

Instructions and disclaimers

General:

The announcement and report shall be submitted via mail to ASC in **Excel** if not specified differently: certification@asc-aqua.org

If you would like to register a problem or issue with the document or wish to leave feedback and suggestions for improvements, please contact: certification@asc-aqua.org

All fields must be visible in Excel format and no field shall be omitted or deleted. ASC reserves the right to refuse to publish incomplete and low quality reports.

This document has been developed in collaboration with the [ASC Programme Assurance team](#) and [Standards & Science team](#) for ASC single-site, multi-site and group certification farm audits. A copy of all documents (Audit reports templates, confidential annexes etc.) are uploaded on to the ASC website and are publicly available.

Only fully completed forms are accepted by the ASC. Incomplete forms may lead to a delay in the certification process.

In case the audit report template for Multi-site and Group-certification does not contain enough site rows for the amount of sites applicable for a specific applicant, please contact certification@asc-aqua.org

How to use this document

This document layout is formatted into tables for data entry and questions to record answers and evidence.

You can adjust the width of the columns to display all information.

Users shall **not** delete any rows or columns.

Data filled out in the audit announcement (form 3) sheet, will be automatically populated in the audit report itself.

Be aware that there are 3 different types of audit report templates: 1. Single-site, 2. Multi-site and 3. Group certification.

Next to these 3 templates, there is the Audit Report Template V2.0 Confidential Annex, applicable to the 3 different versions of the audit report template.

Document type - PDF conversion - Guidance

Always save your document as a **macro-enabled** spreadsheet (click on "File", "Save As" and make sure the document type is saved as "Excel Macro-Enabled Workbook").

If your audit team plans to work on a shared online document - ensure the platform app supports **macro-enabled** functionality.

Please do not delete any rows, columns, fields or sheets (except for irrelevant species sheets). As the template is running multiple macros and formulas in the background, it is **NOT** possible to take out any sheets and copy paste them back in.

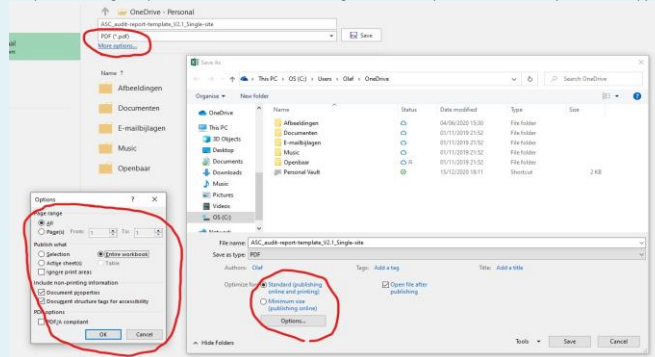
To save the full excel document as a pdf, please follow these steps:

1. Click on "File", "Save As"
2. Select PDF as document type and click on "more options"
3. Click on "options" in the box that shows up
4. Set "page range" to All and set "publish what" to Entire workbook and click on "ok"
5. Click on "Save" and the entire document will be saved as a PDF document in the correct format

Extra note:

The page layout is selected in a way that all tables are visible in the PDF.

Tables may appear small, however it is possible to read them by using the PDF zoom function.



Spelling Check

How to run the excel spell check in this document?

- This can be enabled with the following key combination: Ctrl + Shift + S.
- This opens the spell-check dialogue box, cycling through all the recognised spelling mistakes.
- After the last recognised mistake is address - the dialogue closes and the worksheet is automatically locked again.
- If there are no mistakes the dialogue box does not open.
- This then needs to be repeated for each worksheet with audit data.

(The spell check ignores capitalised abbreviations - but will still identify mix abbreviations as mistakes e.g. UoC)

What if changes are made?

If changes were made e.g. from the announcement to the audit report or when an updated report is submitted to ASC, ALL cells containing changes shall be highlighted in yellow for transparency reasons, and as far as possible a clear statement on the update shall be made in the respective field.

Confidential information - Data protection and publication of reports

All fields in the announcement and audit report are mandatory and shall be filled out and will be made publicly available. However, should the client or CAB desire to submit certain data confidentially (e.g., for GDPR or commercial sensitivity reasons), this data can be entered in the **confidential annexes**, which are provided in a **separate document** than this audit report template. Please BE AWARE that confidential Annex-3 is always mandatory to be filled out and shall be submitted to the ASC, together with the audit report. Confidential annexes will NOT be made publicly available.

Comments or guidance

For a lot of the fields in the announcement and audit report, a guidance field pops up as soon as the field is selected.

Some fields are marked with a red triangle in the corner, meaning that the field contains a guidance comment.

Data restrictions & conditional formatting

This audit report template contains a lot of fields with data validation and data restriction fields, allowing for only a certain type of data to be filled out in the specific field (For example, date fields, picklists, numbers etc.). Please **ONLY** fill out the requested type of data. If not filled out correctly, an error message will pop up, giving guidance to enter the correct type of data.

The audit report template also contains a lot of fields with conditional formatting, meaning that cells or field will be highlighted, based on the type of data filled out. Some cells are highlighted with red, these will change to blue when data is entered into the cell. This makes it easier to detect fields that are not filled out, but shall be filled out. Please note that all fields are required and shall be filled out.

Link to all the sheets

[Audit Announcement \(Form3\)](#)

[1\) General, client-CAB info](#)

[2\) Audit Information](#)

[3\) Site Information](#)

[4\) Harvest witnessing](#)

[5\) Stakeholder engagement](#)

[6\) Social Audit](#)

[7\) Traceability risk assessment](#)

[8\) UoC volumes&Audit Closing](#)

[9\) Open & Extended NCs](#)

[10\) BEIA-PSIA checklist](#)

[Audit findings "species"](#)

1. General, client/CAB information

- 1.1 Document Type
- 1.2 Document language
- 1.3 Second document language
- 1.4 Unit of certification type
- 1.4.1 Company name
- 1.4.2 UoC name
- 1.5 Country where UoC is located
- 1.6 ASC Standard
- 1.7 Standard version
- 1.8 Certification process is subject to CAR version

- 1.9 Name of the Conformity assessment body (CAB)

Final Report
English
Single Site
Grieg Seafood BC Ltd.
Williamson
Canada
Salmon
1.3
2.2
SGS Nederland BV

Client contact person - from the UoC

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

Kristin
Storry
Certification Manager
kristin.storry@griegseafood.com
2502860838 Ext.148

2. Audit Information

Include the dates for publication of the announcement and draft reports before each respective submission.

2.1	Date - Audit announcement published on ASC website	Wednesday, January 26, 2022	
2.2	Date - Draft report published on ASC website		
2.3	Date - Final report submitted to ASC	Friday, July 22, 2022	
2.4	Audit ID	A0005765	
2.5	ASC standard principles covered by the audit	Principle 1	Covered
2.5.1		Principle 2	Covered
2.5.2		Principle 3	Covered
2.5.3		Principle 4	Covered
2.5.4		Principle 5	Covered
2.5.5		Principle 6	Covered
2.5.6		Principle 7	Covered
2.5.7		Principle 8	Covered

2.6	Activities covered under the scope of the certification and under the scope of the audit. Activities in the table apply to final product only.	Activity	Under scope of certification	Under Scope of this audit	Notes
2.6.1	Stocking		Covered	Covered	
2.6.2	Nursing		Covered	Covered	
2.6.3	Growing Out		Covered	Covered	
2.6.4	Transferring		Covered	Covered	
2.6.5	Harvest		Covered	Covered	
2.6.6	Vaccination		Covered	Covered	
2.6.7	Fallowing		Covered	Covered	
2.6.8	Transportation		Covered	Covered	
2.6.9	Storage (if present at farm)		Not Covered	Not Covered	
2.6.10	Processing (if present at farm)		Not Covered	Not Covered	
2.6.11	Packing (if present at farm)		Not Covered	Not Covered	
2.6.12	Other (Please describe)				

2.7	Certification cycle	1
2.8	Audit type	Surveillance audit
2.9	Audit number in certification cycle	3
2.10	Will harvesting be witnessed during audit?	Yes
2.10.1	If harvest is NOT witnessed, please justify:	It is intended to witness harvest
2.11	Audit conducted (On-site/Remote):	Assisted remote

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

2.12	2.12.1	2.12.2	2.12.3
Time assigned to audit activities	Social Auditor(s)	Environmental auditor(s)	
Off-site activities	20	44	
On-site activities	40	64	
Total man days	7.5	13.5	

Audit team and other involved persons				
2.13	2.14	2.15	2.16	2.17
Surname	First name	Role	Expertise needed for the audit (required for technical experts only)	Person on-site or remote?
Rees	Howard	Audit team leader		On-site
Johnson	Robert	Social Auditor		Remote
den Boon	Nikki	Technical reviewer		

3. Site information

List all sites here, that are included in the certificate.

GIS, polygon data and map on site level validated by auditor?

3.1	3.2	3.3	3.4	3.5	3.13	3.14	3.15	3.16	3.17	3.18	3.19	3.20	3.21	3.22	3.22.1	3.22.2	3.23	3.23.1	3.24	3.25	3.26	3.26.1	3.27	3.28	3.29	3.30	3.31	3.32
Site ID - provided by ASC with publication confirmation of audit announcement	Site name	Ownership	Primary culture species	Secondary species (choose multiple species as relevant)	Latitude (N, S) (00.000000)*	Longitude (E, W) (00.000000)*	Production system	Number of production units	Production type	Production method	Date of inclusion into the UoC (for scope extension/group/multi-site)	Start date of audit	End date of audit	First date of juvenile stocking for the current production cycle	Estimated number of months post audit to peak biomass/ first harvest	Status at the time of the current audit	List of other certificates (choose multiple options as relevant)	List of other certificates: if 3.23 is "Other", please list the certificates:	Is the site partially certified?	If partially certified, which part is not in the UoC and why?	The volumes indicated in the fields 3.27-3.30 apply to the following [dd, calendar year:	Type of volumes indicated in 3.27-3.30	ASC-certified production volume (in kg)	Non ASC-certified production volume (in kg)	Harvested or sold as ASC-certified Volume (in kg)	Harvested or sold as non ASC-certified Volume (in kg)	For Bivalve/Abalone: Volumes indicate in 3.27 - 3.30 are given in live weight equivalent or volume without shell	Note/ Other information
50001900	Williamson	Owned	Atlantic salmon (Salmo salar)		49.656895	-126.429889	Cages - square steel	14.000000	Monoculture	Intensive		16/03/2022	25/03/2022	29-Nov-20	2/16/2022	Harvest	GAA/BAP		No		2020 Actual volume	Actual volume	3,102,000		3,102,000			

4. Harvest witnessing

4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
Site ID - provided by ASC with publication confirmation of audit announcement.	Site name	Date of witnessed harvest:	Production unit ID:	Volume harvested (in Kg):	Average weight of animals (in g)	Partial harvest / full harvest:	Note/ Other information
S0001900	Williamson	23/03/2022	Pen 13	113284.75	4880	Partial harvest	Harvest witnessed at Muchalat North. Harvest practices, procedures and documentation are the same among all Grieg sites. Harvest Vessel - Silver Dolphin.

