.03.2018: Root cause, corrective and preventive actions |
| | | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. 1. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. | NC evidence: missing documents. No interview were used with stakeholders. | | corrective and preventive actions Accepted |
| ootnote | | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. 1. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. | NC evidence: missing documents. | ssessment me | corrective and preventive actions Accepted |
| | [130] Regular and meaningful: Meetings shall be held at Indicator: Presence and evidence of an effective [131] policy and mechanism for the presentation, treatment | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. f. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. east bi-annually with elected representatives of affected communities. The agenda for the method in the complex of the | NC evidence: missing documents. No interview were used with stakeholders. eetings should in part be set by the community representatives. Participatory Social Impact A Complaint handling procedure is developed for internal issues. NC evidence: missing documents | sssessment me | corrective and preventive actions Accepted |
| 7.1.2 | [130] Regular and meaningful: Meetings shall be held at Indicator: Presence and evidence of an effective [131] policy and mechanism of the presentation, treatment and resolution of complaints by community stakeholders and organizations | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. f. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. least bi-annually with elected representatives of affected communities. The agenda for the market and the confirming the communities of the market. a. Farm policy provides a mechanism for presentation, treatment and resolution of complaints lodged by stakeholders, community members, and organizations. | NC evidence: missing documents. No interview were used with stakeholders. eetings should in part be set by the community representatives. Participatory Social Impact A Complaint handling procedure is developed for internal issues. | compliant | corrective and preventive actions Accepted |
| 7.1.2 | [130] Regular and meaningful: Meetings shall be held at Indicator: Presence and evidence of an effective [131] policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. f. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. east bi-annually with elected representatives of affected communities. The agenda for the metal heavy of the communities of the agenta of the metal heavy of the complaints of the provides a mechanism for presentation, treatment and resolution of complaints lodged by stakeholders, community members, and organizations. b. The farm follows its policy for handling stakeholder complaints as evidenced by farm documentation (e.g. follow-up communications with stakeholders, reports to stakeholder describing corrective actions). c. The farm's mechanism for handling complaints is effective based on resolution of stakeholder complaints (e.g. follow-up correspondence from stakeholders). d. Be advised that representatives from the local community, including complainants where | NC evidence: missing documents. No interview were used with stakeholders. eetings should in part be set by the community representatives. Participatory Social Impact A Complaint handling procedure is developed for internal issues. NC evidence: missing documents No complains received. | | corrective and preventive actions Accepted Accep |
| 7.1.2 | [130] Regular and meaningful: Meetings shall be held at Indicator: Presence and evidence of an effective [131] policy and mechanism of the presentation, treatment and resolution of complaints by community stakeholders and organizations | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. 1. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. 1. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. 1. Beat bi-annually with elected representatives of affected communities. The agenda for the maches. 2. Farm policy provides a mechanism for presentation, treatment and resolution of complaints lodged by stakeholders, community members, and organizations. 2. The farm follows its policy for handling stakeholder complaints as evidenced by farm documentation (e.g. follow-up communications with stakeholders, reports to stakeholder describing corrective actions). 2. The farm's mechanism for handling complaints is effective based on resolution of stakeholder complaints (e.g. follow-up correspondence from stakeholders). | NC evidence: missing documents. No interview were used with stakeholders. eetings should in part be set by the community representatives. Participatory Social Impact A Complaint handling procedure is developed for internal issues. NC evidence: missing documents No complains received. No complains received. | | corrective and preventive actions Accepted Accep |
| 7.1.2 Footnote 7.1.3 | [130] Regular and meaningful: Meetings shall be held at Indicator: Presence and evidence of an effective [131] policy and mechanism of the presentation, treatment and resolution of complaints by community stakeholders and organizations | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. f. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. least bi-annually with elected representatives of affected communities. The agenda for the merchanism for presentation, treatment and resolution of complaints lodged by stakeholders, community members, and organizations. b. The farm follows its policy for handling stakeholder complaints as evidenced by farm documentation (e.g. follow-up communications with stakeholders, reports to stakeholder describing corrective actions). c. The farm's mechanism for handling complaints is effective based on resolution of stakeholder complaints (e.g. follow-up correspondence from stakeholders). d. Be advised that representatives from the local community, including complainants where applicable, may be interviewed to confirm the above. | NC evidence: missing documents. No interview were used with stakeholders. eetings should in part be set by the community representatives. Participatory Social Impact A Complaint handling procedure is developed for internal issues. NC evidence: missing documents No complains received. No complains received. | | corrective and preventive actions Accepted thods may be one option to consultation and preventive actions of the consultation meeting. See NC in 7.1.1 Darius Pamakstys 10.3.2018: Root cause, corrective and preventive actions |
| 7.1.2 ootnote | [130] Regular and meaningful: Meetings shall be held at indicator: Presence and evidence of an effective [131] policy and mechanism for the presentation, reatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All 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 | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. 1. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. 1. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. 1. Beast bi-annually with elected representatives of affected communities. The agenda for the meter. 2. Farm policy provides a mechanism for presentation, treatment and resolution of complaints oldeged by stakeholders, community members, and organizations. 2. The farm follows its policy for handling stakeholder complaints as evidenced by farm documentation (e.g. follow-up communications with stakeholders, reports to stakeholder describing corrective actions). 2. The farm's mechanism for handling complaints is effective based on resolution of stakeholder complaints (e.g. follow-up correspondence from stakeholders). 3. Be advised that representatives from the local community, including complainants where applicable, may be interviewed to confirm the above. 13.1 Effective: In order to demonstrate that the mechanism is ear farm has a system for posting notifications at the farm during periods of therapeutic treatment. (use of aneastatic baths is not regarded a therapeutant) 3. Notices (above) are posted where they will be visible to affected stakeholders (e.g. posted on waterways for fishermen who pass by the farm). 3. Farm communicates about the potential health risks from treatments during community. | NC evidence: missing documents. No interview were used with stakeholders. eetings should in part be set by the community representatives. Participatory Social Impact A Complaint handling procedure is developed for internal issues. NC evidence: missing documents No complains received. No complains received. No interview were used with stakeholders fective, evidence of resolutions of complaints can be given. Company has system for posting the notifications at the sites during the therapeutic treatments. The sings will be posted on the site during the treatments. The health risks were not communicated during consultation meetings. | Compliant | corrective and preventive actions Accepted thods may be one option to consultation meeting. See NC in 7.1.1 Darius Pamakstys 11.03.2018: Root cause, corrective and |
| 7.1.2 Footnote | [130] Regular and meaningful: Meetings shall be held at 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 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 | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. f. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. east bi-annually with elected representatives of affected communities. The agenda for the methers. a. Farm policy provides a mechanism for presentation, treatment and resolution of complaints lodged by stakeholders, community members, and organizations. b. The farm follows its policy for handling stakeholder complaints as evidenced by farm documentation (e.g. follow-up communications with stakeholders, reports to stakeholder describing corrective actions). c. The farm's mechanism for handling complaints is effective based on resolution of stakeholder complaints (e.g. follow-up correspondence from stakeholders). d. Be advised that representatives from the local community, including complainants where applicable, may be interviewed to confirm the above. [131] Effective: In order to demonstrate that the mechanism is expected by the farm during periods of therapeutic treatment. (use of aneastatic baths is not regarded a therapeutant) b. Notices (above) are posted where they will be visible to affected stakeholders (e.g. posted on waterways for finhermen who pass by the farm). c. Farm communicates about the potential health risks from treatments during community consultations (see 7.1.1) d. Be advised that members of the local community may be interviewed to confirm the above. | NC evidence: missing documents. No interview were used with stakeholders. eetings should in part be set by the community representatives. Participatory Social Impact A Complaint handling procedure is developed for internal issues. NC evidence: missing documents No complains received. No complains received. No interview were used with stakeholders fective, evidence of resolutions of complaints can be given. Company has system for posting the notifications at the sites during the therapeutic treatments. The sings will be posted on the site during the treatments. The health risks were not communicated during consultation meetings. NC evidence: No consultation meeting. See NC in 7.1.1 No interview were used with stakeholders example, to fishermen passing by the farm. | Compliant | corrective and preventive actions Accepted thods may be one option to consultation and preventive actions of the consultation meeting. See NC in 7.1.1 Darius Pamakstys 10.3.2018: Root cause, corrective and preventive actions |
| 7.1.2 7.1.3 7.1.3 The ASC Salni | [130] Regular and meaningful: Meetings shall be held at 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 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 mon Standard requires that farms must be respectful of the boundaries of indigenous groups have a defined legal state the behind the ASC Salmon Standard is that the farm will ide to behind the ASC Salmon Standard is that the farm will ide to behind the ASC Salmon Standard is that the farm will ide to behind the ASC Salmon Standard is that the farm will ide. | e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. f. Be advised that representatives from the local community and organizations may be interviewed to confirm the above. east bi-annually with elected representatives of affected communities. The agenda for the method in the complaints lodged by stakeholders, community members, and organizations. b. The farm follows its policy for handling stakeholder complaints as evidenced by farm documentation (e.g. follow-up community members, and organizations. b. The farm follows its policy for handling stakeholder complaints as evidenced by farm documentation (e.g. follow-up communications with stakeholders, reports to stakeholder describing corrective actions). c. The farm's mechanism for handling complaints is effective based on resolution of stakeholder corneplaints (e.g. follow-up correspondence from stakeholders). d. Be advised that representatives from the local community, including complainants where applicable, may be interviewed to confirm the above. [131] Effective: In order to demonstrate that the mechanism is expected by the farm of the stakeholder of the properties of the representatives for many the stakeholder of the stakeholders of the report of the report of the stakeholders of the report | No envidence: missing documents. No interview were used with stakeholders. eetings should in part be set by the community representatives. Participatory Social Impact A Complaint handling procedure is developed for internal issues. No evidence: missing documents No complains received. No complains received. No interview were used with stakeholders fective, evidence of resolutions of complaints can be given. Company has system for posting the notifications at the sites during the therapeutic treatments. The sings will be posted on the site during the treatments. The health risks were not communicated during consultation meetings. No evidence: No consultation meeting. See NC in 7.1.1 No interview were used with stakeholders example, to fishermen passing by the farm. uitures and traditional territorie. to Citeria Donal Territories of Indigenous Groups esigned to fulfil this purpose in a manner consistent with the United Nations Declaration on tham is operating in close proximity to indigenous people. However, when boundaries of indigendigenous groups. Here ASC provides the following guidance. The actual physical distance between the farm and an indigenous group is less important the arrent process of consultation, indigenous groups is less important the arrent process of consultation, indigenous groups by the farm. | Minor the Rights of In enous territorian understand | corrective and preventive actions Accepted thods may be one option to consultation and preventive and preventive actions Pamakstys 08.04.2018: Closed No consultation meeting. See NC in 7.11 Darus. Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted digenous Peoples. In many locales are undefined or unknown, the great whether the farm is having a whether the farm is having a greater of the preventive actions are undefined or unknown, the greater of the preventive actions are undefined or unknown, the greater of the preventive actions are undefined or unknown, the greater of the prevention and the preventive actions are undefined or unknown, the greater of the prevention and the prevention and the prevention and the prevention are undefined or unknown, the greater of the prevention and the prevention are undefined or unknown, the greater of the prevention and the prevention and the prevention and the prevention are the prevention are the prevention are the prevention and the prevention are the prevention are the prevention and the prevention are the prevention are the prevention are the p |
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Sample and the proposition of the local community may be interviewed to confirm the above. 3. Sample and CABs on Criterion 7.2. Tradition the radit | No envidence: missing documents. No interview were used with stakeholders. eetings should in part be set by the community representatives. Participatory Social Impact A Complaint handling procedure is developed for internal issues. No evidence: missing documents No complains received. No complains received. No interview were used with stakeholders fective, evidence of resolutions of complaints can be given. Company has system for posting the notifications at the sites during the therapeutic treatments. The sings will be posted on the site during the treatments. The health risks were not communicated during consultation meetings. No evidence: No consultation meeting. 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Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted digenous Peoples. In many locales are undefined or unknown, the great whether the farm is having a whether the farm is having a greater of the preventive actions are undefined or unknown, the greater of the preventive actions are undefined or unknown, the greater of the preventive actions are undefined or unknown, the greater of the prevention and the preventive actions are undefined or unknown, the greater of the prevention and the prevention and the prevention and the prevention are undefined or unknown, the greater of the prevention and the prevention are undefined or unknown, the greater of the prevention and the prevention and the prevention and the prevention are the prevention are the prevention are the prevention and the prevention are the prevention are the prevention and the prevention are the prevention are the prevention are the p |



