

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.

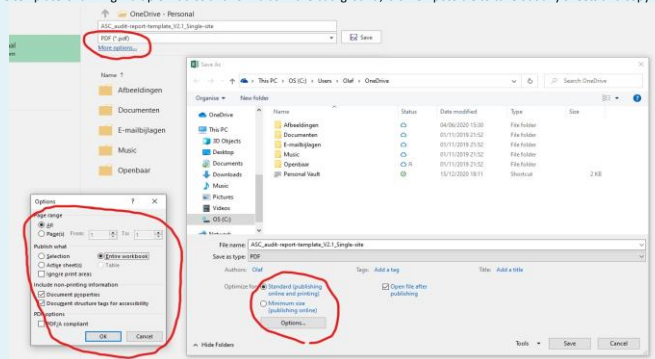
To save the full excel document as a pdf, please follow these steps:

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"](#)

Audit Announcement (Form 3)

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

1. General, client/CAR information

1.1 Document Type	Audit announcement
1.2 Document language	English
1.3 Second document language	
1.4 Unit of certification type	Single Site
1.4.1 Company name	Greg Seafood BC Ltd.
1.4.2 UOC name	Muchalat First North
1.5 Country where UOC is located	Canada
1.6 ASC Standard	Salmon
1.7 Standard version	1.3
1.8 Certification process is subject to CAR version	2.2
1.9 Name of the Conformity assessment body (CAR)	SGS Nederland BV
1.15 Client contact person - from the UOC	Kristin
1.16 Surname	Storoy
1.17 Position in the UOC (job title)	Certification Manager
1.18 Email address	kristin.storoy@gregseafood.com
1.19 Phone number	2502860838 Ext. 148
1.20 Other means of contact e.g. Skype	

2. Audit information

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

2.2 Activities covered under the scope of the certification and under the scope of the audit.		Under scope of certification		Under scope of this audit		Notes
Activities in the table equal to final product only.						
2.2.1	Steeking	Covered		Covered		
2.2.2	Netting	Covered		Covered		
2.2.3	Salting/Dry	Covered		Covered		
2.2.4	Transferring	Covered		Covered		
2.2.5	Wetnet	Covered		Covered		
2.2.6	Vacuumation	Covered		Covered		
2.2.7	Flake/fin	Covered		Covered		
2.2.8	Transportation	Covered		Covered		
2.2.9	Storage (if present at farm)	Not Covered		Not Covered		
2.2.10	Processing (if present at farm)	Not Covered		Not Covered		
2.2.11	Freezing (if present at farm)	Not Covered		Not Covered		
2.2.12	Other (Please describe)					

2.3 Certification cycle	1
2.4 Audit type	Surveillance audit
2.5 Audit number in certification cycle	9
2.6 Will harvesting be witnessed during audit?	Yes
2.7 If harvest is NOT witnessed, please justify:	It is intended to witness harvest
2.7 Audit conducted (On-site/Remote)	On-site

Please indicate the hours expended by the different audit entities in the table below, separated by the hours spent on the activities by the environmental and social auditor(s).

2.8		2.9	2.10
Time allocated to audit activities		Social Auditor(s)	Environmental Auditor(s)
Off-site activities		20	44
On-site activities		40	64
TOTAL man-days		75	115

2.11 Audit team and other involved persons		2.12	2.13	2.14	2.15
Surname		First name	Role	Expertise needed for the audit (Required for technical experts only)	Person on-site or remote?
Beck	Howard		Audit team leader		On-site
Johnson	Robert		Social Auditor		Remote

3. Site information

3.2 Site name	3.3 Ownership	3.4 Primary culture species	3.5 Cycle duration	3.13 Latitude (N/S 00.000000°)	3.14 Longitude (E/W 00.000000°)	3.15 Production system*	3.16 Number of production units	3.17 Start date of audit	3.18 End date of audit
Muchalat North	Owned	Atlantic salmon (Salmo salar)	Long cycle species (>6 months)	49.643955	-126.476220	Cage - square steel	14	Wednesday, March 16, 2022	Friday, March 25, 2022