8. UoC volumes & Audit Closing

Please indicate the correct volumes of the applicable quarter and year.

Volume reporting for complete UoC					
Quarter of the year:	Quarter 1	Quarter 2	Quarter 3	Quarter 4	
8.1	The volumes indicated in this table apply to the following year:	2018	2018	2018	2018
8.1.1	Type of volumes indicated in 8.2 - 8.5	Actual volume	Actual volume	Actual volume	Actual volume
8.2	ASC-certified production volume (in Kg)	1,240,800	1,861,200	0	0
8.3	Non ASC-certified production volume (in Kg)	0	0	0	0
8.4	Dispatched or sold as ASC-certified Volume (in Kg)	1,240,800	1,861,200	0	0
8.5	Dispatched or sold as non ASC-certified Volume (in Kg)	0	0	0	0

Decision	
8.6	Certification decision
<p>All elements in the standard and guidance documents have been completed. No stakeholder feedback was submitted. It is determined that the UoC has the capability to meet the objectives of the relevant ASC Standard. Ongoing certification granted on 22/07/2022. Any complaint or objections to this decision are to be subject to SGS's complaints procedure. All complaint and/or objections should be submitted in writing to asc.report@sgs.com. The related procedures can be found at www.sgs.com</p>	
8.7	Certificate valid from
2/5/2020	
8.8	Certificate valid till
2/4/2023	
8.9	Eligibility date

Confidential Annexes	Annex filled in?	Annex submitted to ASC?	
8.10	Annex-1 Interviewee information	Yes	Yes
8.11	Annex-2 Stakeholder comments	Yes	Yes
8.12	Annex-3 Social information	No	Yes
8.13	Annex-4 Volume data	No	Yes

Adjust the column width as needed to show the whole text or provide more space to write
Corresponds to ASC Salmon standard version 1.3

Indicator Number	Indicator Text	Audit Evidence	Overall Indicator evaluation	Description, justification and conclusions for the evaluation decision	Date of NC detection	Deadline for NC close-out	Actual date of close out	NC Status	VR submitted	Status of submitted VR	VR used	Q&A submitted/used	Proposed by UoC and accepted by CAB			Auditor evaluation	Extension justification	New deadline for NC close-out	Notes
													Root cause analysis	NC correction	NC Corrective action				
1.1.1	Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use Requirement: Yes Applicability: All	Digital copies of applicable land and water use laws are available, and the following documents were presented: 1) Freshfish Aquaculture Licence AQDF 120999 issued by the Department of Fisheries and Oceans (DFO), expiring June 30, 2022; 2) Licence of Occupation re Land File No. 1411068 was shown as issued Sept 24 2019, Status Active on government online system, GATOR (General Access to Online Requests). 3) Campbell River Business Licence issued March 15 2022 exp Feb 27 2023 DFO auditing and enforcement activities confirm GPS co-ordinates, site monitoring records, HMP compliance, benthic surveys and site debris. The farm is not located in any national preservation areas.	Compliant																
1.1.2	Indicator: Presence of documents demonstrating compliance with all tax laws Requirement: Yes Applicability: All	Greg Seafood is a registered company operating under tax number GST 13887 6479 RT0003, confirmed in Canada Revenue Agency letter of Jan 18, 2018. The company is also incorporated in the Province of British Columbia under incorporation # BC1147456. The City of Campbell River Business License is renewed annually 100545, Exp. Feb 27, 2023 Specific to the Williamson site (1) 2021 Property Tax Notice – Account Number RPT-1098-1330 (BC Ministry of Finance); (2) Crown Land Invoice # 413564(BC Ministry of Forests, Lands and Natural Resources).	Compliant																
1.1.3	Indicator: Presence of documents demonstrating compliance with all relevant union and local labour laws and regulations Requirement: Yes Applicability: All	The BC Employment Standards Act - this details minimum wages and rights for employees and collective agreements and bargaining. The Minister of Labour, Citizens Services and Open Government is the relevant Authority. Farm labour inspections are not required in BC. See full details in Principal 6 of this audit. The minimum wage in B.C. is \$15.20 per hour (as of June 1, 2021)	Compliant																
1.1.4	Indicator: Presence of documents demonstrating compliance with regulations and permits concerning water quality impacts Requirement: Yes Applicability: All	No water quality impacts permit is required for the Aquaculture Licence or Licence of Occupation. The farm site does not fall under any discharge laws or regulations. Per licensing requirements, sediments beneath and around the farm must be monitored at peak biomass, and data provided to DFO, and in cases where the sulphides data does meet DFO requirements, further testing must be carried out prior to restocking. Greg presented the Williamson Operational Monitoring Report (Feb 3, 2020), prepared by Mainstream Biological Consulting, and the subsequent DFO letter April 6th, 2020 indicating that the site met requirements for restocking. Section 8 of this checklist concerns discharges for the hatcheries.	Compliant																
2.1.1	Indicator: Redox potential or (E) sulphide levels in sediment outside of the Riverine Zone of Effect (RZE) following the sampling methodology outlined in Appendix I of the Salmon standard v.1.3 Requirement: Redox potential > 0 mV or Sulphide < 1,500 µM/L Applicability: All farms except, Closed production systems that can demonstrate that they collect and responsibly dispose of > 75% of solid nutrients from the production system are exempt from standards under Criterion 2.1. See Appendix W for requirements on transparency for 2.1.1, 2.1.2 and 2.1.3.	This site and its associated zone of effect is over a hard bottom. As a result, a Hard Bottom Survey is completed with a remotely operated Vehicle (ROV) the monitoring activities involved the video survey of two transects, and the DFO guidelines require a transect to establish that the zone of effect is acceptable to allow re-stocking. This transect survey is in place for the previous year class effects prior to stocking the site for the current on site stock. The survey report date was Feb 3, 2020 Mainstream biological conducted the bottom sampling Jan 23, 2020. Video was collected and the data analyzed according to the Aquaculture Activities Regulation (AAR) and the associated Monitoring Standard (Annex 7 and Annex 8). Regulates covering more than 10% of the substrate was not observed in four out of six time units or in the last two time units of a sequence at or beyond the Zone of Compliance on either of the transects. DPC was not observed within the Zone of Compliance or beyond the Zone of Compliance on either transect during the video survey at the Williamson Passage site on January 23, 2020. Letter from DFO stating that 'No further monitoring is required prior to fish entry at this facility' and dated April 6, 2020	Compliant																
2.1.2	Indicator: Faunal index score indicating good (7) to high ecological quality in sediment outside the AZE, following the sampling methodology outlined in Appendix I of the Salmon standard v.1.3 Requirement: AZI (Marine Biotic Index (AMBI)) (8) score < 3.3, or Shannon-Wiener Index score > 3, or Benthic Quality Index (BQI) score > 15, or Infaunal Trophic Index (ITI) score > 25 Applicability: All farms except, Closed production systems that can demonstrate that they collect and responsibly dispose of > 75% of solid nutrients from the production system are exempt from standards under Criterion 2.1. See Appendix W for requirements on transparency for 2.1.1, 2.1.2 and 2.1.3.	Indicator 2.1.2 is no longer applicable. Based on VR 224, issued Feb 18, 2019, authorizing reliance on the scientifically proven and federally regulated sulfide surrogates for the assessment of benthic biodiversity and benthic effects.	Compliant																
2.1.3	Indicator: Number of macrofaunal taxa in the sediment within the AZE, following the sampling methodology outlined in Appendix I of the Salmon standard v.1.3 Requirement: > 2 highly abundant (B) taxa that are not pollution indicator species Applicability: All farms except, Closed production systems that can demonstrate that they collect and responsibly dispose of > 75% of solid nutrients from the production system are exempt from standards under Criterion 2.1. See Appendix W for requirements on transparency for 2.1.1, 2.1.2 and 2.1.3.	Indicator 2.1.3 is no longer applicable. Based on VR 224, issued Feb 18, 2019, authorizing reliance on the scientifically proven and federally regulated sulfide surrogates for the assessment of benthic biodiversity and benthic effects.	Compliant																
2.1.4	Indicator: Definition of a site specific AZE based on a robust and credible (10) modeling system (11) Requirement: Yes Applicability: All farms except, Closed production systems that can demonstrate that they collect and responsibly dispose of > 75% of solid nutrients from the production system are exempt from standards under Criterion 2.1. See Appendix W for requirements on transparency for 2.1.1, 2.1.2 and 2.1.3.	DEPOMOD is required by DFO on sites in British Columbia. The DFO benthic survey requirement detailed in 2.1.1 uses DEPOMOD for survey design. The Depomod was carried out in October 2009. The model for this site was based on an average feed rate of 7.714 kg/day. These modelled zones of effect are shown on the site maps and used to establish sampling stations. Maps in place in the benthic report include the Depomod site impact zones. There has been no change to the site since it was modified, the site is in the same location, the stocking density and biomass has remained the same.	Compliant																
2.2.1	Indicator: Weekly average percent saturation (16) of dissolved oxygen (DO) (17) on farm, calculated following methodology in Appendix I of the Salmon standard v.1.3 Requirement: > 70% (18) Applicability: All farms. An exception to this standard shall be made for farms that can demonstrate consistency with a reference site in the same water body.	Weekly averages were calculated and submitted to ASC. There were no missing samples during fish production. There were no readings below 70%, the sites lowest reading was in week 41 of 2021 with a site reading of 83.7 and a reference station reading of 93	Compliant																
2.2.2	Indicator: Maximum percentage of weekly samples from 2.2.1 that fall under 2 mg/L DO Requirement: 5% Applicability: All	There have been no DO readings under 2 mg/L in the current cycle.	Compliant																