| 7.2.1 7.2.2 | Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133] 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] | c. As required by law in the jurisdiction: - farm consults with indigenous groups and retains documentary evidence (e.g. meeting minutes, summanley to show how the process complies with 7.2.1b; OR - farm confirms that government-to-government consultation occurred and obtains documentary evidence. d. Be advised that representatives from indigenous groups may be interviewed to confirm the above. a. See results of 7.2.1a (above) to determine whether the requirements of 7.2.2 apply to the farm. b. Be advised that representatives from indigenous communities may be interviewed to confirm that the farm has undertaken proactive consultations. | No traditional and indigenous groups are involved in the vicinity of the farm. No traditional and indigenous groups are involved. No traditional and indigenous groups are involved. | N/A | indigenous groups are involved. No traditional and indigenous groups are involved. | |
|----------------|--|--|---|------------------|---|----------|
| Footnote | | [133] All standards related to indigenous rights only apply who a. See results of 7.2.1a (above) to determine whether the requirements of 7.2.3 apply to | re relevant, based on proximity of indigenous territories. No specific protocol agreement is developed, as no interest from indigenous community | | | |
| 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] | the farm. b. Maintain evidence to show that the farm has either: 1) reached a protocol agreement with the indigenous community and this fact is documented; or 2) continued engagement in an active process [134] to reach a protocol agreement with the indigenous community. c. Be advised that representatives from indigenous communities may be interviewed to | expressed. No specific protocol agreement is developed, as no interest from indigenous community | N/A | No specific protocol agreement is developed, as no interest from indigenous community expressed. | |
| | | confirm either 7.2.3b1 or b2 (above) as applicable. | process include local Sami groups. | | | |
| Footnote | [134] To demonstrate an active process, a fare | | ng of key community concerns and responsiveness to key community concerns through adapt | ive farm manag | ement and other actions. | |
| | | Criterion 7.3 Access to res Compliar | ources ce Criteria | | | |
| | | a. Resources that are vital [135] to the community have been documented and are known by the farm (i.e. through the assessment process required under Indicator 7.3.2). | The resources are assessed and communicated with community during the operation licence application processing. | | | |
| 7.3.1 | Indicator: Changes undertaken restricting access to vital community resources [135] without community approval Requirement: None Applicability: All | b. The farm seeks and obtains community approval before undertaking changes that restrict access to vital community resources. Approvals are documented. | The resources are assessed and communicated with community during the operation licence application processing. Any changes, having influence to resources, during operation undergo hearing process prior to their implementation. | Compliant | | |
| | | c. Be advised that representatives from the community may be interviewed to confirm that the farm has not restricted access to vital resources without prior community approval. | No interview were used with stakeholders | | | |
| Footnote | [135] Vital community resources can include freshwate | er, land or other natural resources that communities rely on for their livelihood. If a farm site | were to block, for example, a community's sole access point to a needed freshwater resource | , this would be | unacceptable under the Dia | logue |
| Tobalote | | standa | rd. The resources are assessed and communicated with community during the operation | | T | |
| 7.3.2 | Indicator: Evidence of assessments of company's impact on access to resources Requirement: Yes | a. There is a documented assessment of the farm's impact upon access to resources. Can be completed as part of community consultations under 7.1.1. | The resources are assessed and communicated with community during the uperaturn liferense application processing. Any changes, having influence to resources, during operation undergo hearing process prior to their implementation. | Compliant | | |
| | Applicability: All | b. Be advised that representatives from the community may be interviewed to generally corroborate the accuracy of conclusions presented in 7.3.2a. | No interview were used with stakeholders | | | |
| A farm seek | king certification must have documentation from all of its s | INDICATORS AND STANDARDS FOR SI molt suppliers to demonstrate compliance with the following standards. The requirements a specific standards are applied to open systems (net pens), and to closed and s | re, in general, a subset of the standards in Principles 1 through 7, focusing on the impacts tha | t are most relev | rant for smolt facilities. In ac | ldition, |
| Footnote | [136] The SAD SC proposes this approach to addressing (| | term, the SC anticipates a system to audit smolt production facilities on site. In the meantime, | farms will need | d to work with their smolt s | uppliers |
| SECTION 8. 3 | TANDARDS FOR SUFFEERS OF SWIDE | Standards related to Prin Compliance Criteria (Required Client Actions): | ciple 1 Auditor Evaluation (Required CAB Actions): | | Tiergeland Smort | |
| | | 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). | Closed. Submitted to ASC 09.02.2018 | | | |
| 8.1 | Indicator: Compliance with local and national regulations on water use and discharge, specifically providing permits related to water quality | b. Where legal authorization related to water quality are required, obtain copies of smolt suppliers' permits. | License from Nordland Fylkeskommune 12.03.2014, NR47, for 8 million smolt. Discharge license from Fylkesmannen i Nordland 25.11.2013 for 8 million smolt/2000 ton feed. Requires MOM-8 survey every 4th year and cleansing of discharge water (50 % reduction of suspended solids and 20% reduction of organic matter). | Minor | Discharge permit states cleansing of discharge water, not seen evidence of fully functioning cleansing. | |
| | Requirement: Yes | c. Obtain records from smolt suppliers showing monitoring and compliance with discharge laws, regulations, and permit requirements as required. | Inspection report from Directorate of Fisheries 10.05.2016 states no non-conformances. | | Jan Petter Kosmo 13.03.2018: Root cause, corrective and | |
| | Applicability: All Smolt Producers | - | Discharge permit states cleansing of discharge water, not seen evidence of fully functioning cleansing. Water sample 02.01.2018: 96% cleansing of SS, 22,2% cleansing of KOF. Water sample 02.08.2017: 90.2% cleansing of SS, 93,9% cleansing of KOF. Water sample 28.03.2017: 12,3% cleansing of SS, 35,7% cleansing of KOF. Water sample 21.02.2017: 31,3% cleansing of SS, 30,9% cleansing of KOF. They are working to improve system of cleaning after problems in 2017/18 | | preventive actions Accepted | |
| 8.2 | Indicator: Compliance with labor laws and regulations Requirement: Yes | a. Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations. | The statement of compliance to requirements of ASC standard principle 6.1 - 6.11 and labour laws is available (signed on 2018-01-26) | Compliant | | |
| | Applicability: All Smolt Producers | b. Keep records of supplier inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation; see $1.1.3a$) | Labour law inspection 2017-05-17 with no deviations found. | | | |
| | | Standards related to Prin | | | | |
| | T | Compliance Criteria (Required Client Actions): | Auditor Evaluation (Required CAB Actions): sity impact (e.g. as part of the regulatory permitting process), the farm may obtain and use | | | |
| | | | | | | |
| | | Note: if the smolt facility has previously undertaken an independent assessment of biodiver such documents as evidence to demonstrate compliance with Indicator 8.3 as long as all con | mponents 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 | | mponents are covered. Risk assessment for environment 13.11.2017 includes escape, chemicals, waste , infection, biodiversity, etc. MOM-8 by Argus Miljø 06.09.2012, status 1. Not seen MOM-8 last 4 years as stated in discharge permit (production started in 2016). | Minor | Not seen MOM-B last 4 years as stated in discharge permit (production started in 2016). Jan Petter Kosmo | |



| A Count of the count of planes are counted in counts of the count of planes are counted in counts of the count of planes are counted in counts of planes are counted in counted in count of planes are counted in coun | | indicator. Maximum total amount of phosphorus | Farms must confirm that each of their smolt suppliers complies with the requirement of indificality can release into the environment per metric ton (mt) of fish produced over a 12-mon made using a "mass balance" approach. Detailed instructions and formulas are given in App III applicable, farms may take account of any physical removals of phosphorus in the form of the smolt supplier has records showing the total quantity of sludge removed from site over the supplier determined phosphorus concentration (% P) in removed sludge by sampling as the sludge was properly disposed off site and in accordance with the farm's biosolid manage. | cator 8.4. This specifies the maximum amount of phosphorus that a smolt production th period. The requirement is set at 4 kg/mt. The calculation of total phosphorus released is endix VIII-1. sludge provided there is evidence to show: the relevant time period; of analysing representative batches; and | | | |
|--|----------|--|--|---|----------------|----------------------------|---------------------------------------|
| The control of the co | | indicator. Maximum total amount of phosphorus | the smolt supplier has records showing the total quantity of sludge removed from site over- the supplier determined phosphorus concentration (% P) in removed sludge by sampling at the sludge was properly disposed off site and in accordance with the farm's biosolid manage. | r the relevant time period; nd analysing representative batches; and | | | |
| who the recognition of the relation of the register of the recognition | | ndicator. Maximum total amount of phosphorus | | | | | |
| International Control | | ndicator: Maximum total amount of phosphorus | | Used feed 2017: 1 394 360 kg (80% EWOS, 19% Polarfeed and 1% BioMar). | | | |
| Compare of the property of the compare of the com | | eleased into the environment per metric ton (mt) of | phosphorus content as determined by chemical analysis or based on feed supplier | Calculated average approx. 1,51 %. | | | |
| A data of the control of programs of the control | R | nonth period | | | | | |
| The first birth Agended to 16. If any place is designed to the process to the service supplies and 12 condition. If any place is designed to the process to the service supplies and 12 condition. If a line for the condition of the condition of the process to the condition of | A | | sufficient to calculate the amount of biomass produced (formula in Appendix VIII-1) during | Produced biomass: 1 636 931 kg | Compliant | | 10,8 kg/ton biomass produced |
| Page | | | | | | | |
| Final production in the control systems in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system is the control system in the control system in the control system in the control system is the control system in t | | | | Delivered mud: 29 400 kg | | | |
| Some written control products of Control Management (Part Andronic) A Control written control products of Control Management (Part Andronic) A Control written control products of Control Management (Part Andronic) A Control written control products of Control Management (Part Andronic) A Control written control products of Control Management (Part Andronic) A Control written control products of Control Management (Part Andronic) A Control M | | | phosphorus released per ton of smolt produced and verify that the smolt supplier is in compliance with requirements. | P discharged: 10,8 kg/ton biomass produced VR accepted by ASC 05.09.2014 | | | |
| in the control of the | | | | | | | |
| Interest to the second control of persons in being produced, the formation special control of persons with the various various particulars of produced produced on the ASC persons of produced produced in the persons with the various various particulars of persons with the various variou | | | a. Obtain written evidence showing whether the smolt supplier produces a non-native species or not. If not, then Indicator 8.5 does not apply. | Salmo salar is native to region. | | | |
| In the area prior to the publication of the ACS Calamo. Some or the publication of the ACS Calamo. And Calamond Calamon of the Calamon of t | Ir | | commercially produced in the area before publication of the ASC Salmon Standard. (See | Salmo salar is native to region. | | | |
| # If the words application compared to the form with reviewors for \$5 or \$5,0 prodes Applicability of directly Production services an extend of compared to the compared of th | ir St | n the area prior to the publication of the ASC Salmon | | Salmo salar is native to region. | N/A | Salmo salar is native to | |
| indicator. Maximum number of escapes [138] in the most receipt products on the fact and southern to the substance of the standard of the stand | R | Applicability: All Smolt Producers except as noted in 137] | 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 | Salmo salar is native to region. | N/A | region. | |
| 137) Exceptions shall be made for production systems that use 100 general series fish or systems that demonstrate separation from the wild by effective physical barriers that are in place and well-maintained to ensure no escapes of rearred specimens or biological material that might sure and substituting reproduce. a. Distant documentary evidence to show that smot supplies material monotoring excords all incidences of confirmed or suspected escapes, specifying date, cause, and extracted number of faith that escaped. Verified by Directorate of Fisheries escape incidents overview (www. fidz. ro.) b. Using unote supplier records from 8.6s, determine the total number of fish that escaped. Verified by Directorate of Fisheries escape incidents overview (www. fidz. ro.) c. Inform smoll suppliers in writing that monitoring records described in East must be into a specific for the escape incidents of the production of scale in 1339). Applicability: All Smolt Producers except as noted in 1339] a. If an except exception control is all scale in 1339, and the form many request as row exception to this standard (133) Requests monitor of the producer could not have predicted the events that caused the escape espoide. [139] A rare exception to this standard may be made for an escape event that is clearly documented as being considered in the first producer could not have predicted the events that caused the escape espoide. [138] A rare exception to this standard may be made for an escape event that is clearly documented as being counted from the producer could not have predicted the events that caused the escape espoide. [139] A rare exception to this standard may be made for an escape event that is clearly documented as being counted from the producer could not have predicted the events that caused the escape espoide. [139] A rare exception to this standard may be made for an escape event that is clearly documented as being counted as the counted as a large count of the producer could not have predicted the events th | | | subsequently reproduce. e. Retain evidence as described in 8.5a-d necessary to show compliance of each facility | Salmo salar is native to region. | | | |
| Compliant Comp | | | | ective physical barriers that are in place and well-maintained to ensure no escapes of reared s | pecimens or bi | ological material that mig | tht survive |
| records of all incidence of confirmed or suspected escapes, specifying date, cause, and leave fail fail. (2) Luing smolt supplier records from 8.6a, determine the total number of fish that escaped. Verify that there were fewer than 300 escapees from the smolt production facility in the most recent production cycle. 8.6 Requirement: 300 fish [139] Applicability: All Smolt Producers except as noted in [139] 4. Fain escape optiode occurs at the smolt production facility in the most recent production cycle. In a capping protein family of the exception of the scaped production cycle for which the farm is applying for memory request a rare exception to the Standard [139], Requirement and the fail account of the espode and must document thow the smolt production facility (i.e. an incident where > 300 fish escaped). The many request a rare exception to the Standard [139] Requirement provides a full account of the espode and must document thou the smolt production facility (ii.e. an incident where > 300 fish escaped). The many request a rare exception to the Standard [139] Requirement provides and full account of the espode and must document though the smolt production required for succession and the production of the standard [139] Requirement provides and full account of the espode and must document though the smolt production required for succession and the production required to the standard [139] Requirement provides and full account of the espode and must document though the smolt production required for succession and suppliers (incident reported. Verified by Directorate of Fisheries escape incidents overview (invov. fidir.no.) Tooltote Footnote [138] Farms shall report all escapes the total aggregated number of escapes per production cycle must be less than 300 fish. [139] A rare exception to this standard may be made for an escape event that is clearly documented as being outside of the farm to activation. Only the succession and the production cycle for which the farm is applying for certification. The | Footnote | | | | | | |
| Indicator: Maximum number of escapees [138] in the most recent production cycle 8.6 Applicability: All Smolt Producers except an noted in [139] Compliant Footnote [138] Farms shall reported store that caused the scape episode occurs at the smolt production facility (i.e. an incident where > 300 fish. Escaped), the farm is applying for extriction for escape production cycle for which the farm is applying for extrictions for eachy obscinate that the rew and resonable way to predict to events that caused the ejacobic. Estimate weather (e.g., 100-year storming) according number at sea net internal counters PW sites counts at vaccination numbers used for stocking number at sea net cage, internal counters PW sites counts at vaccination (count fish by dose of vaccine). Footnote Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from an exception of the smolt supplier's counting technology or oncounting method is 2 980. Footnote Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from an exception to produce for counting method is 2 980. Requirement: 296% Applicability: All Smolt Producers Indicator: Evidence of a functioning policy for proper and records to world; that accuracy of the smolt supplier's counting mechanics and through common estimates of more for any hand counts. Footnote Compliant On A counting performed at FW site, vaccination numbers used for stocking number at sea net cage, internal counters FW sites counts at vaccination (count fish by dose of vaccine). Footnote Indicator: Evidence of a functioning policy for proper and proposed through the footnote of the supplier's counting mechanics and through common estimates of more for any hand counts. Compliant Compliant Footnote Indicator: Evidence of a functioning policy for proper and repossible treatment of non-biological waste from | | | records of all incidences of confirmed or suspected escapes, specifying date, cause, and | | | | |
| Applicability: All Smoth Producers except as noted in [139] Applicability: All Smoth Producers except as noted in [139]. d. if an excape episode occurs at the smoth production facility (i.e. an incident where > 300 fish excaped), the farm may request a rare exception to the sandard [139], each incident where > 300 fish excaped), the farm may request a rare exception to the Standard [139], each incident where > 300 fish excaped), the farm may request a rare exception to the Standard [139], Requests must be production facility (i.e. an incident where > 300 fish excaped), the farm may request a rare exception to the standard [139], Requests must be predicted the events that caused the escape episode. [138] A rare exception to this standard may be made for an escape event that is clearly documented as being outside of the farm's control. Only one such exception 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 for exception the exception. Indicator: Accuracy [140] of the counting technology or accident caused by a some standard of the same and a counting technology or counting method used for calculating the number of fish of the farm's control, only one such exception all production numbers used for stocking number at sea net cape. Indicator: Accuracy [140] of the counting technology or counting method used for calculating the number of fish of the counting technology or counting method used for calculating the number of fish of the counting technology or counting method used for calculating the number of fish of the counting technology or counting method as a count of the purpose of the counting technology or counting method as a count of the purpose of the counting technology or counting method used for calculating the number of fish and counting technology or counting method used for calculating the number o | | ndicator: Maximum number of escapees [138] in the | Verify that there were fewer than 300 escapees from the smolt production facility in the | | | | |
| fish escaped), the farm may request a rare exception to the Standard [139], Requests must provide a full account of the epitode and must document whe smolt producer could not have predicted the events that caused the escape episode. [138] Farms shall report all escapes; the total aggregated number of escapees per production cycle must be less than 300 fish. [139] A rare exception to this standard may be made for an escape event that is clearly documented as being outside of the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there was no reasonable way to predict the events that caused the episode. Extreme weather (e.g., 100-year storms) or accidents caused by farms located near high-traffic waterways are not intended to be covered under this exception. 8.7 Requirement: 298% Applicability: All Smolt Producers 8. Review records to excipt that accuracy of the smolt supplier's counting technology or counting method is 298%. Compliant 98-10 Counting performed at FW site, vaccination numbers used for stocking number at sea net accepts must include copies of spec sheets for counting method is 298%. Compliant 98-10 Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose o | A | Applicability: All Smolt Producers except as noted in | maintained for at least 10 years beginning with the production cycle for which the farm is first applying for certification (necessary for farms to be eligible to apply for the exception | 01-26 regarding compliance to criteria 8.2 a, 8.5 a, 8.6 c, 8.12 c, 8.13 b, 8.14 a, 8.15 c, | Compliant | | 0 |
| [139] A rare exception to this standard may be made for an escape event that is clearly documented as being outside of the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there was no reasonable way to predict the events that caused the episode. Extreme weather (e.g., 100-year storms) or accidents caused by farms located near high-traffic waterways are not intended to be covered under this exception. a. Obtain records showing the accuracy of the counting technology or counting method used for calculating the number of fish Requirement: 298% Applicability: All Smolt Producers B. Review records to verify that accuracy of the smolt supplier's counting technology or counting method is 2 98%. Compliant Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for | | | fish escaped), the farm may request a rare exception to the Standard [139]. Requests must provide a full account of the episode and must document how the smolt producer could | | | | |
| [139] A rare exception to this standard may be made for an escape event that is clearly documented as being outside of the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there was no reasonable way to predict the events that caused the episode. Extreme weather (e.g., 100-year storms) or accidents caused by farms located near high-traffic waterways are not intended to be covered under this exception. a. Obtain records showing the accuracy of the counting technology or counting method used for calculating the number of fish Requirement: 298% Applicability: All Smolt Producers B. Review records to verify that accuracy of the smolt supplier's counting technology or counting method is 2 98%. Compliant Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for stocking number at sea net cape. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Counting performed at FW site, vaccination numbers used for | Footnote | | [138] Farms shall report all escapes; the total aggregated number | of escapees per production cycle must be less than 300 fish. | | | |
| Indicator. Accuracy (140) of the counting technology or accords must include copies of spec sheets for counting machines and common estimates and common estimates are cage. Requirement: 298% Applicability: All Smolt Producers B. Review records to verify that accuracy of the smolt supplier's counting technology or counting method is 2-98%. Footnote [140] Accuracy shall be determined by the spec sheet for counting technology or counting performed at FW site, vaccination numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Compliant Ounting performed at FW site, vaccination numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Compliant Ounting performed at FW site, vaccination numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Compliant Ounting performed at FW site, vaccination numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Compliant Ounting performed at FW site, vaccination numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Compliant Ounting performed at FW site, vaccination numbers used for stocking numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Compliant Ounting performed at FW site, vaccination numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Compliant Ounting performed at FW site, vaccination numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). | Footnote | | or an escape event that is clearly documented as being outside of the farm's control. Only or fification. The farmer must demonstrate that there was no reasonable way to predict the eve | ne such exceptional episode is allowed in a 10-year period for the purposes of this standard. I nts that caused the episode. Extreme weather (e.g., 100-year storms) or accidents caused by | | | |
| Applicability: All Smolt Producers B. Review records to verify that accuracy of the smolt supplier's counting technology or counting performed at FW site, vaccination numbers used for stocking number at sea net cage. Internal counters FW sites counts at vaccination (count fish by dose of vaccine). Footnote [140] Accuracy shall be determined by the spec sheet for counting machines and through common estimates of error for any hand counts. Stondards related to Principle 4 Auditor Evaluation (Required CAB Actions): Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from Delivered to H45 in 2017; 2550 liter infectious waste mixed plastic 382 from metal 1.6 for no | 0.7 | ndicator : Accuracy [140] of the counting technology or counting method used for calculating the number of fish | Records must include copies of spec sheets for counting machines and common estimates | cage. | Compliant | | 98-100% |
| Standards related to Principle 4 Compliance Criteria (Required Client Actions): Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from Delivered to HAE in 2017: 2-5-0 liter infectious waste mixed plactic 382 ton metal 1 6 ton | R | Applicability: All Smolt Producers | | cage. | | | |
| Compliance Criteria (Required Client Actions): Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from Delivered to HAE in 2017: 2,550 liter infectious waste mixed plastic 382 from metal 1.6 from | Footnote | | | | | | |
| and responsible treatment of non-biological waste from | T | | | | | | |
| production (e.g., disposal and recycling) 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. Delivered to NAP in ALLY, ZNOI liter interctious waste, mixed plastic 3,82 ton, metal 1,6 ton, rest waster in ALLY, ZNOI liter interctious waste, mixed plastic 3,82 ton, metal 1,6 ton, rest waster in ALLY, ZNOI liter interctious waster, mixed plastic 3,82 ton, metal 1,6 ton, rest waster in ALLY, ZNOI liter interctious waster, mixed plastic 3,82 ton, metal 1,6 ton, rest waster in ALLY, ZNOI liter interctious waster, mixed plastic 3,82 ton, metal 1,6 ton, rest waster in ALLY, ZNOI liter interctious waster, mixed plastic 3,82 ton, metal 1,6 ton, rest waster in ALLY, ZNOI liter interctious waster, mixed plastic 3,82 ton, metal 1,6 ton, rest waster in ALLY, ZNOI liter interctious waster, mixed plastic 3,82 ton, metal 1,6 ton, rest waster in ALLY, ZNOI liter interctious waster, mixed plastic 3,82 ton, metal 1,6 ton, rest waster in ALLY, ZNOI liter in ALLY | 8.8 | and responsible treatment of non-biological waste from production (e.g., disposal and recycling) | proper and responsible treatment of non-biological waste from production. It must explain | Delivered 52 000 liter ensilage to ScanBio in 2017, e.g. Scanbio RP-9123, 11000 liter | Compliant | | |
| Applicability: All Smolt Producers | A | Applicability: All Smolt Producers | | | | | |
| Note: see instructions for Indicator 4.6.1. | | | Note: see instructions for Indicator 4.6.1. | | | | |
| a Obtain records from the malt runding for a series assumption in contract of first | | | a. Obtain records from the smolt supplier for energy consumption by source (fuel, electricity) at the supplier's facility throughout each year. | Records OK | | | |
| electricity) at the supplier's facility throughout each year. | p gr | verifying the energy consumption at the smolt production facility (see Appendix V subsection 1 for guidance and required components of the records and | b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year. | Total 2017 Energy scope 2: 46 179 986 400 kJ (diesel) Energy scope 2: 46 179 986 400 kJ (electricity) SUM 46 265 490 800 kJ | | | |
| Indicator: Presence of an energy-use assessment verifying the energy consumption at the smolt supplier calculates total energy consumption in kilojoules (kj) production facility (see Appendix V subsection 1 for guidance and required components of the records and assessment) | 8.9 R | Requirement: Yes, measured in kilojoule/mt ish/production cycle | c. Obtain records to show the smolt supplier calculated the total weight of fish in metric tons (mt) produced during the last year. | Total 2017 Produced biomass: 1 636 931 kg | Compliant | | 28 263 556 kJ/ton biomass |