4. Stakeholder engagement

4.1 Name of Company/Organisation if applicable	4.2 Contact person - First name	4.3 Contact person - Surname	4.4 Country where stakeholder is based	4.5 Email address of contact person/ stakeholder	4.6 Stakeholder type	4.7 If stakeholder type "Other" was selected, what type?	4.8 Contact date	4.9 Did the stakeholder submit comments?	4.10 Stakeholder comments (note to what ASC standard indicator number?)
Mowachahit Muchalat First Nation			Canada		Other	First Nation			
Nootka Sound Watershed Society, West Coast Marine Trails			Canada		NGO - Environmental org.				
Tahis Salmon Enhancement Society			Canada		NGO - Environmental org.				
Village of Gold River			Canada		Government	Municipal Government			
Nootka Marina Adventures			Canada		Other	Industry			
Westview Marine			Canada		Other	Industry			
Cougar Creek Resort			Canada		Other	Industry			
Moschoa Bay Resort			Canada		Other	Industry			
Air Nootka			Canada		Other	Industry			
Nootka Sound Service - Nootka Sound Marine Freight			Canada		Other	Industry			
Living Oceans Society			Canada		NGO - Environmental org.				

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.
Muchalat Inlet North
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	A0005763	
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	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? Yes

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
50001899	Michelat North	Owned	Atlantic salmon (Salmo salar)		49.643955	-126.476220	Cages - square steel	14.000000	Monoculture	Intensive		16/03/2022	25/03/2022	27-Sep-22	2/16/2022	Harvest	GAA/BAP		No		2020	Actual volume	2,670,000		2670			

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
S0001899	Muchalat North	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.

7. ASX CMI 37.4.3.2 Substitution risk assessment

Category	Assessment
Product	High
Market	High
Company	High
Operational	High
Financial	High
Other	High

7.1. The issuer is a...
7.2. The issuer is a...
7.3. The issuer is a...

7.4. The issuer is a...
7.5. The issuer is a...

7.6. The issuer is a...
7.7. The issuer is a...

ASX CMI 37.4.3.6 Product flow, traceability and segregation

ASX CMI 37.4.3.6 Product flow, traceability and segregation

Product	Source	Destination	Flow	Traceability	Segregation
Product A	Source 1	Destination 1	Flow 1	Traceability 1	Segregation 1
Product B	Source 2	Destination 2	Flow 2	Traceability 2	Segregation 2
Product C	Source 3	Destination 3	Flow 3	Traceability 3	Segregation 3
Product D	Source 4	Destination 4	Flow 4	Traceability 4	Segregation 4
Product E	Source 5	Destination 5	Flow 5	Traceability 5	Segregation 5

7.8. The issuer is a...
7.9. The issuer is a...

ASX CMI 37.4.3.7 Traceability determination

ASX CMI 37.4.3.7 Traceability determination

ASX CMI 37.4.3.8 Rules of Use / Pooling

ASX CMI 37.4.3.8 Rules of Use / Pooling

ASX CMI 37.4.3.8.2 The pool from which assets of liability is required to...

ASX CMI 37.4.3.8.2 The pool from which assets of liability is required to...

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	Actual volume	Actual volume	Actual volume	Actual volume
8.2	ASC-certified production volume (in Kg)	2,002,500	667,500	0
8.3	Non ASC-certified production volume (in Kg)	0	0	0
8.4	Dispatched or sold as ASC-certified Volume (in Kg)	2,002,500	667,500	0
8.5	Dispatched or sold as non ASC-certified Volume (in Kg)	0	0	0

Decision	
8.6	<p>Certification decision</p> <p>All elements in the standard and guidance documents have been completed. There was 1 minor NC raised that was closed during this audit process, and 1 major that relates to the previous production cycle that was raised and closed during the previous audit process. However, as the current cycle was not completed at this point it has been included for transparency. 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 2/10/2020
8.8	Certificate valid till 2/9/2023
8.9	Eligibility date