<p>2.2.3</p> <p>Indicator: For jurisdictions that have national or regional coastal water quality targets (19), demonstration through third-party analysis that the farm is in an area recently (20) classified as having "good" or "very good" water quality (21)</p> <p>Requirement: Yes (22)</p> <p>Applicability: All farms except: Closed production systems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients as well as > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exempt from standards 2.2.3 and 2.2.4.</p>	<p>Mainstream Biological Consulting undertook a water quality survey in the spring of 2021. Sampling for total nitrogen, nitrate, total phosphorus and orthophosphate concentration occurred in Esperanza Inlet, Muchalat Inlet, Jarvis Inlet, Sechart Inlet and Clo Channel in the spring of 2021. The sampling results from the spring of 2021 indicate that finfish aquaculture facilities operated by Grieg Seafood BC Ltd are located in areas of good or very good water quality as defined by the Provincial BC MoE and CCME water quality guidelines and objectives for the parameters of interest.</p>	<p>Compliant</p>										
<p>2.2.4</p> <p>Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorus (23) levels on farm and at a reference site, following methodology in Appendix I of the Salmon standard v.1.3</p> <p>Requirement: Consistency with reference site</p> <p>Applicability: All farms, except: Closed production systems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients as well as > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exempt from standards 2.2.3 and 2.2.4.</p>	<p>See 2.2.3</p>	<p>Compliant</p>										
<p>2.2.5</p> <p>Indicator: Demonstration of calculation of biochemical oxygen demand (BOD)(24) of the farm on a production cycle basis</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>BOD for the last cycle SP 2018 was 6159 ml O2/L, and this information has been submitted to ASC. Grieg has an Excel spreadsheet which was reviewed during audit and found to be providing accurate calculations of BOD.</p>	<p>Compliant</p>										
<p>2.2.6</p> <p>Indicator: Appropriate controls are in place that maintains good culture and hygiene conditions on the farm which extends to all chemicals, including veterinary drugs, thereby ensuring that adverse impacts on environmental quality are minimized</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>The company has a developed a comprehensive quality management program, Grieg Seafood Excellence, that incorporates the best practices in safety, environment and social licence, as well as elements of the BAF, ASC and OSE (Occupational Safety Standard of Excellence) standards. Procedures are in place for the storage and handling of chemicals and waste, feeding practices, fish containment, wildlife interactions and daily mortality collection and proper storage and disposal of mortalities. Drug usage is under veterinary authorization and is fully documented. Workers have been adequately trained to perform duties per company requirements.</p>	<p>Compliant</p>										
<p>2.3.1</p> <p>Indicator: Percentage of fines (25) in the feed at point of entry to the farm (26) (calculated following methodology in Appendix I of the Salmon standard v.1.3)</p> <p>Requirement: < 1% by weight of the feed</p> <p>Applicability: All farms except: To be measured every quarter or every three months. Samples that are measured shall be chosen randomly. Feed may be sampled immediately prior to delivery to farm for pens with no feed storage where it is not possible to sample on farm. Closed production systems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients and > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exempt.</p>	<p>VR26 allows the use feed fine sampling results directly from the feed mills. Two feed fines ranged from 0.0 to 0.1% in all 4 quarters of the 2021 year. Sixteen feed fines ranged from 0.0 to 0.1% in all 4 quarters of the 2021 year.</p>	<p>Compliant</p>										
<p>2.4.1</p> <p>Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that consists at a minimum of the components outlined in Appendix I.3</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>The applicant presented the document Impact Assessment Nootka - Jan 2022, an update of original assessment created in 2019. The report was prepared by Grieg's Certification Manager who is a Registered Professional Biologist. It lists several sources from which information was drawn, including the Nootka Coastal Land Use Plan, a 2005 document prepared by the provincial government. Wildlife species at risk and species of concern are covered, as well as special ecosystems and habitats including IBAs (Important Bird Areas). The assessment addresses parks and protected areas and other users of the area, and describes management strategies for protecting biodiversity and ecosystems. It contains a series of maps from provincial and federal government sources showing IBAs, Rockfish Conservation Areas, marine protected areas, critical habitats for the Southern killer whale population and marbled murrelets, commercial crab fisheries and herring spawning areas. The assessment concludes: "that there are no identified High Conservation Value Areas within the vicinity of the Nootka finfish aquaculture sea sites. The biological impact from the site is not significant and is limited to potential interactions with species at risk and there are sufficient procedures in place to minimize these interactions."</p>	<p>Compliant</p>										
<p>2.4.2</p> <p>Indicator: Allowance for the farm to be sited in a protected area (27) or High Conservation Value Areas(28) (HCVAs)</p> <p>Requirement: None (29)</p> <p>Applicability: All. The following exceptions shall be made: • For protected areas classified by the International Union for the Conservation of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes or for sustainable resource management). • For HCVAs if the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the HCVAs designation. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been identified as a HCVAs. • For farms located in a protected area if it was designated as such after the farm was already in operation and provided the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the protected area and it is in compliance with any relevant conditions or regulations placed on the farm as a result of the formation/designation of the protected area. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been protected.</p>	<p>The farm is not situated in a protected area or HCVAs (see 2.4.1). GIS files were submitted to ASC and were verified by auditor.</p>	<p>Compliant</p>										
<p>2.5.1</p> <p>Indicator: Number of days in the production cycle when acoustic deterrent devices (ADDs) or acoustic harassment devices (AHDs) were used</p> <p>Requirement: 0</p> <p>Applicability: All</p>	<p>ADDs and AHDs are prohibited under 10.2 of the Finfish Aquaculture License (Pacific Aquaculture Regulations) where it is stated: "Marine mammal acoustical deterrent devices must not be used." The auditor did not observe any ADDs or AHDs during the tour of the farm site.</p>	<p>Compliant</p>										
<p>2.5.2</p> <p>Indicator: Number of mortalities (30) of endangered or red-listed (31) marine mammals or birds on the farm</p> <p>Requirement: 0 (zero)</p> <p>Applicability: All</p>	<p>No mortalities of endangered or red-listed marine mammals or birds on the farm.</p>	<p>Compliant</p>										
<p>2.5.3</p> <p>Indicator: Evidence that the following steps were taken prior to lethal action (34) against a predator: 1. All other avenues were pursued prior to using lethal action. 2. Approval was given from a senior manager above the farm manager. 3. Explicit permission was granted to take lethal action against the specific animal from the relevant regulatory authority.</p> <p>Requirement: Yes (35)</p> <p>Applicability: All, except cases where human safety is endangered. Exception to these conditions may be made for a rare situation where human safety is endangered. Should this be required, post-mortem approval from a senior manager should be made and relevant authorities must be informed.</p>	<p>There have been no lethal actions taken against predators since the previous audit. Passive predator controls are in place. Bird nets over the top of the pens, predator netting around the main containment net, electric fencing if required to keep predators off the pen system. The SOP 04 - Wildlife Interaction, states "A marine mammal may only be culled after consultation with Grieg head office and after it has been determined by DFO that the mammal is an imminent risk for human safety or harm to the infrastructure that could result in a significant fish escape event. Any lethal actions must be made in consultation, and upon the direction of DFO (with the involvement of the Regulatory Affairs Manager)."</p>	<p>Compliant</p>										

<p>2.5.4 Indicator: Evidence that information about any lethal incidents on the farm has been made easily publicly available (36) Requirement: Yes Applicability: All</p>	<p>Records are available on the Grieg website at https://www.griegseafoodcanada.com/our-environment/information-sharing/ The SOP SW - Wildlife Interaction, states: 'All mortality incidents must be posted to the Grieg website within 30 days of the incident.'</p>	<p>Compliant</p>																																										
<p>2.5.5 Indicator: Maximum number of lethal incidents (37) on the farm over the prior two years Requirement: < 9 lethal incidents, (38) with no more than two of the incidents being marine mammals Applicability: All</p>	<p>There have been 3 lethal incidents at the farm in the last two years, this information has been provided to ASC March 2, 2021 Crow Net Entanglement September 23, 2021, Crow and Seagull, Accidental Drowning</p>	<p>Compliant</p>																																										
<p>2.5.6 Indicator: In the event of a lethal incident, evidence that an assessment of the risk of lethal incident(s) has been undertaken and demonstration of concrete steps taken by the farm to reduce the risk of future incidences Requirement: Yes Applicability: All</p>	<p>Within the SOP SW Wildlife Interactions dated April 2021, the farms are required to report mortalities and nuisance interactions with animals into the companies DATS reporting system. There is also an 'Emergency Response SOP Wildlife Interaction, dated April 2021. The DATS reporting system, for Wildlife Mortality, the form used is Investigations -Environmental, includes the details of the incident and the concrete steps taken by the farm that reduces the risk of future incidences</p>	<p>Compliant</p>																																										
<p>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 6 of the Salmon standard v.1.3 Requirement: Yes Applicability: All except farms that release no water. Farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the standards under Criterion 3.1.</p>	<p>An ABM is not required for this site. The intent of the ABM is to have full knowledge of all operations. Given the distance between the Grieg owned Farms and other farms which is about 75 km distant by water, and as all farms in the nearby area are owned by Grieg and licensed by DFO, there is full control of synchronized operations such as stocking fallowing and medicinal treatments as well as full knowledge of health on all sites.</p>	<p>Compliant</p>																																										
<p>3.1.2 Indicator: A demonstrated commitment (42) to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks Requirement: Yes Applicability: All except farms that release no water. Farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the standards under Criterion 3.1.</p>	<p>There are multiple areas of research that the company is engaged in: University of BC, University of PEI, Memorial University NF and Cargill they are looking at Complex Gill Disease in Salmon. (ongoing) The industry in BC is providing Crawford River with Sea lice data to establish trends and make details publicly available, research is finished (Mar 2022) results to be published mid/late 2022 The applicant is a member of the BC Salmon Farmers and has been and will be involved in any research conducted through that forum. VUWHPA, Yellowknife vaccine trial in summer of 2022 Pacificus, Sealice Recapture and Peroxide Dispersion Plus many others.</p>	<p>Compliant</p>																																										
<p>3.1.3 Indicator: Establishment and annual review of a maximum sea lice load for the entire ABM and for the individual farms as outlined in Appendix 6 of the Salmon standard v.1.3 Requirement: Yes Applicability: All except farms that release no water. Farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the standards under Criterion 3.1.</p>	<p>For the five active farms in Noctika Sound the maximum sea lice loads are established on the basis of the number of fish at the farm times three (i.e., DFO trigger level of 3 motile <i>Lepeophtheirus salmonis</i> per fish). The maximum sea lice load for the ABM is 1,382,047 lice (3 x 395,349 fish) and, at Williamson, 4,186,377 lice (3 x 1,395,459 fish). Lice load is reviewed annually. Sea lice load information has been submitted to ASC.</p>	<p>Compliant</p>																																										
<p>3.1.4 Indicator: Frequent (43) on-farm testing for sea lice, with test results made easily publicly available (44) within seven days of testing Requirement: Yes Applicability: All except farms that release no water. Farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the standards under Criterion 3.1.</p>	<p>Counting of sea lice is carried out according to the SW SOP on Sea Lice counting dated March 2021 and according to the DFO licence requirements or more stringent. Non-migration Window: July 1 – January 31. Sampling will be conducted once a month on every site unless an acceptable reason for not sampling is provided. Monthly sampling at each site will be conducted in three pens, a total of 20 fish per pen (site total = 60 fish) results provided to DFO by the 15th of the following month. Pre-migration Window: February 1 – February 28 (or 29). All stocked Containment Structures are assessed at least once by conducting two Counting Events (completed within a 5 day window), each of which includes a minimum of three Containment Structures. Out-migration Window: March 1 – June 30: During the period from March 1st to June 30th sampling frequency will be increased to once per week (60 fish per sample unless an acceptable reason for not sampling is provided and documented). - conduct Counting Events (counts completed within a 5 day window) on a minimum of three stocked Containment Structures within the first week of the Window, and once every week thereafter throughout the Window; and - if the sea lice threshold is exceeded: - within 7 days Upon Discovery, conduct a Counting Event on all stocked Containment Structures It further quotes that 'Data must be entered within 48 hrs of sampling (for ASC it must be posted to the website within 7 days of sampling).</p>	<p>Compliant</p>																																										
<p>3.1.5 Indicator: In areas with wild salmonids, (45) evidence of data (46) and the farm's understanding of that data, around salmonid migration routes, migration timing and stock productivity in major waterways within 50 kilometres of the farm Requirement: Yes Applicability: All farms operating in areas with wild salmonids except farms that release no water. Farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the standards under Criterion 3.1.</p>	<p>There are Seven salmonid species in the area. 5 are pacific salmon: chinook (<i>Oncorhynchus tshawytscha</i>), sockeye (<i>O. nerka</i>), Coho (<i>O. kisutch</i>), pink (<i>O. gorbuscha</i>), and chum (<i>O. keta</i>). Two trout species is the rainbow trout or steelhead (<i>O. mykiss</i>) Cutthroat trout (<i>O. clarki</i>). The sensitive period for this area is listed as March 1st to June 30th. Farm personnel are aware of the sensitive period. See 3.1.6</p>	<p>Compliant</p>																																										
<p>3.1.6 Indicator: In areas of wild salmonids, monitoring of sea lice levels on wild out-migrating salmon juveniles or on coastal sea trout or Arctic char, with results made publicly available. See requirements in Appendix III of the Salmon standard v.1.3 Requirement: Yes Applicability: All farms operating in areas with wild salmonids except farms that release no water. Farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the standards under Criterion 3.1.</p>	<p>The report Wild Juvenile Salmonid Monitoring Program 2021 Muxhalat Inlet, Noctika Sound, BC was presented. The report is dated June 21, 2021, and was compiled by Mainstream Biological Consulting. In March, April and May 2021, beach seine sampling was conducted at 11 sites in Noctika Sound, BC to capture wild juvenile salmon on behalf of Grieg Seafood Ltd. It covers monitoring data collected from 11 stations sampled during the 2021 sensitive period: 30-Mar-21, 13-Apr-21, 27-Apr-21, 11-May-21, May-28-21. Data from the 2021 report has been submitted to ASC and the full report is publicly available on the Grieg website: https://griegseafood.com/bc-wild-pacific-salmon</p>	<p>Compliant</p>																																										
<p>3.1.7 Indicator: In areas of wild salmonids, maximum on-farm lice levels during sensitive periods for wild fish (47). See detailed requirements in Appendix III of the Salmon standard v.1.3 Requirement: 0.1 mature female lice per farmed fish Applicability: All farms operating in areas with wild salmonids except farms that release no water. Farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the standards under Criterion 3.1.</p>	<p>VR or 141 approved 28.3.16 by ASC on Indicator 3.1.7. Rationale for use of VR 141 during audits is that the DFO requirements for Lice levels on farmed salmon is accepted by ASC. The DFO requirements have a</p>																																											