| | ı | | | | l | , , |
|----------|---|---|--|--------------------------------------|---|-------------|
| | Applicability: All Smolt Producers | d. Confirm that the smolt supplier used results from 8.9b and 8.9c to calculate energy consumption on the supplier's facility as required and that the units are reported as kilojoule/mt fish/production cycle. | Total 2017 Energy efficiency: 28 263 556 kJ/ton biomass | | | |
| | | Obtain evidence to show that smolt supplier has undergone an energy use assessment in compliance with requirements of Appendix V-1. Can take the form of a declaration detailing a-e. | Records OK | | | |
| | | Note: see instructions for Indicator 4.6.2. | | | | |
| 8.10 | | Obtain records of greenhouse gas emissions from the smolt supplier's facility. | Records OK | | | |
| | Indicator: Records of greenhouse gas (GHG [141]) emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V, subsection 1) Requirement: Yes | 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. | Total 2017 Produced biomass: 1 636 931 kg CO2 scope 1: 6 463 kg (from diesel) CO2 scope 2: 205 244 g/from electricity) CO2 total: 21170 kg | Compliant | | |
| | | 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. | Total 2017 Produced biomass: 651 689 kg CO2 scope 1: 6 463 kg (from diesel) CO2 scope 2: 205 244 kg (from electricity) CO2 total: 211 707 kg | | | 211 707 kg |
| | Applicability: All Smolt Producers | d. For GHG calculations involving conversion of non-CO2 gases to CO2 equivalents, confirm that the smolt suppliers specify the Global Warming Potential (GWP) used and its source. | CO2 used | | | |
| | | e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually. | Conversion factors Scope 1: 3,17 kg Co2 per kg diesel (The Norwegian emission inventory 2009 SSB, tetthet 0,84 kg/liter (SSB 2008), 36,2 MJ/liter SSB 2008 Scope 2: 0,016 kg Co2 per kWh (NVE 2013), 1kWh equals 3,6 MJ SSB 2008. | | | |
| Footnote | [141] For the purposes of this sta | and ard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO_2) ; | methane (CH ₄); nitrous oxide (N2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and | sulphur hexafl | uoride (SF ₆). | |
| Footnote | | [142] GHG emissions must be recorded using recognized me Standards related to Prin | | | | |
| | | Standards related to Prin 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 | Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish disease and parasites. | Health plan for Sundsfjord Smolt and Helgeland Smolt signed Janette Festvåg 2018-01-31. Includes health control, veterinary visits, diseases, preventive measures, disease measures, vaccine, parasites, screening, water quality, destruction, welfare, density, starvation, training, medicines, sedations, notification, etc. Appendix: list of diagnosis, list of treatments, notifiable diseases (list 1, 2 and 3). | 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. | Health plan for Sundsfjord Smolt and Heigeland Smolt signed Janette Festvåg 2018-01-31. | | | |
| | 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 | Maintain a list of diseases that are known to present a significant risk in the region, developed by farm veterinarian and supported by scientific evidence. | Health plan for Sundsfjord Smolt and Helgeland Smolt signed Janette Festvåg 2018-01-31. Includes health control, veterinary visits, diseases, preventive measures, disease measures, vaccine, parasites, screening, water quality, destruction, welfare, density, starvation, training, medicines, sedations, notification, etc. Appendix: list of diagnosis, list of treatments, notifiable diseases (list 1, 2 and 3). | | | |
| | | b. Maintain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence. | Health plan for Sundsfjord Smolt and Helgeland Smolt signed Janette Festvåg 2018-01-31. Includes health control, veterinary visits, diseases, preventive measures, disease measures, vaccine, parasites, screening, water quality, destruction, welfare, density, starvation, training, medicines, sedations, notification, etc. Appendix: list of diagnosis, list of treatments, notifiable diseases (list 1, 2 and 3). | Compliant | | |
| 8.12 | | c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received. | Seen health declarations, e.g.: 2017-06-02 fish from Heigeland Smolt F1-4 to Rensøya N. AquaGen broodstock, Pentium Forter waccine, 200 000 fish à 200 gram, 12 health control part year, no restriction, no suspected infectious diseases, last health control 2017-06-02. 2017-05-18 fish from Heigeland Smolt F2-6 to Stokkasjøen, AquaGen broodstock, Pentium Forter vaccine, 190 000 fish à 270 gram, 12 health controls per year, no restriction, no suspected infectious diseases, last health control 2017-05-15. 2017-07-05 fish from Heigeland Smolt D2-1 to Renga, AquaGen broodstock, Pentium Forter vaccine, 198 000 fish à 150 gram, 12 health controls per year, no restriction, no suspected infectious diseases, last health control 2017-07-06. 2017-07-05 fish from Heigeland Smolt D1-1 to Bukkeya, AquaGen broodstock, Pentium Forter vaccine, 1980 000 fish à 150 gram, 12 health controls per year, no restriction, no suspected infectious diseases, last health control 2017-07-05. | | | 100% |
| | | d. Demonstrate, using the lists from 8.12a-c above, that all salmon on the farm received vaccination against all selected diseases known to present a significant risk in the regions for which an effective vaccine exists. | 100% vaccinated according to national legislation. | | | |
| Footnote | [143] The farm's designated veterinarian is responsible | e for undertaking and providing written documentation of the analysis of the diseases that p auditor that this decision is co | ose a risk in the region and the vaccines that are effective. The veterinarian shall determine we nsistent with the analysis. | hich vaccinatio | ns to use and demonstrat | te to the |
| 8.13 | Indicator: Percentage of smolt groups [144] tested for select diseases of regional concern prior to entering the grow-out phase on form Requirement: 100% Applicability: All Smolt Producers | The farm is responsible for developing and maintaining a list of diseases of regional concern to occur in sea. The designated veterinarian to the smolt supplier is required to evaluate, based on scien disease or a pathogen carrier state in fresh water is deemed to have a negative impact. | to Clients for Indicator 8.13—Testing of Smolt for Select Diseases for which each smolt group should be tested. The list of diseases shall include diseases that c water (and for which seawater fish-crish transmission is a concern). tific criteria and publicly available information, which diseases should be tested for. This analy on the grow-out phase, thereby disqualifying a smolt group from being transferred. The analy e risk, including environment, husbandry, and host factors that might contribute to sharing dis | sis shall include sis must be ava | e an evaluation of whethe silable to the CAB upon re | er clinical |
| | | a. Obtain from the smolt supplier a list of diseases of regional concern for which smolt should be tested. List shall be supported by scientific analysis as described in the instruction above. | Health plan for Sundsfjord Smolt and Helgeland Smolt signed Janette Festvåg 2018-01-31. Includes health control, veterinary visits, diseases, preventive measures, disease measures, vaccine, parasites, cerening, water quality, destruction, welfare, density, starvation, training, medicines, sedations, notification, etc. Appendix: list of diagnosis, list of treatments, notifiable diseases (list 1, 2 and 3). | | | |
| | | b. Obtain from the smolt supplier(s) a declaration and records confirming that each smolt group received by the farm has been tested for the diseases in the list (8.13a). | Seen health declarations, e.g.: 2017-06-02 fish from Helgeland Smolt F1-4 to Rensøya N, AquaGen broodstock, Pentium Fortev vaccine, 200 000 fish à 200 gram, 12 health controls per year, no restriction, no suspected infectious diseases, last health control 2017-06-62. 2017-05-18 fish from Helgeland Smolt F2-6 to Stokkasjøen, AquaGen broodstock, Pentium Fortev vaccine, 13000 offsh à 270 gram, 12 health controls per year, no restriction, no suspected infectious diseases, last health control 2017-05-15. 2017-07-05 fish from Helgeland Smolt D2-1 to Renga, AquaGen broodstock, Pentium Fortev vaccine, 198 000 fish à 150 gram, 12 health controls per year, no restriction, no suspected infectious diseases, last health control 2017-07-05. 2017-07-05 fish from Helgeland Smolt D1-1 to Bukkøya, AquaGen broodstock, Pentium Fortev vaccine, 198 000 fish à 150 gram, 12 health controls per year, no restriction, no suspected infectious diseases, last health control 2017-07-05. | | | 100% |