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

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 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	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				
11.1	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) British Aquaculture Licence AOPF 120999 issued by the Department of Fisheries and Oceans (DFO), expiring June 30, 2022. 2) Licence of Occupation re Land File No. 1411168 was shown as issued April 4, 2013, Status Active on government online system, GATOR (General Access to Online Requests). 3) Campbell River Business Licence issued March 15, 2022 exp Feb 27, 2022. DFO auditing and enforcement activities confirm ODF on ordinals, log monitoring records, FHMP compliance, benthic surveys and site debris. The farm is not located in any national preservation areas.	Compliant																
11.2	Indicator: Presence of documents demonstrating compliance with all tax laws Requirement: Yes Applicability: All	Grieg Seafood is a registered company operating under tax number GST 13887 6479 RT001, confirmed in Canada Revenue Agency letter of Feb 18, 2021. The company is also incorporated in the Province of British Columbia under incorporation # BC147456. The City of Campbell River Business License is renewed annually 100545, Exp. Feb 27, 2023. Specific to the Muchalat North site: (1) 2021 Property Tax Notice – Account Number RPT 1080-812 (BC Ministry of Finance); (2) Crown Land Invoice # 7752393 (BC Ministry of Forests, Lands and Natural Resources).	Compliant																
11.3	Indicator: Presence of documents demonstrating compliance with all relevant national 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																
11.4	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. Grieg presented the Muchalat North Operational Monitoring Report (Jan 13, 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 discharge for the hatcheries.	Compliant																
2.1.1	Indicator: Redox potential (or 5) sulphide levels in sediment indicator of the Atomsch Zone of Effect (AZE) (1), following the sampling methodology outlined in Appendix 1 of the Salmon standard v.1.3 Requirement: Redox potential > 0 mV or Sulphide < 1500 µMol/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 VI 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 Jan 12, 2020. Mainstream biological conducted the bottom sampling Jan 8, 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). Benthos covering more than 50% of the substrate was not observed in four out of six time units in the last two time units of a sequence at or beyond the Zone of Compliance on either of the transects. DFO was not observed within or beyond the Zone of Compliance on 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 1 of the Salmon standard v.1.3 Requirement: AZTI Marine Biotic Index (AMBI) score < 3.3, or Shannon-Weaver Index score > 3, or Benthic Quality Index (BQI) score > 35, 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 VI 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 1 of the Salmon standard v.1.3 Requirement: > 2 highly abundant (9) 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 VI 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) modelling 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 VI for requirements on transparency for 2.1.1, 2.1.2 and 2.1.3.	DEPMOD is required by DFO on sites in British Columbia. The DFO benthic survey requirement detailed in 2.1.1 was DEPMOD for survey design. The Depomod was carried out in March 2020. The model for this site was based on an average feed rate of 6328g/ha. These modelled zones of effect are shown on the site maps and used to establish sampling stations. Maps in place in the benthic report includes the Depomod site impact zones. There has been no change to the site since it was modelled, 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 1 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 42 of 2021 with a site reading of 76.3 and a reference station reading of 86.	Compliant																
2.2.2	Indicator: Maximum percentage of weekly samples from 2.2.1 that fail under 2 mg/L DO Requirement: 5% Applicability: All	There have been no DO readings under 2 mg/L in the current cycle.	Compliant																
2.2.3	Indicator: For jurisdictions that have national or regional coastal water quality targets (19), demonstration through third-party analysts that the farm is in an area recently (20) classified as having "good" or "very good" water quality (21) Requirement: Yes (22) 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 2.1.3 and 2.2.3.	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 Clio 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.	Compliant																