<p>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 (49) Applicability: All farms. Exceptions shall be made for production systems that use 100 percent sterile fish or systems that demonstrate separation from the wild by effective physical barriers that are in place and well-maintained to ensure no escapes of reared specimens or biological material that might survive and subsequently reproduce.</p>	<p>The farm produces Atlantic salmon (Salmo salar) which is a non-native species. Grieg presented the document, Timeline of Atlantic salmon on North America's Pacific Coast. The species was introduced to Washington and California in the late 1800's, and to BC as early as 1905, with numerous introductions over the following 30 years. The first BC salmon farm was established in 1972 and grew Coho, but in 1985-86, BC companies shift almost exclusively to growing Atlantic salmon. The review contains citations for all information contained therein.</p>	<p>Compliant</p>	
<p>3.2.2. Indicator: If a non-native species is being produced, evidence of scientific research (50) completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction and those results submitted to ASC for review (51) Requirement: Yes (52) Applicability: All</p>	<p>Monterey Bay Aquarium's Seafood Watch publication December 6, 2021, Pg. 9 "there is currently no evidence of establishment and Atlantic salmon are considered highly unlikely to become established in BC" The document Assessment of the Risk of Establishment of Atlantic Salmon Populations in BC as a Result of Salmon Farm Escapes (October 2020) was viewed. It was compiled by the BC Salmon Farmers Association and is review of scientific research and survey data from federal and provincial or state agencies pertinent to the establishment of Atlantic salmon in the Pacific Northwest, including the waters of British Columbia. The risk of establishment is deemed to be very low. In addition, wild juvenile salmonids surveys conducted during the out-migration period over the last several years for Grieg and other salmon companies have not detected any Atlantic salmon</p>	<p>Compliant</p>	
<p>3.2.3. Indicator: Use of non-native species for sea lice control for on-farm management purposes Requirement: None Applicability: All</p>	<p>Not being used</p>	<p>Compliant</p>	
<p>3.3. Indicator: Use of transgenic (54) salmon by the farm Requirement: None Applicability: All</p>	<p>The applicant is a member of the Canadian Aquaculture Industry Organization and they state "salmon farmer members of the Canadian Aquaculture Industry Alliance (CAIA), representing virtually all farmed salmon in Canada, do not farm or sell GE farmed salmon, and are not growing or researching GE salmon." Egg suppliers are Mowi Canada and Cermaq who are local positioned and are both BAP certified.</p>	<p>Compliant</p>	
<p>3.4.1. Indicator: Maximum number of escapes (57) in the most recent production cycle Requirement: 300 (58) Applicability: All farms. A rare exception to this standard may be made for an escape event that is clearly documented as being outside the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there were no reasonable way to predict the events that caused the episode. See auditing guidance for additional details.</p>	<p>For the most recent completed cycle (2018 YC), the final harvest count was 5,619 fish (-0.6%) less than expected. Smolts are collected daily and numbers entered to the FishTalk database. Final numbers on the site with assessment of unexplained loss is carried out following count at harvest. Net checks are carried out by divers. There are cameras in every cage with excellent resolution and they can pan, tilt and move up and down in the cages for inspection purposes. Escape monitoring data has been submitted to ASC.</p>	<p>Compliant</p>	
<p>3.4.2. Indicator: Accuracy (59) of the counting technology or counting method used for calculating stocking and harvest numbers Requirement: > 98% Applicability: All</p>	<p>Wing Tech counters have an accuracy of 98% (+/- 2%) used at the farm for onsite activities Valki Micro and Macro counters have an accuracy of 99% (+/- 1%) used at the hatcheries for delivering smolts The final counts are the harvested numbers provided by the processing plant.</p>	<p>Compliant</p>	
<p>3.4.3. Indicator: Estimated unexplained loss (60) of farmed salmon is made publicly available Requirement: Yes Applicability: All</p>	<p>ELU are calculated properly and for the previous 2018 cycle was 0.63%. This result was posted on the Grieg website Oct 2020, and has been provided to ASC as part of the transparency. https://griegseafood.com/gf/british-columbia-reporting Detailed records of all fish numbers in all categories is done using the FishTalk database. The stocking number is the vaccination count minus hatchery mortality prior to shipping, the final number is the harvest number provided by the processor.</p>	<p>Compliant</p>	
<p>3.4.4. Indicator: Evidence of escape prevention planning and related employee training, including: net strength testing, appropriate net mesh size, net traceability, system robustness, predator management, record keeping and reporting of risk events (e.g., holes, infrastructure issues, handling errors, reporting and follow up of escape events), and worker training on escape prevention and counting technologies Requirement: Yes Applicability: All</p>	<p>Net records are maintained and include the net tolls report of break strength and history of holes repaired. This is included in the Net Log Binder with the Net Maintenance Log where the dedicated hole checks are also recorded. The DPO condition of licence, 60 day hole checks have all been completed within the time period and recorded. Grieg requirement: SOP SW - Net Maintenance. Site staff will document all repairs on the FORM Net Maintenance Log. Verified by the auditor</p>	<p>Compliant</p>	
<p>4.1.1. Indicator: Evidence of traceability, demonstrated by the feed producer, of feed ingredients that make up more than 1% of the feed (65) Requirement: Yes Applicability: All</p>	<p>Grieg Farms feed suppliers are Skretting Canada, based in Vancouver, BC, and EWDS Canada, based in Surrey, BC. Both are aware of relevant ASC requirements. All feed delivery numbers are recorded into the FishTalk system by the receiving farm. The mills are both BAP-certified. Current BAP certificates for both mills expire Oct 22, 2022. Skretting Canada is also certified to the Global GAP standard, certificate expires Nov 26, 2022. The farm uses method #2 to show compliance of the feed producer. Regarding traceability of ingredients, both suppliers have provided statements: ASC Certification - Supplier Quality Assurance Letter (Skretting, Jan 27, 2021); Grieg Q4 2021 Certification Update which is a series of EWDS reports bearing various 2021 dates.</p>	<p>Compliant</p>	
<p>4.2.1. Indicator: Fishmeal Forage Fish Dependency Ratio (FFDRm) for grow-out (calculated using formulas in Appendix IV of the Salmon standard v.1.3) Requirement: < 1.2 Applicability: All</p>	<p>The percentage of fishmeal in each formulation has been provided by the feed companies for each formulation, the sources of fishmeal used and the percentage of fishmeal in each formulation that has been derived from whole fish or trimmings. Farm records for Williamson show the quantities of each formulation used for the previous cycle (2018), the FFDRm was 0.45 and eFCR was 1.27, calculations were done properly, and FFDRm was submitted to ASC.</p>	<p>Compliant</p>	
<p>4.2.2. Indicator: Fish Oil Forage Fish Dependency Ratio (FFDRo) for grow-out (calculated using formulas in Appendix IV of the Salmon standard v.1.3). Maximum amount of EPA and DHA from direct marine sources (65) (calculated according to Appendix IV of the Salmon standard v.1.3) Requirement: FFDRo < 2.52 or (EPA + DHA) < 30 g/kg feed Applicability: All</p>	<p>The feed inventory records are in the FishTalk system. The farm uses option 2 and by-products are excluded from the FFDRo calculation. The FFDRo value for the previous cycle at Williamson was 1.47</p>	<p>Compliant</p>	
<p>4.3.1. Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries(s) certified under a scheme that is an NEA member (67) and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A</p>	<p>Not required</p>	<p>N/A</p>	