| Applicability: All Smolt Producers All Communications, agreements and resolution of complaints. Applicability: All Smolt Producers Appl | Footnote | transmission is a concern) but originating in freshwater s | should be on the list of diseases tested. The designated veterinarian to the smolt farm is requ | ng disease agents for each group. Only diseases that are proven, or suspected, as occurring in ired to evaluate, based on scientific criteria and publicly available information, which disease hase, thereby disqualifying a smolt group from being transferred. A written analysis must be | s should be test | ed for. This analysis shall include |
|---|----------|---|--|--|------------------|---|
| Reference of the content of the cont | 8.14 | designated veterinarian, of all chemicals and therapeutants used during the smoth 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 | 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; - int of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and | E.g. unit F1-4 delivered 2017-06-02, vaccinated 2017-02-01 with Pentium Forte + (batch | Compliant | |
| Service Servic | | that include antibiotics or chemicals that are banned | and chemicals, that are proactively banned for use in food fish for the primary salmon | Seen list of approved treatments "Godkjente legemidler Nova Sea", includes product, active | | |
| Common C | 8.15 | importing countries [146] Requirement: Yes | | 01-26 regarding compliance to criteria 8.2 a, 8.5 a, 8.6 c, 8.12 c, 8.13 b, 8.14 a, 8.15 c, | Compliant | 0 |
| Part | | Application Year Smoot Producers | that no therapeutants appearing on the list (8.15a) were used on the smolt purchased by | No banned treatments used. | | |
| Author Technical Confession (Confession Confession Conf | | | | | | |
| Part | 9.16 | most recent production cycle | | | Compliant | 0 |
| A product of the control of the cont | | • | | No antibiotics used. Seen CV with treatments identified. | | |
| Application American Processing Proc | | | | Seen list of not approved treatments "Liste ikke godkjente legemidler" 2018-01-31. Seen list of approved treatments "Godkjente legemidler Nova Sea", includes product, active | | |
| Exception Exce | | Requirement: None [148] | | 01-26 regarding compliance to criteria 8.2 a, 8.5 a, 8.6 c, 8.12 c, 8.13 b, 8.14 a, 8.15 c, | Compliant | |
| Motion Control of conglistical [18] of the confidence incontrol of the process of the mode of the confidence of the confidence of conglistical [28] of the conglistical [28] of the confidence of conglistical [28] of the conglistical [28] of the confidence of conglistical [28] of the congli | | | (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. | | | |
| Note: see instructions for indicators \$1.3 regarding collection of complained (349) with the CE August Annual result Code (350) and August Annual Hardin Code (350) and August | | [147 | | | | |
| modelater: Evalence of complature [189] with the CRI part of the sends tappler and a comment version of the CRI Apparts Assemble (and the CRI Apparts Assemb | | | | | | |
| ## Software Programment Type ## Agriculture Ty | | | | Link to OIE list in quality system | | |
| Forming Indicates Configured Clark Actions In the Indicates Configured Clark Actions In the Indicates Configured Clark Actions In Engineering Clark In Engineering Clark Actions In Engineerin | | Requirement: Yes | policies and procedures that ensure that its smolt production practices are compliant with | 01-26 regarding compliance to criteria 8.2 a, 8.5 a, 8.6 c, 8.12 c, 8.13 b, 8.14 a, 8.15 c, | Compliant | |
| Infected site and implementation of quarantine zones in accordance with guidelines from 0.5 for the appelling particular for the procedure of the pathogen). | | | and copies of the smolt suppliers policies and procedures that are relevant to demonstrate | Link to OIE list in quality system | | |
| Southwish reliable to Providers of company-level policies and procedures in line with the labor standards under 6 a.1 of 6.1 o | Footnote | | | | | |
| ## Applicability: All Smolt Producers ### App | Footnote | | | | | |
| Requirement: vis places and procedure are in compliance with the requirements of bloods and procedure are in compliance with the requirements of bloods standards under the standards related to Principle? Standards related to Principle? Auditor Foundation (Producers Auditor Found | | procedures in line with the labor standards under 6.1 to | a. Obtain copies of smolt supplier's company-level policies and procedures and a | The access to electronic document system of the smolt supplier. The procedures address | | |
| Compliance Criteria (Required Clark Actions): Auditor Evaluation (Required Clark Actions): Instruction Community Representatives and organizations. | | • | policies and procedures are in compliance with the requirements of labor standards under 6.1 to 6.11 . | labour laws is available (signed on 2018-01-26). | Compliant | |
| Farms must comply with indicator 7.21, which requires that farms engage in regular consultation and engagement with community representatives and organizations. Under indicator 8.20, farms must show how each of the suppliers consultation and engagement with community representatives and organizations. 8.20 8.20 8.20 8.20 8.20 8.21 8.21 8.22 8.23 8.24 8.24 8.24 8.24 8.24 8.25 8.24 8.25 8.24 8.25 8.26 8.25 8.26 8.26 8.26 8.26 8.26 8.27 8.26 8.27 8.26 8.27 8.29 8.20 8. | | | Standards related to Prin Compliance Criteria (Required Client Actions): | | | |
| 8.20 Requirement: Yes Applicability: All Smolt Producers Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All Smolt Producers Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Requir | | engagement with community representatives and | Farms must comply with Indicator 7.1.1 which requires that farms engage in regular consuppliers complies with an equivalent requirement. Farms are obligated to maintain eviden - the smolt supplier engaged in " - the supplier's consultations were | sultation and engagement with community representatives and organizations. Under Indicate ce that is sufficient to show their suppliers remain in full compliance. Evidence shall be docur equal "cull substantiate the following: [egular" consultations with the local community at least twice every year (b-annually); [fective (e.g. using participatory Social Impact Assessment (pSIA) or similar methods); and | nentary (e.g. me | |
| b. Review documentation from 8.20a to verify that the smolt supplier's consultations and community engagement compiled with requirements. 8.21 Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community and preventive and preventive and preventive and preventive and preventive actions. Requirement: Yes Applicability: All Smolt Producers a. Obtain a copy of the smolt supplier's policy for presentation, treatment and resolution of complaints by community stakeholders and organizations. Brequirement: Yes Applicability: All Smolt Producers a. Obtain a copy of the smolt supplier's policy for presentation, treatment and resolution of complaints by community stakeholders and organizations. Applicability: All Smolt Producers a. Obtain a copy of the smolt supplier does or does not operate in an indigenous territory (to include farms that operate in proximity to indigenous or abriginal people (see Indicator 7.2.1). If not then the requirements of 8.22 do not apply. 8.22 Requirement: Yes b. Obtain documentariation to demonstrate that, as required by law in the jurisdiction: smolt supplier consulted with indigenous groups and retains documentary evidence (e.g., meeting proximity to indigenous groups and retains documentary evidence (e.g., meeting proximity to indigenous groups and retains documentary evidence (e.g., meeting proximity to the previous groups and retains documentary evidence (e.g., meeting proximity to indigenous groups and retains documentary evidence (e.g., meeting proximity to the previous groups and retains documentary evidence (e.g., meeting proximity to the previous groups and retains documentary evidence (e.g., meeting proximity to the previous groups and retains documentary evidence (e.g., meeting proximity to the previous groups and retains documentary evidence (e.g., meeting proximity to the previous groups and retains documentary evidence (e.g., meeting proximity to the previous groups and retains documentary evidence (e.g., meeting proximi | | • | | | | management. |
| treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All Smolt Producers a. Obtain a copy of the smolt supplier's policy for presentation, treatment and resolution of complaints. Bequirement: Yes Applicability: All Smolt Producers and indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Bequirement: Yes Bequirement: Yes Bequirement: Yes D. Obtain documentary evidence showing that the smolt supplier does or does not operate in proximity to indigenous or aboriginal people (see indicator 7.2.1). If not then the requirements of 8.22 do not apply, and limitations were solved in the period for obtaining operation license. Smolt site is operating in are of rain deer feeding areas. All communications, agreements and limitations were solved in the period for obtaining operation license. Compliant Compliant Smolt site is operating in are of rain deer feeding areas. All communications, agreements and limitations were solved in the period for obtaining operation license. Compliant Compliant Compliant Compliant Compliant Compliant | | | b. Review documentation from 8.20a to verify that the smolt supplier's consultations and Only invitation and agenda available. | | Minor | Darius Pamakstys 11.03.2018: Root cause, corrective and preventive actions |
| Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations 8.22 Requirement: Yes D. 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 in are of rain oper reeoing areas. All communications, agreements and limitations were solved in the period for obtaining operation license. Compliant Smolt site is operating in are of rain oper reeoing areas. All communications, agreements and limitations were solved in the period for obtaining operation license. Compliant Smolt site is operating in are of rain oper reeoing areas. All communications, agreements and limitations were solved in the period for obtaining operation license. Compliant Smolt site is operating in are of rain oper reeoing areas. All communications, agreements and limitations were solved in the period for obtaining operation license. | 8.21 | treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes | | The procedure of handling of non-conformances is applied for handling complaints. | Compliant | |
| Requirement: Yes 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 norroses complies with 7.2 th; OR smolt sunplier consultations. Smolt site is operating in are of rain deer feeding areas. All communications, agreements minutes summaries to show how the norroses complies with 7.2 th; OR smolt sunplies. | | groups were consulted as required by relevant local | in an indigenous territory (to include farms that operate in proximity to indigenous or | | | |
| Applicability: All Smolt Producers Confirms that government-to-government consultation occurred and obtains documentary evidence. | | Requirement: Yes Applicability: All Smolt Producers | 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 | | Compliant | |



No meetings organized See NC in 8.20 Darius Pamakstys 11.03.2018: Root cause corrective and preventive actions Accepted dicator: Where relevant, evidence that the farm has ndertaken proactive consultation with indigenous ommunities . See results of 8.22a (above) to determine whether the requirements of 8.23 apply to the Smolt site is operating in are of rain deer feeding areas. All communications, agreements and limitations were solved in the period for obtaining operation license. Where relevant, obtain documentary evidence that smolt suppliers undertake proactive The invitation was sent to Sami representatives. No consultation meetings organized. NC evidence: No meetings organized. See NC in 8.20 onsultations with indigenous communities Applicability: All Smolt Producers ADDITIONAL REQUIREMENTS FOR OPEN (NET-PEN) PRODUCTION OF SMOLT In addition to the requirements above, if the smolt is produced in an open system, evidence shall be provide Instruction to Clients for Indicators 8.24 through 8.31 - Requirements for Smolt Produced in Open Systems

Client shall provide documentary evidence to the CAB about the production system(s) from which they source smolt. If smolt used by the farm are produced, for part or all of the growth phase from alevin to smolt, in open (net-pen) systems, indicators 8.24 - 8.31 are applicable. . Obtain a declaration from the farm's smolt supplier stating whether the supplier perates in water bodies with native salmonids. No net-pens, tanks only. ndicator: Allowance for producing or holding smolt in et pens in water bodies with native salmonids . Request smolt suppliers to identify all water bodies in which they operate net pens for roducing smolt and from which facilities they sell to the client. No net-pens, tanks only. 8.24 N/A net-pens, tanks only Requirement: None c. For any water body identified in 8.24b as a source of smolt for the farm, determine if native salmonids are present by doing a literature search or by consulting with a reputable authority. Retain evidence of search results. Applicability: All Smolt Producers Using Open Systems No net-pens, tanks only **ndicator**: Allowance for producing or holding smolt in net pens in any water body a. Take steps to ensure that the farm does not source smolt that was produced or held in net pens. equirement: Yes Applicability: All Smolt Producers Using Open Systems a. For the water body(s) where the supplier produces smolt for the client (see 8.24b),
 obtain a copy of the most recent assessment of assimilative capacity. Indicator: Evidence that carrying capacity (assimilative capacity) of the freshwater body has been established by a reliable entity [151] within the past five years [152] and total biomass in the water body is within the limits established by that study (see Appendix VIII-5 for minimum requirements) b. Identify which entity was responsible for conducting the assessment (8.26a) and obtain evidence for their reliability. No net-pens, tanks only. :. Review the assessment (8.26a) to confirm that it establishes a carrying capacity for the water body, it is less than five years old, and it meets the minimum requirements presented in Appendix VIII-5. No not-none tanks only Review information to confirm that the total biomass in the water body is within the limits established in the assessment (8.26a). No net-pens, tanks only. Applicability: All Smolt Producers Using Open Systems e. If the study in 8.26a is more than two years old and there has been a significant increase
in nutrient input to the water body since completion, request evidence that an updated
assessment study has been done. [151] E.g., Government body or academic institution. Footnote [152] If the study is older than two years, and there has been a significant increase in nutrient input to the water body since the completion of the study, a more recent assessment is required. Instruction to Clients for Indicator 8.27 and 8.28 - Monitoring TP and DO in Receiving Water for Open Smolt Systems
Farms must confirm that any smolt supplier using an open (net-pen) system is also engaged in monitoring of water quality of receiving waters. Requirements for the supplier's water quality monitoring program are presented in detail in
Appendix VIII-6 and only re-stated briefly here. Monitoring shall sample through the water column to a
depth of the bottom of the cages. Samples are submitted to an accredited laboratory for analysis of TP to a method detection limit of < 0.002 mg/L DO measurements will be taken at 50 centimeters from the bottom sediment. The required sampling regime is as follows:

- all stations are identified with GPS coordinates on a map of the farm and/or available satellite imagery;
- stations are at the limit of the farm management zone on each side of the farm, roughly 50 meters from the edge of endosures;
- the spatial arrangement of stations is shown in the table in Appendix VIII-6;
- sampling is done at least quarterly (IX per 3 months) during periods vinbutor ice, including peak biomass; and
- samples are also collected at two reference stations located "-12 km upcurrent and downcurrent from the farm. ndicator: Maximum baseline total phosphorus oncentration of the water body (see Appendix VIII-6) Note: Some flexibility on the exact location and method of sampling is allowed to avoid smolt suppliers needing to duplicate similar sampling for their local regulatory regimes. 8.27 equirement: ≤ 20 μg/l [153] a. Obtain documentary evidence to show that smolt suppliers conducted water quality monitoring in compliance with the requirements of Appendix VIII-6. Applicability: All Smolt Producers Using Open Systems No net-pens, tanks only. o. Obtain from smolt suppliers a map with GPS coordinates showing the sampling locations. No net-pens, tanks only. Obtain from smolt suppliers the TP monitoring results for the past 12 months and calculate the average value at each sampling station. d. Compare results to the baseline \mbox{TP} concentration established below (see 8.29) or determined by a regulatory body. No net-pens, tanks only. e. Confirm that the average value for TP over the last $12\,$ months did not exceed $20\,$ ug/l at any of the sampling stations nor at the reference station. No net-pens, tanks only. [153] This concentration is equivalent to the upper limit of the M Note: see instructions for Indicator 8.27. . Obtain evidence that smolt supplier conducted water quality monitoring in compliance ith the requirements (see 8.27a). 0 centimeters above bottom sediment (at all oxygen nonitoring locations described in Appendix VIII-6) Obtain from smolt suppliers the DO monitoring results from all monitoring stations for the past 12 months. No net-pens, tanks only. N/A lo net-pens, tanks only Applicability: All Smolt Producers Using Open Systems . Review results (8.28b) to confirm that no values were below the minimum percent No net-nens tanks only Obtain documentary evidence from the supplier stating the trophic status of water body f previously set by a regulator body (if applicable). No net-pens, tanks only. . If the trophic status of the waterbody has not been classified (see 8.29a), obtain evider rom the supplier to show how the supplier determined trophic status based on the oncentration of TP. dicator: Trophic status classification of water body mains unchanged from baseline (see Appendix VIII-7) No net-pens, tanks only. 8.29 Requirement: Yes . As applicable, review results from 8.29b to verify that the supplier accurately assigned a rophic status to the water body in accordance with the table in Appendix VIII-7 and the observed concentration of TP over the past 12 months. Applicability: All Smolt Producers Using Open Systems No net-pens, tanks only. d. Compare the above results (8.29c) to trophic status of the water body as reported for all previous time periods. Verify that there has been no change. No net-pens, tanks only . Determine the baseline value for $\overline{\text{TP}}$ concentration in the water body using results from ither 8.29a or 8.29b as applicable. No net-pens, tanks only. ndicator: Maximum allowed increase in total phosphorus concentration in lake from baseline (see Appendix VIII-7) b. Compare the baseline TP concentration (result from 8.30a) to the average observed TP concentration over the past 12 months (result from 8.27e). 8.30 N/A lo net-pens, tanks only No net-pens, tanks only. pplicability: All Smolt Producers Using Open Systems c. Verify that the average observed TP concentration did not increase by more than 25% from baseline TP concentration. No net-pens, tanks only.



| 8.31 | a. Obtain a declaration from the farm's smolt supplier stating that the supplier does not use aeration systems or other technological means to increase oxygen levels in the water bodies where the supplier operates. | No net-pens, tanks only. | N/A | No net-pens, tanks only. | |
|------|--|--------------------------|-----|--------------------------|--|

ADDITIONAL REQUIREMENTS FOR SEMI-CLOSED AND CLOSED PRODUCTION OF SMOLTS

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

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

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

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

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

| | exemptions in the audit report. | | | | | | | | |
|----------|--|---|---|------------|---------------------------------------|--|--|--|--|
| Footnote | | [154] Production systems that don't discharge into | fresh water are exempt from these standards. | | | | | | |
| | Indicator: Water quality monitoring matrix completed and submitted to ASC (see Appendix VIII-2) | Obtain records from smolt suppliers showing that water quality monitoring was conducted at least quarterly (i.e. once every 3 months) over the last 12 months. | No discharge to freshwater | | | | | | |
| | Requirement: Yes [155] | b. Obtain water quality monitoring matrix from smolt suppliers and review for completeness. | No discharge to freshwater | N/A | No discharge to freshwater | | | | |
| | Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems | c. Submit the smolt supplier's water quality monitoring matrix to ASC as per Appendix VIII-2 and Appendix VI at least once per year. | No discharge to freshwater | | | | | | |
| Footnote | | [155] See Appendix VI for transpa | rency requirements for 8.32. | | | | | | |
| | Indicator: Minimum oxygen saturation in the outflow | a. Obtain the water quality monitoring matrix from each smolt supplier (see 8.32b). | No discharge to freshwater | | | | | | |
| 8.33 | (methodology in Appendix VIII-2) Requirement: 60% [156,157] | b. Review the results (8.33a) for percentage dissolved oxygen saturation in the effluent to confirm that no measurements fell below 60% saturation. | No discharge to freshwater | N/A | No discharge to freshwater | | | | |
| | Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems | c. If a single DO reading (as reported in 8.33a) fell below 60%, obtain evidence that the smolt supplier performed daily continuous monitoring with an electronic probe and recorder for a least a week demonstrating a minimum 60% saturation at all times (Appendix VIII-2). | No discharge to freshwater | | i canada | | | | |
| Footnote | [156] A single o | exygen reading below 60 percent would require daily continuous monitoring with an electron | nic probe and recorder for at least a week demonstrating a minimum 60 percent saturation at | all times. | · · · · · · · · · · · · · · · · · · · | | | | |
| Footnote | | [157] See Appendix VI for transpa | erency 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 | a. Obtain documentation from smolt supplier(s) showing the results of macro-invertebrate surveys. | No discharge to freshwater | | | | | | |
| 8.34 | from the discharge (methodology in Appendix VIII-3) Requirement: Yes | b. Review supplier documents (8.34a) to confirm that the surveys followed the prescribed methodology (Appendix VIII-3). | No discharge to freshwater | | No discharge to freshwater | | | | |
| | Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems | c. Review supplier documents (8.34a) to confirm the survey results show that benthic health is similar to or better than upstream of the supplier's discharge. | No discharge to freshwater | | | | | | |
| | Indicator: Evidence of implementation of biosolids | a. Maintain a copy of smolt supplier's biosolids (sludge) management plan and confirm that the plan addresses all requirements in Appendix VIII-2. | No discharge to freshwater | | | | | | |
| 8.35 | (sludge) Best Management Practices (BMPs) (Appendix VIII-4) | b. Obtain from smolt suppliers a process flow diagram (detailed in Appendix VIII-2) showing how the farm is dealing with biosolids responsibly. | No discharge to freshwater | | No discharge to | | | | |
| | Requirement: Yes Applicability: All Smolt Producers Using Semi-Closed or | c. Obtain a declaration from smolt supplier stating that no biosolids were discharged into natural water bodies in the past 12 months. | No discharge to freshwater | | freshwater | | | | |
| | Closed Production Systems | d. Obtain records from smolt suppliers showing monitoring of biosolid (sludge) cleaning maintenance, and disposal as described in Appendix VIII-2. | No discharge to freshwater | | | | | | |



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

lags
11.1 DO NOT DELITE ANY COLUMN
11.2 Columns (R/C/I)E (in black) are automatically populated from the species checkist/audit manual
11.3 Cato Nic in sind 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, dosure deadline, etc.)