<p>Indicator: Prior to achieving 4.3.1, the FishSource score (65, 66) for the fisheries from which all marine raw material in feed is derived.</p> <p>Requirement: All individual scores ≥ 6, and biomass scores ≥ 5.</p> <p>Applicability: All</p>	<p>The feed suppliers have provided FishSource scores for each species used in feed and the information has been verified by the Certification Specialist. The forage fish species involved and their FishSource scores as of Apr 23, 2021: Feed used for the 2019/2020 yr classes</p> <p>In the order presented on FishSource website: Species/Area is their management strategy precautionary? Do manager follow scientific advice? Do fishers comply? Biomass: Is the fish stock healthy? Will the fish stock be healthy in future?</p> <p>Skretting 2021 North Pacific Hake, (NE Pacific) 10/10/10/10/9.2 Atlantic Herring (Skagerrak, Kattegat & W. Baltic) 10/68/67/7.1/6.9 Sandelsi net (Central Eastern North Sea) 26/10/10/10/06 European Sprat (North Sea, Skagerrak, Kattegat) 26/26/10/9.2/6 South American Pilchard (Gulf of California) 26/26/26/26/6 Alaska Pollock (Aleutian Islands) 10/10/10/2.0 Anchoveta (Peruvian Northern-Central) 26/26/26/26/6 Gulf Menhaden (Gulf of Mexico) 26/26/26/10/9.5 Chilean Sea Mackerel (Southeast Pacific) 26/10/26/10/9.8 Pacific Thread Herring (Sonora) 26/26/26/26/10</p> <p>Ewos Jan 18, 2022 Gulf Menhaden (Gulf of Mexico) 26/26/26/10/9.5 Anchoveta (Peruvian Northern-Central) 26/26/10/26/10/10</p>	<p>Compliant</p>
<p>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</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Both Ewos and Skretting feed mills have BAP certifications and Skretting also has Global GAP (see 4.1.1). BAP and Global GAP both have a traceability component.</p>	<p>Compliant</p>
<p>Indicator: Feed containing fishmeal and/or fish oil originating from by-products (BPs) or trimmings from IUU (70) catch or from fish species that are categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species (71), whole fish and fish meal from the same species and family as the species being farmed.</p> <p>Requirement: None (72)</p> <p>Applicability: All. For species listed as "vulnerable" by IUCN, an exception is made if a regional population of the species has been assessed by the national Red List process that is managed explicitly in the same science-based way as IUCN. In cases where a National Red List doesn't exist or isn't managed in accordance with IUCN guidelines, an exception is allowed when an assessment is conducted using IUCN's methodology and demonstrates that the population is not vulnerable.</p>	<p>Skretting Canada has provided a list of all species and fishery of origin for meal and oil derived from trimmings. The Skretting ASC Certification – Supplier Quality Assurance Letter (Skretting, Jan 27, 2022) contains the following: "IUU fishing activity: Fishery material must not be from illegal, unreported and unregulated (IUU) fishing activity nor sourced from vessels officially listed as engaging in IUU fishing activity". Threatened species: Suppliers shall not process species or by-products from species that are classified as Critically Endangered or Endangered in the IUCN Red List. Species that are listed as Vulnerable are not eligible for use as by-product, unless for fisheries from a discrete sub-population assessed to be responsibly managed." Neither meal or oil are derived from species deemed vulnerable by IUCN.</p> <p>EWOS has provided a list of all species and fishery of origin for meal and oil derived from trimmings, and states in its Supplier Quality Assurance Letter for EWOS Canada Customers: (Management of Raw Materials and Feeds) (Jan 21 2022): "No fishmeal or fish oil originating from by-products or trimmings from IUU (illegal, unmanaged, unreported) catches or from species categorized as vulnerable, endangered or critically endangered according to the IUCN Red List of Threatened Species are used in EWOS Canada feeds." Based on EWOS list of raw materials, neither meal or oil are derived from species deemed vulnerable by IUCN.</p>	<p>Compliant</p>
<p>Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for marine ingredients that includes a commitment to continuous improvement of source fisheries (73)</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Skretting (Nutreco) has a supplier code of conduct that is online that includes no IUU and declares responsible sourcing and commitment to the environment, this also includes the Supplement for Marine Products which contains a section on Fishery Improvement Programmes in which all suppliers sourcing from fisheries that do not comply with the FAO Code of Conduct for Responsible Fisheries are encouraged to assist those fisheries to improve their management practices so they are able to comply. https://www.skretting.com/en-CA/sustainability/</p> <p>EWOS statements on Supplier Selection and Sustainable Sourcing of Raw Material, the Supplier Quality Assurance Letter for EWOS Canada Customers (Management of Raw Materials and Feeds) dated Jan 21, 2022 are in the audit pack dated February 2022. The Cargill (i.e., parent company) website, has Responsible sourcing and sustainability policies and information, including the EWOS document Sustainable Seafood for Future Generations under the Sustainability section, www.cargill.com</p>	<p>Compliant</p>
<p>Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed ingredients that comply with recognized crop moratoriums (76) and local laws (77)</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Skretting Canada is part of the Nutreco group and a vendor policy (Supplier Code of Conduct) is in place where all suppliers must sign applicable declarations guaranteeing source. The code contains the Supplement for Agricultural Products. http://www.skretting.com/en-ca/sustainability/responsible-sourcing/</p> <p>The EWOS Canada Supplier Quality Assurance Letter to EWOS Canada Customers (Jan 21, 2022) states: "EWOS will comply with any recognized crop moratoriums". There are policies and procedures for supplier control, monitoring and audits.</p> <p>Third-party audits of the feed suppliers include review of responsible sourcing policy and implementation, see 4.1.1</p>	<p>Compliant</p>
<p>Indicator: Percentage of soya or soya-derived ingredients in the feed that are certified by the Roundtable for Responsible Soy (RTRS) or equivalent (78)</p> <p>Requirement: 100%</p> <p>Applicability: All</p>	<p>Neither feed supplier is using soya-derived ingredients in the feeds supplied to Greg farms.</p> <p>Per Skretting ASC Compliance Letter (Jan 27, 2021): "The formulated average inclusion for soy-derived ingredients 0%."</p> <p>The Supplier Quality Assurance Letter for EWOS Canada Customers (January 21, 2022) "Currently, EWOS Canada does not use soya products in its Atlantic salmon feed production"</p>	<p>Compliant</p>
<p>Indicator: Evidence of disclosure to the buyer(s) of the status of transgenic (GMO) plant raw material, or raw material derived from transgenic plants, in the feed.</p> <p>Requirement: Yes, for each individual raw material containing > 1% transgenic content (81)</p> <p>Applicability: All</p>	<p>Email February 25, 2022, from Certification & Regulatory Affairs Manager to Greg Sales, re Notification of Transgenic Material in Feed: "There is transgenic plant raw material in the feed that our fish consume, which has been disclosed to us by the suppliers".</p> <p>Skretting: Approved ingredients include those that are classed as genetically modified. (Materials considered as GMO include canola oil and corn gluten).</p> <p>EWOS/Cargill: Apart from corn gluten meal (CGM), no transgenic raw materials or raw materials derived from transgenic material, or raw material derived from transgenic plants is used by EWOS Canada Ltd in any of its feed products. The corn gluten meal which can be used in the feed may be partially sourced from transgenic corn crops.</p>	<p>Compliant</p>
<p>Indicator: Presence and evidence of a functioning policy for proper and responsible(s) treatment of non-biological waste from production (e.g., disposal and recycling)</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>The applicants Environmental policy dated May 2019 outlines the commitments on waste. This includes:</p> <ul style="list-style-type: none"> • Minimize our environmental footprint, including reducing greenhouse gas emissions, waste and plastic that may harm nature. • Ensure proper and responsible disposal of all waste associated with our operations, practices and facilities (e.g., no ocean dumping). • To apply practices and control technologies, wherever possible, that minimize and or prevent pollution. <p>The applicants Waste Management policy (June 2019) deals specifically with waste aspects that includes: Waste Characterization, Waste Reduction, Reuse and Recycling, Off-site Disposal and Monitoring and Evaluation</p>	<p>Compliant</p>
<p>Indicator: Evidence that non-biological waste (including net pens) from grow-out site is either disposed of properly or recycled</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>During the site tour there was no evidence that non-biological waste is being handled in an irresponsible manner, storage areas were neat, waste oil is stored in designated drums. Mortalities are stored in covered tubs on a designated float. Trash and solid waste is brought to shore and taken by Rainbow Services</p> <p>The Waste management policy states: Greg will record details regarding storage and movement of waste during regular operations; each shipment of waste removed from the site will include the requisite documentation (e.g. manifests), which will ensure traceability of the material to its final destination. The auditor reviewed the site binder that contained manifests from the Noodka Sound Service Ltd. showing routine collection of the site dumpsters, pallets, bags, oil and batteries.</p> <p>The Waste management policy states: Monitoring will be completed through daily visual inspections of the waste storage areas. Storage areas will be reviewed to ensure the material segregation, storage, and handling procedures are followed and confirm zero discharge to the environment. In addition to the visual inspections, a quarterly internal audit will be conducted to ensure the effective implementation of waste handling procedures and identify opportunities for continuous improvement of the waste process stream. Each site visited also separates cans and bottles for recycling.</p>	<p>Compliant</p>

<p>4.6.1 Indicator: Presence of an energy use assessment verifying the energy consumption on the farm and representing the whole life cycle at sea, as outlined in Appendix V of the Salmon standard v.1.3 Requirement: Yes, measured in kilojoule/t fish produced/production cycle Applicability: All</p>	<p>Biomass, including mortalities produced in the last cycle at Williamson (2018) was 3,937 mt. Energy consumption for the last cycle was 6,813,910 kJ/t fish harvested. Energy use data has been submitted to ASC Grieg uses CEMAsys for the calculation of energy consumption. Quantities of diesel and propane consumed are entered to CEMAsys each month</p>	<p>Compliant</p>																																						
<p>4.6.2 Indicator: Records of greenhouse gas (GHG/BS) emissions(S6) on farm and evidence of an annual GHG assessment, as outlined in Appendix V of the Salmon standard v.1.3 Requirement: Yes Applicability: All</p>	<p>Records are maintained using the CEMAsys system. Monthly records are maintained on a site energy evaluation document. All scopes are listed and recorded. The CEMAsys reports state that sources used as a basis for calculations include: International Energy Agency (IEA/CO2E), Intergovernmental Panel on Climate Change (IPCC), UK Government, Greenhouse gas reporting: conversion factors. The Williamson GHG for the 2021 Calendar year were 896 Tco2e This information has been submitted to ASC</p>	<p>Compliant</p>																																						
<p>4.6.3 Indicator: Documentation of GHG emissions of the feed(S7) used during the previous production cycle, as outlined in Appendix V of the Salmon standard v.1.3 Requirement: Yes Applicability: All</p>	<p>The previous cycle (2018) at Williamson had 8,136-93 tons CO2 eq for feed This information has been submitted to ASC</p>	<p>Compliant</p>																																						
<p>4.7.1 Indicator: For farms that use copper-treated nets(S9), evidence that nets are not cleaned(S1) or treated in situ in the marine environment Requirement: Yes Applicability: All farms. Closed production systems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.7.</p>	<p>Grieg farms do not use copper-treated nets.</p>	<p>Compliant</p>																																						
<p>4.7.2 Indicator: For any farm that cleans nets at on land sites, evidence that net-cleaning sites have effluent treatment (S2) Requirement: Yes Applicability: All farms. Closed production systems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.7.</p>	<p>Once a farm has harvested their fish, all nets from the site are cleaned on land by Badinotti Net Services Canada Ltd. The Grieg Certification Team conducted audit of the facility October 26, 2019, and verified effluent treatment system in place. Audit report (ASC Net Service Effluent Audit) was available. A copy of the Badinotti Operational and Biosecurity Protocols and Procedures Manual was also available.</p>	<p>Compliant</p>																																						
<p>4.7.3 Indicator: For farms that use copper nets or copper-treated nets, evidence of testing for copper level in the sediment outside of the AZL, following methodology in Appendix I of the Salmon standard v.1.3 Requirement: Yes Applicability: All farms. Closed production systems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.7.</p>	<p>Grieg farms do not use copper-treated nets.</p>	<p>Compliant</p>																																						
<p>4.7.4 Indicator: Evidence that copper levels(S3) 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. Closed production systems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.7.</p>	<p>Grieg farms do not use copper-treated nets.</p>	<p>Compliant</p>																																						
<p>4.7.5 Indicator: Evidence that the type of biocides used in net antifouling are approved according to legislation in the European Union, or the United States, or Australia Requirement: Yes Applicability: All farms. Closed production systems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.7.</p>	<p>Biocides are not being used.</p>	<p>Compliant</p>																																						
<p>5.1.1 Indicator: Evidence of a fish health management plan for the identification and monitoring of fish diseases, parasites and environmental conditions relevant for good fish health, including implementing corrective action when required Requirement: Yes Applicability: All</p>	<p>The Grieg Salmonid Health Management Plan (HMP) covers both freshwater and marine operations. It covers the requirements of the Finfish Aquaculture Licence and references a comprehensive set of applicable SOPs. The plan designates the veterinarian's duties and responsibilities, including the responsibility for overseeing matters of fish health management for Grieg Seafood Canada. DATS record indicates the HMP was last reviewed and approved by Patrick Whittaker, the Grieg veterinarian 3 Sept 2021.</p>	<p>Compliant</p>																																						
<p>5.1.2 Indicator: Site visits by a designated veterinarian(S5) at least four times a year, and by a fish health manager(S6) at least once a month Requirement: Yes Applicability: All</p>	<p>There are two staff who undertake site visits including the Veterinarian. List of site visits have been kept. Qualifications were made available to the auditor for review and no concerns are raised. The sites Visitor Log was reviewed by the auditor and indicated visits at least monthly by the fish health technician (and/or) the company Veterinarian. The veterinarian Patrick Whittaker has visited the site 8 times since this year class was stocked Nov 29th 2020</p>	<p>Compliant</p>																																						
<p>5.1.3 Indicator: Percentage of dead fish removed and disposed of in a responsible manner Requirement: 100% (97) Applicability: All</p>	<p>Mortality collection occurs at least daily, 100% of mortalities are retrieved. Mortalities are stored on a designated Mort Float in sealed and water-tight totes. The full totes are removed by a vessel that delivers them to shore where they are picked up by Earthbank Resource Systems. Earthbank Resource Systems uses the material in a compost product. Auditor viewed Earthbank Resource Systems Invoice # 11199 dated 31 Oct 2021 for mortalities pick-up at various sites, 87 totes, 201.3 tons There have been no exceptional mortality events during the current stocking cycle at this site</p>	<p>Compliant</p>																																						

<p>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</p>	<p>There has not been a time when two applications of a treatment have not produced the expected effect.</p>	<p>Compliant</p>													
<p>5.3.2. Indicator: When bio-assay tests determine resistance to forming, use of an alternative, permitted treatment, or an innovative harvest of all fish on the site. Requirement: Yes Applicability: All</p>	<p>There has not been a time when two applications of a treatment have not produced the expected effect.</p>	<p>Compliant</p>													
<p>5.3.3. Indicator: Specific rotation, providing that the farm has >1 effective medicinal treatment product available, every third treatment must belong to a different family of drugs. Requirement: Yes Applicability: All</p>	<p>The site does rotate between 2 medicinal treatments. Generally the In-feed treatment Slic is used for small fish and Farmove 50 (H202 Bath) is used for larger fish. H202 is considered a pesticide and does not require a prescription. The PESTICIDE USE PERMIT No. 877-0006-19/22 authorizing the use of hydrogen peroxide in the Nootka Sound region expires Dec. 31, 2022.</p>	<p>Compliant</p>													
<p>5.4.1. Indicator: Evidence that all salmon on the site are a single-year class(112). Requirement: 100% (113) Applicability: All farms. Exception is allowed for: 1) farm sites that have closed, contained production units where there is complete separation of water between units and no sharing of filtration systems or other systems that could spread disease, or, 2) farm sites that have 92% water recirculation, a pre-entry disease screening protocol, dedicated quarantine capability and biosecurity measures for waste to ensure there is no discharge of live biological material to the natural environment (e.g. UV or other effective treatment of effluent).</p>	<p>The 2020 YC of smolts were introduced between Nov 29, 2020 and Jan 23 2021. The smolt transfer summary record indicates that 1,395,439 smolts of the 2020 YC were stocked from the Paradise Bay and Gold River and Gemas Boat Lagoon and Ocean Farms Hatcheries. The Fallow period between the 2018 YC and the 2020 YC was 165 days.</p>	<p>Compliant</p>													
<p>5.4.2. Indicator: Evidence that if the farm suspects an unidentified transmissible agent, or if the farm experiences unexplained increased mortality(114), the farm has: 1. Reported the issue to the ABM and to the appropriate regulatory authority 2. Increased monitoring and surveillance(115) on the farm and within the ABM 3. Promptly(116) made findings publicly available. Requirement: Yes Applicability: All</p>	<p>The farm has not suspected an unidentified transmissible agent in any mortality event. Fish are tested routinely each month. Samples are sent to the BC Centre for Aquatic Health Sciences (BC CAHS) located in Campbell River. No mortality event has had a statistically significant increase over background mortalities.</p>	<p>Compliant</p>													
<p>5.4.3. Indicator: Evidence of compliance(117) with the OIE Aquatic Animal Health Code(118) Requirement: Yes Applicability: All</p>	<p>The fish health management plan is consistent with the OIE animal health code. Grieg has the electronic copy of OIE Aquatic Animal Health Code Compliance 22nd Edition 2019 in DATS and the code is available to all sites. The staff are well informed and relevant policies are implemented.</p>	<p>Compliant</p>													
<p>5.4.4. Indicator: If an OIE notifiable disease(119) is confirmed on the farm, evidence that: 1. the farm, at a minimum, immediately culled the pen(s) in which the disease was detected 2. the farm immediately notified the other farms in the ABM (120) 3. the farm and the ABM enhanced monitoring and conducted rigorous testing for the disease 4. the farm promptly(121) made findings publicly available. Requirement: Yes Applicability: All</p>	<p>There have been no OIE notifiable diseases detected onsite.</p>	<p>Compliant</p>													
<p>6.1.1. Indicator: Evidence that workers have access to trade unions (if they exist and union representative(s) chosen by themselves without managerial interference) Requirement: Yes Applicability: All</p>	<p>No trade unions are present at the site. GREG Human Rights Policy - #3- Our Principles - March 10, 2021 - The ILO Declaration on Fundamental Principles and Rights at Work, which defines principles and rights: Freedom of association and the effective recognition of the right to collective bargaining. Employees, during private interviews confirmed that they signed the Contract of Employment and felt that their rights are not affected. Employees signed receiving and accepting a copy of the Employee Handbook and an effective open-door policy and signed for communication of the Human Rights Policy.</p>	<p>Compliant</p>													
<p>6.1.2. Indicator: Evidence that workers are free to form organizations, including unions, to advocate for and protect their rights. Requirement: Yes Applicability: All</p>	<p>GREG Human Rights Policy - #3- Our Principles - March 10, 2021 - The ILO Declaration on Fundamental Principles and Rights at Work - Privacy and Rights - Grieg Seafood welcomes and promotes unionization, collective bargaining, and other formal employee representation arenas according to the business culture. All our employees have the right to join or not join a labor union. All employees have access to third-party representation regardless of whether they are a union member or not. Employees, during private interviews confirmed that they signed the Contract of Employment and felt that their rights are not affected. Employees signed receiving and accepting a copy of the Grieg Human Rights Policy.</p>	<p>Compliant</p>													
<p>6.1.3. Indicator: Evidence that workers are free and able to bargain collectively for their rights. Requirement: Yes Applicability: All</p>	<p>GREG - Grieg Seafood welcomes and promotes unionization, collective bargaining, and other formal employee representation arenas according to the business culture of each of our operating countries. All our employees have the right to join or not join a labor union. All employees have access to third-party representation regardless of whether they are a union member or not. The employer has explicitly communicated a commitment to ensure the collective bargaining rights of all workers as stated in 6.1.1 & 6.1.2. The documentary evidence shows that workers are free and able to bargain collectively. Detailed in the Grieg Human Rights Policy and training records, maintained in DATS. All workers said they have no issues with exercising their freedoms.</p>	<p>Compliant</p>													
<p>6.2.1. Indicator: Number of incidences of child(123) labour(124). Requirement: None Applicability: All except: Child: Any person under 15 years of age. A higher age would apply if the minimum age law of an area stipulates a higher age for work or mandatory schooling. Minimum age may be 14 if the country allows it under the developing country exceptions in ILO convention 138.</p>	<p>Grieg Seafood - Ages of all workers stored on Human Resources management system. There are no persons employed under the age of 18 covering this audit on barge work at this site. All activities shall be conducted with respect for individuals without discrimination. Grieg Seafood do not tolerate any form of forced labor and are committed to the abolition of child labor, as noted in the Human Rights Policy, March 10, 2021. Copies of Identification are held on file for all employees and is signed and verified by Senior Management at the time of employment. Required checks of personal Social Insurance Number, which is a 9-digit number required to work in Canada. Reviewed all randomly selected personnel in the scope of the audit with the check of hire date and age, was found that youngest of the sampled was age 18 at time of hire.</p>	<p>Compliant</p>													
<p>6.2.2. Indicator: Percentage of young workers(125) that are protected(126). Requirement: 100% Applicability: All</p>	<p>Ages of all workers stored on Human Resources management system. Age of hire is at a minimum age of 18 years of age, nothing younger. At time of hire, two forms of identification is reviewed, which is normally the SIN Number and another form of ID, such as a Drivers License or Passport. Facility will not hire anyone under age 16, but for barge work, it will be 18 years old as a minimum age. No young workers employed at the time of the audit. During tours of the areas of work, no workers had the appearance of being under age, and review of personnel files confirmed compliance. Youngest randomly sampled employee was age 18 at the time of hiring.</p>	<p>Compliant</p>													
<p>6.3.1. Indicator: Number of incidences of forced(129), bonded(130) or compulsory labour. Requirement: None Applicability: All</p>	<p>All employees are provided with contracts of employment, that are signed by both the employee and the company. This was confirmed during the private interviews of randomly selected employees. Employees can keep a copy of the contract and the employer retains a signed copy. Original identity documents are not kept by the company and are returned to the employees after verification. Documentation checks confirmed that all working hours are performed on a voluntary basis on a schedule and rotating basis. The employer does not withhold any part of workers' salaries, benefits, property or documents to oblige them to continue working for the employer. As noted in the Grieg Employee Handbook and Grieg Human Rights Policy that all employees are free to leave upon reasonable notice. All employees understand and comply with all applicable laws and international conventions on labor practices to which Grieg Seafood subscribes and supports. No employees are paying debt. The randomly selected employees confirmed all the above during the interview process with no issues raised.</p>	<p>Compliant</p>													