| NC reference | Indicator | Grade of NC | Description of NC | Evidence | Date of detection | | Related VR (#) | Root cause (by client) | Corrective/ preventive actions implemented | Deadline for NC close-out | Evaluation by CAB (including evidence) | Date request for delay received | Justification for delay | Next deadline | Request evaluation by CAB | Date request approved |
|-----------------|-----------|-------------|---|--|-------------------|-------------------|----------------|--|--|------------------------------|--|---------------------------------------|-------------------------|------------------|------------------------------|-----------------------|
| IA-2018-1 | | Minor | | AGC purvey by Aquadiompetanes October 2017 (field work 0.1.1.2017), report 279-11 176 RONGA | | pted | | from previous production cycle for certification. Since the elections to certify our conductions (Stakisagine and Service), Marking Reine (Schiyh)(a) seat state after the conductions (Stakisagine) (Schiyh) (S | All testing will be done so that epopler are finished by the end of ASSI/Start of the Continuous layer temperage of ASC confiration to that environmental testing can be carried out at top blomass at the end of the previous generation, internal section no. A7244. All 5 farms are scheduled to have ASC MOMO C tests under may production. The tests are already order from Apus Exorporation environmental testing company) and will take place at the following tensor: Emerging Lump 2018; 100 company and will take place at the following tensor: Emerging Lump 2018; 100 company and will take place at the following tensor: Emerging Lump 2018; 100 company and will take place at the following tensor: Emerging Lump 2018; 100 company and will take place at the following tensor through the most of 2018/Jacca of 2018 the companies with DMV/GLS follow up ASC confilication of these 5 farms. 100 continuous layer tensor place of ASC confilication on both environmental testing and scale and the scale of the previous generation. Internal deviation no. A7744. | | Jan Petter Kosme 1303 2018: Roc cause, corrective and prevenive actions Accepted | | | | | |
| IA-2018-2 | | | MOMAC not performed at peak biomass (at 275% peak biomass) last production cycle. | ACC curve by Aquasicompetance October 2017 (field work 01.11.2017), report 279-11 17C RENGA | 09.02.2018 | pted | | from previous production cycle for certification. Since the decisions to certify our locations (Edishages) memory, Balble, Regine (gath/high) was taken after the end of the sixt production cycles that was impossible to doe. Also, Rahhylla is after the end of the sixt production cycles that was impossible to doe. Also, Rahhylla is 14th end of the sixt production of the sixt and the sixt and the end of 2017 but resulted in ono-compilization as one of the forms had achieved top becomes it the time of the sixty of the sixty of the sixty of the sixty of the sixty of the sixty of the sixty of the sixty of the sixty of the will allow for proper planning a ASCE MOM C test taking so that the tests can be done under may production. | company) and will take place at the following times: Renning up Luma 2018, (Chatakagen and Enthylo (Jugust 2018), Renny and Makeya (Niverenber 2018). All testing will be done as that reports are finished by the end of 2018/25 and for 100 company of the control of the control of 2018/25 and for Control Lung times (Park Control of 2018). The control of 2018/25 and be carried out at 100 biomass at the end of the previous generation. Internal deviation no. A2744. | | Jan Petter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted | | | | | |
| IA-2018-3 | | | not seen written justification. | onygen and temperature at 2 sampling stations (3 and 6 meters depth inside cage). | | Open/Acce pted | | measured OX acur farms weetly a it is important information for us for the weekler of our allimate previously finish a given level or Oxida similar weekler of our allimate previously finish a given level or Oxida registered in our data collection programs "Finish." In the past that one years we have previously explainly whiteher over those thereof template the ox automate registering and a reference (limit outside the capit). This information is registered in Northereof Cell outside the capital outsid | judomated boxes from Nortek, Veh leve set up alarms on these boxes from Vehicles of the environmental souther by 540 usudes a valency of facilities the farm manages and the environmental souther by 540 usudes a valency of the open of the company of the souther of the company of battery power. Force that all locations (and aspecially ASC trains been feeted ones) ones in the view and instructive when resided and for the southern of the company procedure 7381 "Oktoperomätinger." Internal deviation no. A350R, E. 1. | SAI | Jan Petter Kosmo Jan Setter Kosmo Jan Setter Kosmo Jan Setter Kosmo Jan Setter Kosmo Accause, corrective and preventive actions Accepted | | | | | |
| IA-2018-4 | 2.2.6 | | Not seen records of weekly cleaning of boats as stated in "Renholdsplan" 08.03.10. Barge is missing in "Renholdsplan" 08.03.10. | Cleaning log, e.g. January 2018, and cleaning plan "renholdsplan 08.03.10 | 09.02.2018 | Open/Acce pted | | The cleaning plan and log has expired and the site has therefor not signed on this documentation. This is an non-conformances on our routines. | Corrective: The site startet to use the excisting plan and log for documentation. Preventive: Update of the plan and log will be done during risk assessment fish health in March 2018. There will be made templates that should be used at all sites in Nova Sea. Internal deviation no. 2809. (1 attachement). | SA1 | Jan Petter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted | | | | | |
| IA-2018-5 | 2.3.1 | | Not seen testing on farm of feed (percentage of fines). Seen test results from supplier Skretting | Missing documents. | 09.02.2018 | 8 Closed | | means that the first sample results were not comletely ready ready for reporting | The work with fines testing at ASC locations are now initiated and the first results can be reviewed in the attached file (dok id 14746 Resultat Støv og Knus). Internal dev nr.: A7276. (3 attachements). | SA1 | Jan Petter Kosmo 13.03.2018: Closed | | | | | |
| IA-2018-6 | 3.1.7 | Minor | with all samples below 1% fines in feed. Maximum 0,28 adult female lice in week 26 in 2016. | Lice data at Barentswatch form January 2016 | 09.02.2018 | Closed | | during the audit. In 2016 the rules for lice control was different, the limit was 0,1 to do some kind of action, but lice levels above 0,1 was not defined as an overrun like 0,2 was in | | SA1 | Jan Petter Kosmo 13.03.2018: Closed | | | | | |
| | | | | | | | | 2017. | slaughter. Preventive: Continously monitoring lice levels and perform necessary actions. Internal deviation no. A2783. | | | | | | | |
| IA-2018-7 | | Minor | Not seen FFDRm submitted to ASC. | Feed record 2015G per 06.02.2018. Email to ASC 09.02.2018 | 09.02.2018 | Closed | | Client was not aware that FFDRm should be sent to ASC pre-audit. | FFDRm is now sent to ASC. CAB was copied on the e-mail sent to ASC (05.03.2018) Internal dev nr.: A2747. (2 attachements). | | Jan Petter Kosmo 13.03.2018: Closed | | | | | |
| IA-2018-8 | 4.2.2 | Minor | Not seen FFDRo submitted to ASC. | Feed record 2015G per 06.02.2018. Email to ASC 09.02.2018 | 09.02.2018 | Closed | | Client was not aware that FFDRo should be sent to ASC pre-audit. | FFDRo is now sent to ASC. CAB was copied on the e-mail sent to ASC (05.03.2018). Internal dev nr: A2748. (2 attachements). | SA1 | Jan Petter Kosmo 13.03.2018: Closed | | | | | |
| IA-2018-9 | 4.3.2 | Minor | Not seen FishSource score of Sprat. Not seen independent assessment of sprat. | List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Sixtering Korway". Blue Calculation Sixtering Korway". Blue (New Calculation) Kering Korway". Blue (Net Atlantic) MSC certified, Herring, Macketen), Movany Poot, Sandeel, Sardine, Sprat, Penuvian Anchoveta, Capellin (Icolandic). | 09.02.2018 | Closed | | Client does not agree that fourd consistence are reconstant since this rew material is not longer in use by the feed supplier and it lister non-compilant. | Updated file of mean balance calculations is atteched: Internal dev er.: A2750. (1 attachement). | SA1 | Jan Petter Kosmo 13.03.2018: Closed | | | | | |
| IA-2018-10 | 4.4.3 | Minor | Not seen confirmation that the farm has informed ASC whether feeds containing transgenic ingredients are use on farm. | Missing documents. | 09.02.2018 | Closed | | Client was not aware that this information should have been sent to ASC pre- audit. | Confirmation on non-transgenic ingredients is sent to ASC (05.03.2018), CAB was copied on the e-mail. Internal dev nr.: A2751. (3 attachements). | SA1 | Jan Petter Kosmo 13.03.2018: Closed | | | | | |
| IA-2018-11 | | Major | Not seen farm policy and practice not allowing heavy cleaning for copper-treated nets in situ. | Missing documents. | 09.02.2018 | | | cleaning and because of lack of cleaning boats. | Preventive: Updated the procedure: "Vaskebåt" (Cleaning boas), From 2018 there will not be used kopper-treated nets for smolt. The cleaning capacity will be increased with one more boat in juni 2018. Internal deviation no. A2752. (1 attachement). | | Jan Petter Kosmo 13.03.2018: Closed | | | | | |
| IA-2018-12 | | | MOMAC not performed at peak biomass (at 275% peak biomass) last production cycle. | ASC survey by AqualKompetance October 2017 (field work 01.11.2017), report 279-11- 17C BENGA | | pted | | from previous production cycle for certification. Since the decision to certify our locations (Stolkasigen, Renseya, Bukkey, Renga og Kalvhyfila) was talken after the end of the last production cycles this was impossible to do. Also, Kalvhyfila is a first generation farm and as such has never had top production. ASC MOM Cs using the eDNA variance request were taken at all 5 farms at the end of 2017 but resulted in | Stokkarjeen and Kahhylia (August 2018), Renga and Bukkaya (November 2018). All testing will be done to that reports are finished by the end of 2018/start of 2019 in compliance with DNV/GLs follow up ASC certification of these 5 farms. Continue long term planning of ASC certification so that environmental testing can be carried out at too biomass at the end of the corvious seneration. Internal | | Jan Petter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted | | | | | |
| IA-2018-13 | | | Copper level are 3-8 mg Cufvg dry sediment: Statisno socistica 642 AC 9 (4),7 mg Cufvg) and ASC 4 (37,1 mg Cufvg) | 2017 (field work 01.11.2017), report 279-11- 17C RENGA | 09.02.2018 | Open/Acce pted | | neith that lack chapper into the environment over time or because of the washing of the neith in the such label 2016 is used and textual diff or sediment text- taking under salmon farms in Norway and requires a copport salt in the "near factor" closes to the farm. Problem AMOL Cites (the next recent from 2015) don't filmed plant always a some copport even before the contraction of the con- traction of the contraction of the contraction of the contraction of the con- traction of the contraction of the contraction of the contraction of the con- traction of the contraction of the contraction of the contraction of the con- traction of the contraction of the contraction of the contraction of the con- traction of the contraction of the contraction of the contraction of the contraction of the con- traction of the contraction of the contractio | Sering as how copper was high across all stations at Renge was plan on taking early appropriate the same production before (in the worsets) 25th to by the proper stations during the many production before (in the worsets) 25th to by the production of the production of the same production of the production of the production of the production of the production of the ASSIGN of the production of the pro | | Jan Petter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted | | | | | |
| IA-2018-14 | 5.1.3 | | Not seen documentation of delivery of ensilage after 2014. | Missing documentation. | 09.02.2018 | Closed | | The company who handled the entillage in this periode (Scanbio) changed their webpage during the fall owing periode for Bukley. During the same periode Nova Sea also changed entilage company from Scanbio to Hordsfort. The site manager could not log into the webpage and show the documentation during the audit because Scanbio had changed their webpage. | | SAI | Jan Petter Kosmo 13.03.2018: Closed | | | | | |
| IA-2018-15 | 5.2.2 | Minor | Not seen list of antibiotics and treatments that are banned in any of the primary salmon producing or importing countries. | Missing documentation. | 09.02.2018 | 8 Closed | | This is a new requirement through the ASC standard and we did therefore not had this documentation on the initial audit. | Corrective: Designing procedure ID14826 "Forbudte legemidler og stoffer i animalse varer". Preventev serer: Regulary review of the procedure. Internal deviation no. A2753. (1 attachement). | SA1 | Jan Petter Kosmo 13.03.2018: Closed | | | | | |
| IA-2018-16 | | | Cachulurica Prio 23 on 2015G. 2015G Prio 23 on 2015G. 2015G Pri 29,1 | Calculations seen during audit. | 09.02.2018 | | | Indication of more medical transforms than is necessary leading to an increased manner of the medical readments than its necessary leading to an increased manner list aller disclassion in one late. The seal inclined in ordinaries register testing the salmon to anote liquines to them which can result in schools scheaule of open control and the medical results of the control of th | lice in the future. We have a goal for 0.2018 for a PT in of 0 for all footcome. If medicided transferrent must be used as last to province, an avoidance of "high PTI" transments (like childs in whitchers, consolid treatments or reparted transments with the contract of | SAI | Jan Petter Kosmo 13:03:2018: Clused | | | | | |
| IA-2018-17 | 6.1.1 | | There are not agreed rules for 10 representative to have access to 10 members in the two have access to 10 members. In the workplace at reasonable times on the premises. No agreement to represent all workers at a certified farms for social questions in principle 6. | he has insufficient information about | 09.02.2018 | Open/Acce pted | | TU representative is elected by the employees. Now Sea has not seen it reconcurry to have agreements on how the TU representative job should be carried out. | Corrective. The 98 of March there will be a meeting between the TU representatives and the management where they aim to set conditions for how properties the properties of the segment mentioned above, internal deviation no. A2754. | SAI | Darius Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted | | | | | |



| IA-2018-18 | 6.4.1 | Minor | No dedicated non-discrimination training was | Interview with management. Training | 09.02.2018 | B Closed | No focus on this issue and lack of resources. | Corrective: Non-discrimination course has now been performed at the site | SA1 | Darius Pamakstys 11.03.2018: Closed | | |
|------------|-------|--------|---|--|------------|-------------------|--|--|-----|---|--|-----|
| | | | provided for managers and employees. | documents and missing evidences of non- discrimination training. | | | | coordinated with safety inspection. Certificate of the training is stored at the site and in the HR-department. | | 11.03.2018: Closed | | |
| | | | | | | | | Preventive: Non-discrimination training will be a part of the annually health and safety training. | | | | |
| | | | | | | | | Internal deviation no. A2755. (2 attachements). | | | | |
| | | | | | | | | | | | | |
| IA-2018-19 | 6.5.1 | | response procedures/plans. | Missing documents. Interview with management and employees | 09.02.2018 | Open/Acce pted | Not enough awareness of local adjustment, as alarm and emergency telephone numbers are nationwide. Low priority of safety drills at site. | training and correction/adjustment of site spesific emergency plan. | SA1 | Darius Pamakstys 11.03.2018: Root | | |
| | | | No safety drills at site were organized. | revealed limited knowledge of emergency procedures. | | | | Preventive: Annual training will be stipulated in the health and safety plan for each year. Internal deviation no. A2757. | | cause, corrective and preventive actions | | |
| | | | | | | | | | | Accepted | | |
| IA-2018-20 | 6.5.4 | Minor | No root cause analysis applied for non- conformances. | The records in management system are missing for root cause analysis results. | 09.02.2018 | B Closed | The quality management system has not had root cause analysis as an option. | Corrective: A guide for how to perform a root cause analysis was sent to all workers in Nova Sea at 26.02.2018. | SA1 | Darius Pamakstys 08.04.2018: Closed | | |
| | | | contormatices. | Initiality for root cause analysis results. | | | | Preventive: During the non-conformances meetings at industry and seaproduction the focus will be on the root cause analysis. The quality department are leading | | 08.04.2018: Closed | | |
| | | | | | | | | the focus will be on the root cause analysis. The quality department are leading this meetings. Internal deviation no. A2759. (2 attachements). | | | | |
| | | | | | | | | | | | | |
| IA-2018-21 | 656 | Minor | No statement that diving company conform to | No statement available | 09.02.2018 | R Onen/Arre | This is a new requirement through the ASC standard and we did therefore not had | Corrective: Signing of an agreement with the diving company | SA1 | Darius Pamakstvs | | |
| 04101011 | 0.5.0 | Millor | relevant criteria available. | NO JUNEAU BY BEST CO. | 03.02.2020 | pted | this documentation on the initial audit. | Preventive: Updating of procedure "Use of diving services", including that the site managers should control the divers certificat before diving at the site. Internal | | 11.03.2018: Root cause, corrective and | | |
| | | | | | | | | deviation no. A2760. (2 attachements). | | preventive actions | | |
| | | | | | | | | | | Accepted | | |
| IA-2018-22 | 6.6.2 | Minor | No basic needs wage calculation is available. | No evidences of employer and worker representatives cooperation to assess basic | 09.02.2018 | B Closed | above basic needs wage. Nova Sea has not considered this calculations as | Corrective: The calculations are done in collaboration with the employees representative, and signed. | SA1 | Darius Pamakstys 08.04.2018: Closed | | |
| | | | | needs wages. Missing basic needs wage calculation. | | | necessary. | Preventive: The validity of the calculations is set to 2 years and will then be revised. Internal deviation no. A2761. (1 attachement). | | | | |
| | | | | | | | | | | | | |
| IA-2018-23 | 663 | Minor | Job contracts have no clear reference to | Job contracts are missing the reference to | 09.02.2018 | R Onen/Arre | Nova Sea has not thought on this before, it is an improvement of the contract. | Corrective: Update of contracts for employees. | SA1 | Darius Pamakstys | | |
| | | | benefits and support applied. | documents with defined benefits and support. | | pted | and the state of the contract. | Preventive: Update of the contract template for future appointments. Internal deviation no. A2762. (1 attachement). | | 11.03.2018: Root cause, corrective and | | |
| | | | | | | | | CAPAC LA MARCHANIA | | preventive actions | | |
| 14 307 T | 677 | Mare | No defined caller to an | Mining | 00.55 | 1 One 11 | | | 544 | Accepted Darius Pamakstys | | |
| IA-2018-24 | 0.7.2 | winor | contracted to provide supplies or services have | Missing documents and records, Interview with management. | 09.02.2018 | pted pted | This is a new requirement through the ASC standard and we did therefore not had this documentation on the initial audit. | Preventive: We define subcontractors as suppliers of services that is in contact | sA1 | 11.03.2018: Root | | |
| | | | The criteria for evaluation of suppliers and | Very few records of communications with suppliers and subcontractors that relate to | | | | with our fish. We will perform an audit of all subcontractors annually which will include important points from princip 6 in the ASC standard. Nova Sea will make | | cause, corrective and preventive actions | | |
| | | | contractors against social accountability principles are not clearly defined to set | compliance with 6.7.2 are maintained. | | | | an assesment of the answears given by the subcontractor and thereby approve or not approve the subcontractor. | | Accepted | | |
| | | | threshold requirements for supplier and contractor to be approved. | | | | | All other suppliers have to fill out a supplier form where they state that they have and comply with a policy for good social practice. They will not be approved by | | | | |
| | | | | | | | | and comply with a pointy for good social practice. They will not be approved by Nova Sea if they answear "no" to this question. Internal deviation no. A2763. (3 attachments). | | | | |
| | | | | | | | | accaciminencs). | | | | |
| IA-2018-25 | 6.8.1 | | The channels for delivering of Anonymous | The whistle blowing policy is not fully | 09.02.2018 | B Closed | This was missing in our system. | Corrective: Update of the procedure for whistle blowing. Preventive: Keep the procedure updated, Internal deviation no. A2764. (1 | SA1 | Darius Pamakstys 08.04.2018: Closed | | |
| | | | grievances are not stated in the procedure of whistle blowing. | developed to provide conflict resolution in a confidential manner. | | | | Preventive: Keep the procedure updated. Internal deviation no. A2764. (1 attachement). | | U8.U4.2018: Closed | | |
| | | | | | | | | | | | | |
| IA-2018-26 | 7.1.1 | Minor | No consultation meetings with local community | Only invitation was sent to interested | 09.02.2018 | B Open/Acce | ASC requires that community meetings with local interest groups and the | This was a misunderstanding on our part. We thought that the meetings had to be | SA1 | Darius Pamakstys 11.03.2018: Root | | |
| | | | took place. | parties on 2018-01-24. No information available. | | pted | community at large around farms and smolt facilities are held bi-annually. At the time of inspection by DNV/GL in 2018 meetings had been planned and invitations | planned, but not carried out by the time of the initial inspection. We were under the assumption from our interpretation of the standard that these meetings didn't | | cause, corrective and | | |
| | | | | Missing documents. | | | were sent out to the local interest groups, but no meetings had been held. This resulted in non-compliance. In addition, the agenda that was sent out to the | need to be held until later in the year. We now know after having met with DNV/GL that this was not a correct interpretation of the standard and we fully | | preventive actions Accepted | | |
| | | | | | | | interest groups failed to mention that we would take up possible health risks associated with the different medicinal treatments that can be used at our farms. | understand the non-compliance on this point. Agendas were previously sent out to all the interest groups but a new agenda will be sent out with a final date | | | | |
| | | | | | | | | (planned for week 18) which will include as a point "possible health risks associated with medicinal treatments." In accordance with ASC/ DNV/GL the | | | | |
| | | | | | | | | second "meeting" to be held in 2018 will actually be letter correspondence, where | | | | |
| | | | | | | | | all the interest groups will receive a written request from us for complaints/comments/issues that we can then handle accordingly and within an | | | | |
| | | | | | | | | appropriate time. In the future, these meetings will be held annually (with an annual letter correspondence to comply with the "bi-annual" requirement) before | | | | |
| | | | | | | | | DNV/GL arrives for certification. For future ASC locations that we wish to certify, these meetings will be planned and carried out previous to DNV/GLs visit for | | | | |
| | | | | | | | | certification in accordance with the ASC salmon standard. Internal deviation no. A2766. | | | | |
| | | | | | | | | | | | | 1 ' |
| | | | | | | | | | | | | |
| IA-2018-27 | 7.1.2 | | The procedure is developed for presentation, treatment and resolution of complaints lodged | Missing documents. | 09.02.2018 | B Closed | certification, and were principally concerned with application processes when | Corrective: Procedure "Behandling av klager fra interessegrupper" (attached) has been created to include concrete information about the process by which | SA1 | Darius Pamakstys 08.04.2018: Closed | | 1 ' |
| | | | by stakeholders is not defined. | | | | | Preventive: Keep the procedure updated, Internal deviation no. 2767, (1 | | | | |
| | | | | | | | Environmental Controller (who also acts as a government contact and is responsible for applications related to the farms). | attachement). | | | | |
| | | | | | | | | | | | | |
| IA-2018-28 | 7.1.3 | Minor | No consultation meetings with local community | No consultation meeting. See NC in 7.1.1 | 09.02.2018 | Open/Acce | ASC requires that community meetings with local interest groups and the | This was a misunderstanding on our part. We thought that the meetings had to be | SA1 | Darius Pamakstys 11.03.2018: Root | | |
| | | | took place. | | | ptea | | planned, but not carried out by the time of the initial inspection. We were under the assumption from our interpretation of the standard that these meetings didn't | | cause, corrective and | | |
| | | | | | | | were sent out to the local interest groups, but no meetings had been held. This resulted in non-compliance. In addition, the agenda that was sent out to the | need to be held until later in the year. We now know after having met with DNV/GL that this was not a correct interpretation of the standard and we fully | | preventive actions Accepted | | |
| | | | | | | | interest groups failed to mention that we would take up possible health risks associated with the different medicinal treatments that can be used at our farms. | understand the non-compliance on this point. Agendas were previously sent out to all the interest groups but a new agenda will be sent out with a final date | | | | |
| | | | | | | | | (planned for week 18) which will include as a point "possible health risks associated with medicinal treatments." In accordance with ASC/ DNV/GL the | | | | |
| | | | | | | | | second "meeting" to be held in 2018 will actually be letter correspondence, where all the interest groups will receive a written connect from us for | | | | |
| | | | | | | | | complaints/comments/issues that we can then handle accordingly and within an | | | | |
| | | | | | | | | appropriate time. In the future, these meetings will be held annually (with an annual letter correspondence to comply with the "bi-annual" requirement) before DNV/GL arrives for certification. For future ASC locations that we wish to certify, | | | | |
| | | | | | | | | these meetings will be planned and carried out previous to DNV/GLs visit for | | | | |
| | | | | | | | | certification in accordance with the ASC salmon standard. Internal deviation no. A2766. | | | | |
| | | | | | | | | | | | | |
| IA-2018-29 | 8.1 | Minor | Discharge permit states cleansing of discharge | Discharge license from Fulkesmannen i | 09.02.2018 | B Open/Arm | A new system for cleaning of discharge water was installed in 2016. If her been | Corrective: The capasity of the system is expected to be on place when the new | SA1 | Jan Petter Kosmo | | |
| | | | water, not seen evidence of fully functioning | Nordland 25.11.2013 for 8 million smolt/2000 ton feed. | 23.34.2010 | pted | allot of challenges with this new system and Helgeland Smolt has worked together with the supplier of the system to solve this challenges. They did not find a good | condenser will be installed in May 2018. | | 13.03.2018: Root cause, corrective and | | |
| | | | cleansing. | amony 2000 ton need. | | | solution of the problems and Helgeland Smolt decided to find a new supplier in | - Few condenser, mountain deviation no. AZZZZ (1 attachment). | | preventive actions | | |
| | | | | | | | may 2017. | | | Accepted | | |
| IA-2018-30 | 83 | Minor | Not seen MOM-B last 4 years as stated in | Missing documentation. | 09.02.2018 | R Oner/Ac | Misunderstandig of the discharge permit, Helgeland Smolt thought that the | Corrective: New MOM-B is ordered (Argus Miljø). | 541 | Ian Petter Kosmo | | |
| | | | Not seen MUM-8 last 4 years as stated in discharge permit (production started in 2016). | | 05.02.2018 | pted | Misunderstanding of the discharge permit, Heigeland Smort thought that the requirement was based on 4 years after the production started, which was in 2016. | Preventive: Written appliction for changes of the terms in the discharge permit so | | 13.03.2018: Root | | |
| | | | | | | | 2016. | that new sampling should be done 4 years after the production started and not 4 years after last MOM-B. Internal deviation no. A2773. (2 attachments). | | cause, corrective and preventive actions | | |
| | | | | | | | | | | Accepted | | |
| IA-2018-31 | 8.20 | Minor | No consultation meetings with local community took place. | management. | 09.02.2018 | Dpen/Acce pted | Did not know that this meetings should be carried out before the initial audit. | Corrective: Should be carried out in cooperation with Nova Sea in week 18 2018. Preventive: Carried out on a regular basis. Internal deviation no. A2774. | SA1 | Darius Pamakstys 11.03.2018: Root | | |
| | | | | Missing documents. | | | | | | cause, corrective and preventive actions | | |
| | | | | | | | | | | Accepted | | |
| IA-2018-32 | 8.23 | Minor | No consultation meetings with local community took place. | No meetings organized. See NC in 8.20 | 09.02.2018 | Open/Acce pted | Did not know that this meetings should be carried out before the initial audit. | Corrective: Should be carried out in cooperation with Nova Sea in week 18 2018. Preventive: Carried out on a regular basis. Internal deviation no. A2774. | SA1 | Darius Pamakstys 11.03.2018: Root | | |
| | | | • | | | | | | | cause, corrective and preventive actions | | |
| | | | | | | | | | | Accepted | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | 1 | I | I | 1 | | | |



ASC Audit Report - Traceability

| 10 | Traceability Factor | 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. |
| | 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). Only transport from one seasite to the slaughterhouse at the time. |
| 10.3 | The possibility of subcontractors being used to handle, transport, store, or process certified products. | Wellboat services are subcontracted. Approved wellboat companies are used during transhipments of salmon between the site and holding cages/harvest plant. Biosecurity legislation and implemented QMS management system and procedures at the site and within the company prevent the wellboats from visiting other salmon farms/sites in the same assignment. The possibility for mixture of salmon in holding 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 holding cage at a time in the harvest/processing plant Transports are always identifiable on production unit level (cage). All information is kept in electronic system FishTalk and in hard copies. |
| | Any other opportunities where certified product could potentially be mixed, substituted, or mislabelled with non-certified product before the point where product enters the chain of custody. | No other possibility for mixing products. |

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

The company has a robust and well implemented quality system, which covers the whole organization from smolts to sales.

All stages of fish live cycle within the scope of this certification standard are traceable. Documents describe a satisfactory control with incoming products, from freshwater sites and external suppliers, and corresponding documentation of production sites and suppliers. Digital information is handled in FishTalk/Landax for on-growing phase in seawater and from freshwater stage.



10.6 Traceability Determination:

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

Yes

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

10.6.3 The point from which chain of custody is

required to begin.

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

The harvest plants is in process of ASC CoC certification (ref. to www.asc-aqua.org where updated information can be found):

Nova Sea AS, certificate code ASC-C-01705.

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

No, not for the unit of certification.



ASC Audit Report - Closing

12 Evaluation Results

12.1 A report of the results of the audit of the the standard and guidance documents.

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

The principles where full compliance was found: 1.

For the rest of the principles, 2, 3, 4, 5, 6, 7 and 8, full compliance was not found, although most of these were mainly compliant.

The audit hence resulted in 31 Minor category Non-Conformities and 1 Major category Non-Conformities. Reference is made to ASC Farm certification and Accreditation Requirement 17.4.2 and 17.4.3. As the fish were not at harvest size during the audit, harvest was not overseen by the auditor. Harvest is performed by the company. VR used during audit: VR nr.39 approved 15.09.2014 by ASC on phosphorus release from smolt producer. Rationale for use of VR 39 during audit is that as for accepted VR 39 the smolt producers effluent is seawater not freshwater. VR nr. 179 approved 24.08.16 by ASC for translation of reports into local language (Norwegian). Reports will be accepted in English. VR nr. 97 approved 20.08.2015 by ASC for calculation of PTI based on biomass. VR nr. 98 approved 20.08.2015 by ASC for calculation of PTI based on number of pens treated. If necessary stakeholders can get in touch with DNVGL and we can translate necessary information.

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

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

Renga site capability to consistently meet the objectives of the ASC Salmon Standard is expected for the future. The unit of certification had Major and Minor NCs. Corrective actions for closing of Major Non conformities are presented and approved by DNV GL.Corrective actions for closing or acceptance of Minor Non conformities, subject to corrective action plan for the non conformities are presented and approved by DNV GL.

123 In cases where Biodiversity Environmental Impact Assessment (BEIA) or Participatory Social Impact Assessment (PSIA) is available, it shall be added in full to the audit report. IF these documents are not in English, then a synopsis in English shall be added to the report as well.

Not applicable.

13 Decision



Yes. 13.1 Has a certificate been issued? (yes/no) **Compliant.** Considered compliant and recommended certified now after satisfactory closure of Major non-conformances, and satisfactory closure and a corrective action plan for Minor non-conformances is implemented by the client and approved by DNV • Final certification decision has been be taken in this final report after completion of stakeholder period. • Final certification decision has been taken by DNV GL and the applicant is certified and can claim ASC Aquaculture certification status. 13.2 The Eligibility Date (if applicable) The Eligiblity Date is the date of certification. Certificate validity 13.04.2018 - 13.04.2021. 13,3 Is a separate CoC certificate required for No, not for the unit of certification. the producer? (yes/no) 13.4 If a certificate has been issued this 13.4.1 The date of issue and date of expiry of Certificate validity 13.04.2018 - 13.04.2021. the certificate. 13.4.2 The scope of the certificate Production of Atlantic salmon (Salmo salar). Stakeholders can contact DNV GL and/or Lead Auditor as specified in report section I 13.4.3 Instructions to stakeholders that any complaints or objections to the CAB Audit report opening, contact information is also available in notifications received as decision are to be subject to the CAB's stakeholder from DNV GL. Information and documents related to contacting or complaints procedure. This section shall complaints to DNV GL is available at www.dnvgl.com include information on where to review the procedure and where further information on complaints can be found.

14 Surveillance

| 14.1 | Next | planned | Surveillance | |
|---------|-------|----------|---------------|--|
| | INCAL | piailica | Jul Velliance | |

14.1.1 Planned date

14.1.2 Planned site

14.2 Next audit type

14.2.1 Surveillance 1

14.2.2 Surveillance 2

14.2.3 Re-certification

14.2.4 Other (specify type)

2019 - Specific date not decided at this stage.

Renga

SA1 - 2019



ASC – Aquaculture Stewardship Council Request for interpretation or variance

I CAB Request

| 1.1 NAME OF CAB | 1.2 DATE OF SUBMISSION | 1.3 CAB CONTACT PERSON | 1.4 EMAIL ADDRESS OF CAB CONTACT PERSON |
|-----------------------------------|---------------------------|--|---|
| DNV GL - Business Assurance | 05.09.2014 | Kim-Andre Karlsen / Guro Meldre Pedersen | kim.andre.karlsen@dnvgl.com guro.meldre.pedersen@dnvgl.com |

1.5 ASC DOCUMENT REFERENCE

ASC Salmon Standard Version 1.0 June 2012.

Principle 8, Criterion 8.4 Maximum total amount of phosphorus.

1.6 BACKGROUND (PROVIDE FULL EXPLANATION OF THE ISSUE)

Requirement 8.4 of the ASC salmon standard sets a limit to how much phosphorus is discharged from the farm per unit smolt produced. The requirement is set at 5 kg/mt for the first three years from date of publication of the ASC Salmon Standard, dropping to 4 kg/mt thereafter. This requirement falls under section 8 (Requirements for smolt production) that contains the full suite of principles, criteria, indicators and requirements for responsible salmon farming at freshwater smolt sites. Under the rationale for the development of this requirement it is stated that nutrient discharge into the freshwater environment is one topic of concern when evaluating the impacts of smolt production. Phosphorus is used as a reference for water quality in the freshwater environment.