<p>8.1</p> <p>Indicator: Compliance with local and national regulations on water use and discharge, specifically providing permits related to water quality</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>4 Hatcheries were used for stocking this site. Gold River Hatchery owned by Grieg, Lena Creek for whom Grieg is the only customer and the Cermaq's Boot Lagoon Hatchery and Ocean Farms Hatchery</p> <p>Grieg: Gold River Hatchery: Freshwater/Land-based Aquaculture Licence Under the Fisheries Act, Licence No. AQFW 115270 2015/2024, issued by DFO and expiring June 18, 2024.</p> <p>Permit PES313 issued by the BC Ministry of Environment, Lands and Parks specifying effluent volume and load limits and requiring annual reporting of monitoring data.</p> <p>Lena Creek Hatchery (Hotham Sound Hatchery/Paradise Trading Corporation): Freshwater/Land-based Aquaculture Licence Under the Fisheries Act, Licence No. AQFW 112782 2015/2024, issued by DFO and expiring June 18, 2024.</p> <p>Permit PES138 issued April, 2017 by the BC Ministry of Environment, Lands and Parks specifying effluent volume and load limits and requiring annual reporting of monitoring data.</p> <p>Cermaq Boot Lagoon Hatchery: Freshwater/Land-based Aquaculture Licence Under the Fisheries Act, Licence No. AQFW 115274 2015/2024, issued by DFO and expiring June, 2024.</p> <p>Permit PES311 issued by the BC Ministry of Environment, Lands and Parks specifying effluent volume and load limits and requiring annual reporting of monitoring data.</p> <p>Cermaq, Ocean Farms Hatchery: Freshwater/Land-based Aquaculture Licence Under the Fisheries Act, Licence #: AQFW 115268 2015/2024 Exp 06/24</p> <p>Discharge Permit #: 7564 issued by the BC Ministry of Environment, Lands and Parks specifying effluent volume and load limits and requiring annual reporting of monitoring data.</p>	<p>Compliant</p>
<p>8.2</p> <p>Indicator: Compliance with labour laws and regulations</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>All laws and regulations are maintained by all noted in the reviewed documentation.</p>	<p>Compliant</p>
<p>8.3</p> <p>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</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>The Biodiversity Impact Assessment Update Gold River Hatchery (April 2021) prepared by Mainstream Biological Consulting indicates: "The evaluation of potential impacts to biodiversity relating to the fish production operation at the Gold River Hatchery operated by Grieg Seafood revealed no significant concerns."</p> <p>The Biodiversity Impact Assessment HOTHAM SOUND HATCHERY (DECEMBER 2020) (aka Lena Creek, Paradise Bay) prepared by Mainstream Biological Consulting indicates: "The evaluation of potential impacts to biodiversity relating to the fish production operation at the Hotham Sound Hatchery operated by Paradise Trading Corporation revealed no significant concerns."</p> <p>FWP Appendix V - AIC Declaration Letter for Cermaq Canada Smolt Customers, dated January 1, 2022. "The potential impact on biodiversity and nearby ecosystems has been assessed and plans have been implemented to address any potential impacts identified by the assessments."</p>	<p>Compliant</p>
<p>8.4</p> <p>Indicator: Maximum total amount of phosphorus released into the environment per metric ton (mt) of fish produced over a 12-month period (see Appendix VIII of the Salmon Standard v.1.3)</p> <p>Requirement: 4 kg/mt of fish produced over a 12-month period</p> <p>Applicability: All Smolt Producers</p>	<p>Under VR 471, the Gold River Hatchery is excluded from the requirements of Indicator 8.4 as their effluent is discharged to the marine environment.</p> <p>Grieg Lena Creek: Phosphorus Calculation - 2021 was reviewed by the auditor, Total Phosphorus released per weight of fish produced in 2021 was 1.451kg/mt fish production.</p> <p>Cermaq Boot Lagoon Hatchery: Phosphorus Calculation - 2021-2022 was provided to the auditor, Total Phosphorus released per weight of fish produced in 12-month period was 3.90 kg/mt fish production.</p> <p>Cermaq Ocean Farms Hatchery is excluded from the requirements of Indicator 8.4 as their post-treatment effluent discharge is by infiltration to ground through settling ponds and infiltration wells.</p>	<p>Compliant</p>
<p>8.5</p> <p>Indicator: If a non-native species is being produced, the species shall have been widely commercially produced in the area prior to the publication(154) of the ASC Salmon Standard</p> <p>Requirement: Yes (155)</p> <p>Applicability: All Smolt Producers, exceptions shall be made for production systems that use 100 percent sterile fish or systems that demonstrate separation from the wild by effective physical barriers that are in place and well-maintained to ensure no escapes of reared specimens or biological material that might survive and subsequently reproduce.</p>	<p>The first BC salmon farm was established in 1972 and as the industry grew it transitioned from growing Pacific Salmon to growing Atlantic salmon almost exclusively by 1985-86.</p>	<p>Compliant</p>
<p>8.6</p> <p>Indicator: Maximum number of escapes(156) in the most recent production cycle</p> <p>Requirement: 300(157) fish</p> <p>Applicability: All Smolt producers. 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 event 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.</p>	<p>There have not been any escapes from the smolt producing facilities at Lena Creek or Cermaq's Boot Lagoon, Ocean Farms Hatcheries.</p> <p>However 1 x 5gr. fish was reported on Aug 3 2021 to be outside the Gold River Hatchery in the effluent stream this fish was recovered as a mort on Aug 6th. The report to DFO " a singular fish was located in part of the effluent system beyond the boundary of the hatchery. At this time there is no obvious route that the fish may have taken to leave the facility and further investigation is ongoing. The Hatchery installed a fine mesh net further down the effluent stream and monitored it for 2 weeks, no other fish were found.</p>	<p>Compliant</p>
<p>8.7</p> <p>Indicator: Accuracy(158) of the counting technology or counting method used for calculating the number of fish</p> <p>Requirement: >99%</p> <p>Applicability: All Smolt Producers</p>	<p>The Gold River, Lena Creek and Cermaq Hatcheries use the Vain Counter (micro and macro) accuracy is stated as >99%.</p>	<p>Compliant</p>
<p>8.8</p> <p>Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from production (e.g., disposal and recycling)</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>The Gold River, Lena Creek and Cermaq Hatcheries are certified to the Global Seafood Alliance's Best Aquaculture Practices Hatchery Standard (BAP) and as such have practices in place for proper storage and disposal of all waste.</p>	<p>Compliant</p>
<p>8.9</p> <p>Indicator: Presence of an energy-use assessment verifying the energy consumption at the smolt production facility (see Appendix V subsection 1 of the Salmon Standard v.1.3 for guidance and required components of the records and assessment)</p> <p>Requirement: Yes, measured in kilopoules/metric fish/production cycle</p> <p>Applicability: All Smolt Producers</p>	<p>Full records on all energy use is done monthly. The records presented here are for the last year class of fish that are a complete cycle which was, Jan - Dec 2023. The applicant also reports annual consumption and emission. The recording of the energy use at hatcheries is done in the same manner as for the marine farms (see 4.6.1). energy use is calculated and recorded monthly, annually and at the end of the production cycle.</p> <p>Gold River: Total energy consumption (kj): 48,464,632,994.4 kj Lena Creek: Total energy consumption (kj): 0 kj as the site produces its own electricity using a water turbine and is self-sufficient. Cermaq Boot Lagoon Hatchery: 19,850,500,000 kj Cermaq Ocean Farms Hatchery: 11,727,860,000 kj</p> <p>Gold River: Total kj/ton production 117,918,815.072kj Lena Creek: Total kj/ton production 0 kj as the site produces its own electricity using a water turbine and is self-sufficient. Cermaq Boot Lagoon Hatchery: Total kj/ton production 104,460,000 Cermaq Ocean Farms Hatchery: Total kj/ton production 73,470,000</p>	<p>Compliant</p>

<p>Indicator: Records of greenhouse gas (GHG) emissions(160) at the smolt production facility and evidence of an annual GHG assessment (See Appendix V of the Salmon standard v.1.3)</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>GHG emissions are calculated, recorded and reported using CERMAys technology (see 4.6.2).</p> <p>Jan 1 - Dec 31, 2021: Gold River Hatchery: 2493 tonnes CO2e Lena Creek: 0 kg/CO2 equivalents as the site produces its own electricity from water turbine. Cermaq Boot Lagoon Hatchery: 75,295 tonnes CO2e Cermaq Ocean Farms Hatchery: 39,782 tonnes CO2e</p>	<p>Compliant</p>
<p>Indicator: Evidence of a fish health management plan, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>Grieg provided the auditor with their Health Management Plan (HMP) – Version 2.0 February 2020, signed March 11 2021 by the designated Veterinarian Patrick Whittaker for the identification, monitoring and response to fish diseases and parasites.</p> <p>Lena Creek supplied their Salmonid Health Management Plan Issue Date : May 2018, signed February 24, 2021 by the designated Veterinarian Patrick Whittaker for the identification, monitoring and response to fish diseases and parasites.</p> <p>FWP Appendix V - ASC Declaration Letter for Cermaq Canada Smolt Customers, dated January 1, 2022. "Cermaq Canada maintains a well-functioning Fresh Water Program under its ISO certified Integrated Management System. Section 2.0 - Fish Health is overseen by a designated Veterinarian for the identification, monitoring and response to fish diseases and parasites."</p>	<p>Compliant</p>
<p>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(161)</p> <p>Requirement: 100%</p> <p>Applicability: All Smolt Producers</p>	<p>All smolts introduced to the site were vaccinated. Vaccination is not mandatory but is the common practice. FishTalk records show the smolts entered at the farm were vaccinated against various diseases¹. All hatcheries have different vaccination regimes which may include: furunculosis, vibriosis, cold water vibriosis, infectious haemopoietic necrosis, winter sores and enteric redmouth.</p> <p>Smolts from the Grieg Gold River Hatchery were vaccinated with Alpha Dip ERM Salar, APEX + AIS-3 Smolts from the Lena Creek Hatchery were vaccinated with Alpha Dip ERM Salar, Apeh - BHN, APEX + AIS-3 Smolts from the Cermaq, Boot Lagoon and Oceans Hatcheries were vaccinated with Alphaject Micro 4, APEX + AIS-3, APEX + AINMicro, Ermozon</p>	<p>Compliant</p>
<p>Indicator: Percentage of smolt groups(162) tested for select diseases of regional concern prior to entering the grow-out phase on Farm(163)</p> <p>Requirement: 100%</p> <p>Applicability: All Smolt Producers</p>	<p>Fish must be tested prior to movement, these diseases are listed in Appendix III of the Freshwater Aquaculture License issued by DFO, The Centre for Aquatic Health Services (CAHS) and the Animal Health Centre (AHC) are utilized for testing the fish prior to transfer. The auditor reviewed Hatchery transfer records which reference the testing and provide attestations that there have been no diseases of regional concern or CRA reportable or immediately notifiable diseases.</p>	<p>Compliant</p>
<p>Indicator: Detailed information, provided by the designated veterinarian, of all chemicals and therapeutics used during the smolt production cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated and against which diseases, proof of proper dosing and all disease and pathogens detected on the site</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>The Gold River, Lena Creek Hatcheries had not treated any of the delivered smolts with chemicals or therapeutics at their hatchery.</p> <p>FWP Appendix V - ASC Declaration Letter for Cermaq Canada Smolt Customers, dated January 1, 2022. "Documents detailed information of all chemicals and therapeutics used during the smolt production cycle including amounts used, dates used, fish groups treated and against which diseases, proof of proper dosing and all diseases and pathogens detected on site."</p>	<p>Compliant</p>
<p>Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned(164) in any of the primary salmon producing or importing countries(165)</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>The Gold River, Lena Creek hatcheries had not treated any of the delivered smolts with banned antibiotic or chemicals, Grieg maintains a table of banned antibiotic and chemicals, as well as permitted antibiotics and chemicals and allowable levels.</p> <p>FWP Appendix V - ASC Declaration Letter for Cermaq Canada Smolt Customers, dated January 1, 2022. "Complies with OIE Aquatic Animal Health Code and the WHO list of antimicrobials critically important for human health, as per each facility's Freshwater/Land-based Aquaculture License under the Fisheries Act, Fish Health Management Plan Section 7 Fish Health Appendix VIII"</p>	<p>Compliant</p>
<p>Indicator: Number of treatments of antibiotics over the most recent production cycle</p> <p>Requirement: <3</p> <p>Applicability: All Smolt Producers</p>	<p>The Gold River, Lena Creek hatcheries had not treated any of the delivered smolts with antibiotic on the 2020 YC.</p> <p>FWP Appendix V - ASC Declaration Letter for Cermaq Canada Smolt Customers, dated January 1, 2022. "Does not exceed 3 antibiotic treatments over the most recent hatchery production cycle"</p>	<p>Compliant</p>
<p>Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the WHO (166)</p> <p>Requirement: None (167)</p> <p>Applicability: All Smolt Producers</p>	<p>No antibiotics listed as critically important by the WHO are used. See 8.16</p>	<p>Compliant</p>
<p>Indicator: Evidence of compliance(168) with the OIE Aquatic Animal Health Code(169)</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>The Gold River Hatchery is part of Grieg Canada. The OIE Aquatic Animal Health Code is available online in DATS for Grieg. Relevant staff know how to locate it. The fish health team are the most relevant and the Head was interviewed during the audit.</p> <p>The contracted Lena Creek Hatchery has its own FHP and Section 2 HEALTH CONCEPTS & REQUIRED ELEMENTS demonstrate compliance to the requirements of the OIE Aquatic Health Code.</p> <p>FWP Appendix V - ASC Declaration Letter for Cermaq Canada Smolt Customers, dated January 1, 2022. "Complies with OIE Aquatic Animal Health Code and the WHO list of antimicrobials critically important for human health, as per each facility's Freshwater/Land-based Aquaculture License under the Fisheries Act, Fish Health Management Plan Section 7 Fish Health Appendix VIII"</p>	<p>Compliant</p>
<p>Indicator: Evidence of company-level policies and procedures in line with the labour standards under 6.1 to 6.11</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>Grieg owns the Gold river hatchery and contracts Paradise Bay Hatchery. They operate under the same conditions as detailed in Section 6 on the marine sites are applied to the hatchery. Cermaq Hatcheries operates under the same labor laws and regulations, similar to Grieg Seafood BC, as legislated in the Province of BC. They adhere to their corporate policies." Cermaq Policies: https://www.cermaq.com/about-us/policies</p>	<p>Compliant</p>
<p>Indicator: Evidence of regular consultation and engagement with community representatives and organizations</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>Grieg has a field office in Gold River with Grieg personnel staffing, and has a strong presence in the Gold River community by making contributions in donations or other sponsorships of activities or events in the area. Grieg is also a member of the Nookla Sound Watershed Society. Review of on-going meetings and communication as provided in 2021 and 2022.</p>	<p>Compliant</p>
<p>Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>See Section 7 – Complaints policy/ no complaints to date.</p>	<p>Compliant</p>
<p>Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>Gold River Hatchery is operating in Mowashahit Muchahabé territories. There is a 25-year agreement in place with the Nation for the sea sites. Revisions are currently being negotiated and include conditions regarding the hatchery. Applications to DFO and MoI have been shared with the Nation in 2021. Williamson Site is provided with stock from this Hatchery.</p>	<p>Compliant</p>
<p>Indicator: Where relevant, evidence that the farm has undertaken proactive consultation with indigenous communities</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>By holding federal aquaculture licenses for its facilities, it demonstrates that the hatcheries have satisfied its duty to consult with indigenous communities.</p>	<p>Compliant</p>

<p>8.25</p> <p>Indicator: Allowance for stocking smolts produced in cage culture Requirement: Permitted only if supplying farms are 1) operated in a region where indigenous salmonids are present or the same species being cultivated and 2) the farm is certified to the ASC Freshwater Trout Standard Applicability: open (net-pen) production of smolt</p>	<p>The hatcheries that supplied this farm are land-based tank operations.</p>	<p>Compliant</p>																					
<p>8.26</p> <p>Indicator: Water quality monitoring matrix completed and submitted to ASC (see Appendix VIII of the Salmon standard v.1.3) Requirement: Yes(174) Applicability: open (net-pen) production of smolt</p>	<p>The hatcheries that supplied this farm are land-based tank operations.</p>	<p>Compliant</p>																					
<p>8.27</p> <p>Indicator: Minimum oxygen saturation in the outflow (methodology in Appendix VIII of the Salmon standard v.1.3) Requirement: 60%(172, 173) Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems</p>	<p>This indicator does not apply to the Gold River Hatchery as effluent discharges to the marine environment. The Lena Creek hatchery Monitors the effluent monthly with morning afternoon readings. In 2021 the lowest reading was in June with the morning reading at 65%, the lowest daily avg was in May at 69% saturation The Cermaq Best Lagoon Hatchery monitors the effluent with monthly readings. In 2021 the lowest reading was in June with the morning reading at 65%, the lowest daily avg was in April at 90% saturation Cermaq Ocean Farms Hatchery is excluded from the requirements of this indicator as their post-treatment effluent discharge is by infiltration to ground through settling ponds and infiltration wells.</p>	<p>Compliant</p>																					
<p>8.28</p> <p>Indicator: Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic health that is similar or better than surveys upstream from the discharge (methodology in Appendix VIII of the Salmon standard v.1.3) Requirement: Yes Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems</p>	<p>This indicator does not apply to the Gold River Hatchery as effluent discharges to the marine environment. The Lena Creek hatchery has only 40m between the effluent stream discharge and the Marine environment. An Examination of Macrobenthic Invertebrate Community Health Downstream of Effluent Discharge from the Hotham Sound Hatchery, Lena Creek, BC, July 2020 concluded the effluent is considered to have a "Low Impact" (category 2, Table 6) at 60m in July 2020. The report shows that there are more species of invertebrate downstream than upstream. FWP Appendix V - ASC Declaration Letter for Cermaq Canada Smolt Customers, dated January 1, 2022. "Macro-invertebrate surveys have been conducted downstream from the hatchery's effluent discharge to demonstrate benthic health that is similar or better than surveys upstream from the discharge. This methodology is described in ASC Appendix VIII-3. Consistent good results have been observed for 3 years and sampling has been reduced to once every two years." Cermaq Ocean Farms Hatchery is excluded from the requirements of this indicator as their post-treatment effluent discharge is by infiltration to ground through settling ponds and infiltration wells.</p>	<p>Compliant</p>																					
<p>8.29</p> <p>Indicator: Evidence of implementation of biosolids (sludge) Best Management Practices (BMPs) (Appendix VIII of the Salmon standard v.1.3) Requirement: Yes Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems</p>	<p>At Gold River Hatchery, biosolids are separated by drum filters and settling pond, and sludge is removed on a monthly basis by Walco Industries, who transports the material to Vancouver Island Renewable Resources Ltd, Campbell River. HOTHAM HATCHERY SOP X-X - BIOSOLIDS MANAGEMENT dated March 2021 (aka Lena Creek) indicates the settling ponds are dewatered as required. The resulting sludge is used on the orchards or is piled along the pond edge where it is allowed to compost and is then used in the site housing gardens. Cermaq Best Lagoon Hatchery and Ocean Farms Hatchery are certified to the Global Seafood Alliance's Best Aquaculture Practices Hatchery Standard (BAP) and as such have practices in place for proper storage and disposal of all waste, including sludge.</p>	<p>Compliant</p>																					

Summary of Standard Non Conformities (NC)

Standard: Salmon
Version: 1.3

NC Type	NC Totals
Major	0
Minor	0
Total	0

Note: Unique NC codes can be entered in column A - All other data fields in this summary worksheet populate automatically

NC Code (CAB)	Indicator Number	Indicator Text	Audit Evidence	Overall Indicator evaluation	Description, justification and conclusion for the evaluation decision	Date of NC detection	Deadline for NC close-out	Actual date of close-out	NC Status	VR submitted	Status of submitted VR	VR used	Q&A submitted/used	Root cause analysis	NC correction	NC Corrective action	Auditor evaluation	Extension justification	New deadline for NC close-out	Notes
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