8.4 Maximum total amount of phosphorus released into the environment per metric ton (mt) of fish produced over a 12-month period (see Appendix VIII-1)

5 kg/mt of fish produced over a 12-month period; within three years of publication of the ASC Salmon Standard, 4 kg/mt of fish produced over a 12-month period

Several sites across Norway have been audited according to the ASC salmon standard. Compliance with requirement 8.4 has not been possible and minor NC has been identified as P levels in wastewater are above the limit of 5 kg/mt. In this VR we argue that such limit should be applicable only when wastewater from smolt facilities is discharged into a freshwater environment but not when wastewater is discharged directly into a marine environment which is the case of smolt facilities in Norway. Phosphorus has been clearly identified as a key growth-limiting nutrient in freshwater environment (Schindler 1977, OECD 1982) and therefore limiting its release into freshwater is an important action to limit eutrophication. The responses of freshwater environments to nutrient enrichment are well documented for most regions in the world allowing the possibility to set limits to phosphorus release. However, knowledge on marine coastal eutrophication is limited and the controls of eutrophication in freshwater and coastal marine ecosystems have been recognized as different (Smith, 2003). In fact, in coastal marine environments, nitrogen (N) has been recognized as the major cause of eutrophication (Howarth and Marino, 2006).

As noted on page 23 of the ASC salmon standard the SAD technical group has recognized that the effects of nutrient loading into costal environments still need to be established and therefore no specific limits on N or P release into the marine environment have been set: "The SAD technical working group on nutrient loading identified the potential link between nutrients around salmon farms and harmful algal blooms as one that had yet to be established but around which there remained some uncertainty and for which there was an intuitive concern around the effect of the cumulative anthropogenic nutrient load into coastal waters. The group noted a shortage of field studies to validate hypotheses from lab-based work."

Howarth RW and Marino R (2006). Nitrogen as the limiting nutrient for eutrophication in coastal marine ecosystems: evolving views over three decades. Limnol. Oceanogr., 51, 364–376

OECD (1982): Eutrophication of waters: Monitoring, assessment and control. Organisation for Economic and Cooperative Development, Paris, France

Schindler DW (1977): Evolution of phosphorus limitation in lakes. Science 195, 260-262



ASC – Aquaculture Stewardship Council Request for interpretation or variance

1.7 RECOMMENDED ACTION / DECISION

DNV GL recommends that ASC approves this VR request for the upcoming ASC Audit at Marine Harvest Site Skipningsdalen 22.09 - 26.09.2014 in Norway, and to apply the limits set under requirement 8.4 to smolt facilities that discharge wastewater into freshwater only.

II ASC Determination

| 2.1 STATUS | 2.2 Date of the ASC Determination | | | | |
|---|-----------------------------------|--|--|--|--|
| [X] Closed | 15 September 2014 | | | | |
| 2.3 ASC DETERMINATION ON VARIANCE REGUEST | | | | | |

Approved

2.4 ASC INTERPRETATION

Although the ASC has a different view on the availability of studies on the subject, we do agree with the fact that in the current version of the ASC Salmon standard discharging in a marine environment is not addressed in a binding manner.

FYI: The ASC Standards will be reviewed periodically (at a minimum once per 5 years) and the criteria/requirement for this issue may change.



FORM 1 - Request for Interpretation or Variance - ASC

This form is for the submission of requests by CABs to the ASC to request interpretations of the ASC normative requirements and/or requests for variance from specific normative requirements.

I - CAB Request

| 1.1 Name of CAB | 1.2 Date of Submission | 1.3 CAB Contact Person | 1.4 Email Address of CAB Contact Person | | |
|---|------------------------|---------------------------|--|--|--|
| Food Certification Scotland International | 17/07/15 | Matthew James | Matthew.James@acoura.com | | |

1.5 ASC Document Reference

Criteria 5.2.5

Indicator: Maximum farm level cumulative parasiticide treatment index (PTI) score as calculated according to the formula in Appendix VII

Requirement: PTI score ≤ 13

Indicator Compliance Criteria

1.6 Background (Provide full explanation of the issue)

The PTI score is aimed at reducing the amount of sealice medication used on a site in order to keep well within safe limits that will not harm the environment and sensitive wild species.

With reference to the in-feed therapeutant emamectin benzoate (EMBZ), within the Scottish regulatory framework, SEPA have modelled a Maximum Treatment Quantity (MTQ) allowed within a 7 day period for each site. This defines a single treatment of a whole site at maximum standing biomass using a standard recommended dose of EMBZ.

Therefore if 1x MTQ represents a single standard dose of a whole site at full biomass, it follows that an amount of product used to treat a site at half biomass should count 50% of this, and a simple ratio of Treatment Quantity (TQ): MTQ should be used to determine a fraction of a treatment. This encourages farms to use Slice at times when the biomass on a site is lower, and therefore discharge less therapeutant into the environment.

Calculation Example from real treatment data: Slice used shortly after smolt input with a TQ of 12% of MTQ and again later in the cycle with a TQ of 23% of MTQ and for a 3rd time at 88% of MTQ. Total amount of EMBZ discharged = 1.0766kg

Proposed PTI calculation:

 $4 \times 0.8 \times 1 \times 1 \times 0.12 = 0.384$

 $4 \times 0.8 \times 2 \times 1 \times 0.23 = 1.472$

 $4 \times 0.8 \times 2 \times 1 \times 0.88 = 5.2$

Total = 7.056

This is far more desirable than using the product in the second half of the cycle when the farm will already consistently be at maximum biomass and a full MTQ amount will be used on each occasion, discharging 2.625kg of EMBZ during the cycle, more than double the amount in the example above.

PTI calculation:

 $4 \times 0.8 \times 1 \times 1 \times 1 = 3.2$

 $4 \times 0.8 \times 2 \times 1 \times 1 = 6.4$

 $4 \times 0.8 \times 2 \times 1 \times 1 = 6.4$

Total = 16





Therefore using a fraction of the PTI element for each treatment at lower biomasses encourages more efficient use of the product. It is also well known that good sealice control is required especially at the outset of a cycle to prevent a significant population of sealice from gaining momentum. Slice is certainly most effective when used to prevent a settlement from becoming established in the first place and the PTI scoring should reward a farm for using the product early and penalise a farm for using it later.

1.7 Recommended Action/Decision

To use TQ:MTQ to determine a fraction of a Slice (EMBZ) treatment and apply this fraction in determining the overall PTI score.

II - ASC Determination

| 2.1 Status | 2.2 Date of the ASC Determination |
|------------|-----------------------------------|
| | 20/08/2015 |

2.3 ASC Determination of Variance Request

The ASC committee agrees to approve the VR therefore ASC grants the VR.

2.4 ASC Interpretation

This is an innovative approach for the sea lice management and we support that ASC standards should help to encourage innovation to solve problems. Therefore under the condition of publicizing this fact (more than just the requirement to have the VR on our website), we approve this VR. We have already asked the farm to allow us to make their findings public in one of our public updates thus encouraging other farms to follow their example.

(Two documents regarding the sea lice management were received from Marine Harvest Scotland (by Catarina) on 20/08/2015 - Saved under the farm file)



FORM 1 - Request for Interpretation or Variance - ASC

This form is for the submission of requests by CABs to the ASC to request interpretations of the ASC normative requirements and/or requests for variance from specific normative requirements.

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| 1.1 Name of CAB | 1.2 Date of Submission | 1.3 CAB Contact Person | 1.4 Email Address of CAB Contact Person |
|---|------------------------|---------------------------|--|
| Food Certification Scotland International | 17/07/15 | Matthew James | Matthew.James@acoura.com |

1.5 ASC Document Reference

Criteria 5.2.5

Indicator: Maximum farm level cumulative parasiticide treatment index (PTI) score as calculated according to the formula in Appendix VII

Requirement: PTI score ≤ 13

Indicator Compliance Criteria

1.6 Background (Provide full explanation of the issue)

In assessing the sealice population on a farm, MHS now assesses each pen as an epidemiological unit, rather than averaging the site sealice count as a whole. Every pen is assessed by counting and staging the lice on twenty fish per pen every week. Previously only five pens where used to determine the average for the site as a whole. Using data with this finer resolution has allowed a far more acute response to emerging hotspots of sealice build-up on a farm. Strategic treatments are still carried out across the whole farm but it follows that individual pens with a sealice build-up can be targeted especially with bath treatments.

The PTI score is aimed at reducing the amount of sealice medication used on a site in order to keep well within safe limits that will not harm the environment and sensitive wild species.

We propose that the PTI scoring system should adequately reflect this far more prudent and targeted use of therapeutant.

Firstly we suggest that as individual pens are treated they each count as a fraction of a full treatment. Calculation example:

Week 10: 1 pen out of 10 is treated.

Week 12: 3 pens out of 10 are treated.

Week 18: 5 pens out of 10 are treated.

During this time 90% of the pens have had a treatment so this represents 90% of a single site treatment.

PTI assuming deltamethrin: $6 \times 0.8 \times 1 \times 1 \times 90\% = 4.32$

Secondly the example about assumes that no single pen has been treated more than once. We propose that Component 3: the Resistance Factor should only be advanced from a factor of 1 to a factor of 2 when a single pen receives its second treatment within a 12 month period. It could then be argued that the lice population of that unit has now received a second dose of the same product and selection pressure for resistant genes will have intensified.





Calculation Example continuing from above:

Week 24: 2 pens out of 10 are treated, 1 of which is receiving its first treatment and the other being treated with the same product for the second time:

PTI assuming deltamethrin:

 $6 \times 0.8 \times 1 \times 1 \times 10\% = 0.48$

 $6 \times 0.8 \times 2 \times 1 \times 10\% = 0.96$

Total PTI: = 1.44

It is well understood that single pen treatments per se, do not promote the development of resistance to therapeutant. Leaving pens with lower lice counts untreated preserves a refugium of naïve genes within a site and ensures that the overall resistance status of the sealice on a site will not intensify to the same degree as it would if the whole site were treated, thereby wiping out all sealice that carry the sensitive genes.

1.7 Recommended Action/Decision

When bath treating individual pens: To calculate PTI scores for individual pens to represent their fraction of the site as a whole and to apply resistant factor of 2 only when an individual pen receives more than 1 treatment in a 12 month period.

II - ASC Determination

| 2.1 Status | 2.2 Date of the ASC Determination | |
|------------|-----------------------------------|--|
| ⊠ Closed | 20/08/2015 | |

2.3 ASC Determination of Variance Request

The ASC committee agrees to approve the VR therefore ASC grants the VR.

2.4 ASC Interpretation

This is an innovative approach for the sea lice management and we support that ASC standards should help to encourage innovation to solve problems. Therefore under the condition of publicizing this fact (more than just the requirement to have the VR on our website), we approve this VR. We have already asked the farm to allow us to make their findings public in one of our public updates thus encouraging other farms to follow their example.

(Two documents regarding sea lice management were received from Marine Harvest Scotland (by Catarina) on 20/08/2015 - Saved under the farm file)





ASC – Aquaculture Stewardship Council Request for interpretation or variance

I CAB Request

| 1.1 NAME OF | 1.2 DATE OF | 1.3 CAB CONTACT | 1.4 EMAIL ADDRESS OF |
|-------------|---------------|----------------------------------|--------------------------------|
| CAB | SUBMISSION | PERSON | CAB CONTACT PERSON |
| DNV GL | 8. April 2016 | Kim Andre | Kim.Andre.Karlsen@dnvgl.com |
| Business | | Karlsen | Guro.Meldre.Pedersen@dnvgl.com |
| Assurance | | Guro Meldre | Sander.Buijs@dnvgl.com |
| Norway AS | | Pedersen | |
| | | Sander Buijs | |

1.5 ASC DOCUMENT REFERENCE

ASC Farm Certification and Accreditation Requirements v1

Annex C – Aquaculture Audit Report Requirements

C2: Audit and surveillance reports shall be written in English and in the most common language spoken in the areas where the aquaculture operation is located.

ASC Farm Certification and Accreditation Requirements v2

Annex C – Aquaculture Audit Report Requirements

C1. Audit reports shall be written in English and in the most common language spoken in the areas where the operation is located.

Audit notification: 17.2.4.2 The notice shall be in the local language(s) and English.

1.6 BACKGROUND (PROVIDE FULL EXPLANATION OF THE ISSUE)

The translation of audit reports is a significant cost to the ASC farm certification process and implementation of CAR v2 should take a pragmatic approach adapted to the stakeholders' normal language competences in the area where the candidate site for ASC farm certification is situated.

With the transfer to ASC CAR v2, DNV GL will implement the standard audit report template as required. The general public competence in the English language is high in Scandinavia. DNV GL therefore seeks a variation to the above ASC CAR paragraphs for audits conducted at operations located in Scandinavia to:

- Allow the Audit report in its entirety to be published only in the English version.
- Allow the Audit notification to be published only in the English version.

This variation should not in any way jeopardize the integrity of the ASC programme or the access for stakeholders to relevant information. Any requests from stakeholders to make details of information available in the local language will be fulfilled.

Experience with other schemes including extended stakeholder involvement and broader public engagement than ASC farm, such as MSC Fisheries, has demonstrated that publishing of reports in only the English language has not been an obstacle to stakeholder dialogue or comments.

1.7 Recommended action / decision

DNV GL recommends a variation to the above ASC CAR clauses to allow Audit notifications and Audit reports for audits at operations located in Scandinavia to be published only in English.



ASC – Aquaculture Stewardship Council Request for interpretation or variance

II ASC Determination

| 2.1 STATUS | 2.2 DATE OF THE ASC DETERMINATION | | |
|---|-----------------------------------|--|--|
| X□Closed | 24/08/2016 | | |
| | | | |
| 2.3 ASC DETERMINATION ON VARIANCE REQUEST | | | |
| This VR is approved. | | | |
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| | | | |
| | | | |

2.4 ASC INTERPRETATION

It is a key requirement under the ASC Certification and Accreditation Requirements v1.0 and v2.0 to have audit reports available in both English and the local language.

Given the fact that all Scandinavian countries (Sweden, Denmark, Norway) are rated as "very high" (resp. position 1,3,4) in the English Proficiency Index (http://www.ef.nl/epi/) it can safely be assumed that English understanding is sufficient in order to understand the content of an ASC audit report. Based on this, this VR is approved.