<p>2.2.4</p> <p>Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous (23) levels on farm and at a reference site, following methodology in Appendix A 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 5583 mg 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 maintain positive and hygienic conditions on the farm when it comes to 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 license, as well as elements of the BAP, ASC and OSH (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>2.2.1</p> <p>Indicator: Percentage of fines (25) in the feed at point of entry to the farm (25) consistent following methodology in Appendix A of the Salmon standard v.1.3</p> <p>Requirement: < 5% 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 sites with no feed storage where it is not possible to sample on farm. Closed production systems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients and > 50% of dissolved nutrients through biofiltration, settling and/or other technologies) are exempt.</p>	<p>VR246 allows the use feed fine sampling results directly from the feed mills</p> <p>Exact feed fines ranged from 0.0 to 0.1% in all 4 quarters of the 2021 year</p> <p>Screening 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 contains at minimum the components outlined in Appendix B3</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 2001 document prepared by the provincial government. Wildlife species at risk and species of concern are covered, as well as special ecosystems and habitats including BAs (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 BAs, 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 site. 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 I or II (These are areas preserved primarily for their landscapes or for sustainable natural 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 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).</p> <p>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) while 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 (32) of endangered or red-listed (33) 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-incident 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.</p> <p>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).</p> <p>The SOP SW - 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</p> <p>Indicator: Evidence that information about any lethal incidents on the farm has been made easily publicly available (36)</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Records are available on the Grieg website at https://www.griegseafoodcanada.com/our-environment/information-sharing/</p> <p>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</p> <p>Indicator: Maximum number of lethal incidents (37) on the farm over the prior two years</p> <p>Requirement: < 9 lethal incidents, (38) with no more than two of the incidents being marine mammals</p> <p>Applicability: All</p>	<p>There have been no lethal incidents at the farm in the last two years, this information has been provided to ASC.</p>	<p>Compliant</p>	

2.5.6	<p>Indicator: In the event of a lethal incident, evidence that an assessment of the risk of lethal incident(s) has been undertaken and documentation of concrete steps taken by the firm to reduce the risk of future incidences</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Within the SWP SW Wildlife Interactions dated April 2021, the farms are required to report mortalities and nuisance interactions with animals into the company's DATS reporting system. There is also an 'Emergency Response SWP Wildlife Interaction, dated April 2021.</p> <p>The DATS reporting system, for WildStar Mortality, the form used in investigations - environment, includes the details of the incident and the concrete steps taken by the farm that reduces the risk of future incidence.</p>	Compliant																	
3.1.1	<p>Indicator: Participation in an Area-Based Management (ABM) actions for managing disease and resistance to treatments that includes coordination of stocking, fallowing, therapeutic treatments and information-sharing. Detailed requirements are in Appendix 1 of the Salmon standard v.1.3</p> <p>Requirement: Yes</p> <p>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 Greig owned Farms and other farms which is about 75 km distant by water, and as all farms in the nearby area are owned by Greig 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>	Compliant																	
3.1.2	<p>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.</p> <p>Requirement: Yes</p> <p>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 Carlgill they are looking at Complex Gill Disease in Salmon, (ongoing)</p> <p>The industry in BC is providing Crawford Review with sea lice data to establish trends and make details publicly available; research is finished (Mar 2022) results to be published mid/late 2022.</p> <p>The applicant is a member of the BC Salmon Farmers and has been and will be involved in any research conducted through that forum.</p> <p>VIAP/MSA, Helminth, vaccine trial in summer of 2022</p> <p>Pacificus, Sealice Capture and Peroxide Dispersion</p> <p>Plasmidry others.</p>	Compliant																	
3.1.3	<p>Indicator: Establishment and annual review of a maximum sea lice load for the active ABM and for the individual farms as outlined in Appendix I of the Salmon standard v.1.3</p> <p>Requirement: Yes</p> <p>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 Nootka 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 11,836,240 lice (1 x 1,960,340 fish) and, at Mochalet North, 2,559,342 lice (1 x 453,114 fish). Lice load is reviewed annually. Sea lice load information has been submitted to ASC.</p>	Compliant																	
3.1.4	<p>Indicator: Frequent (43) on farm testing for sea lice, with test results made easily publicly available (44) within seven days of testing</p> <p>Requirement: Yes</p> <p>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 science requirements or more stringent.</p> <p>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 (six total = 60 fish) results provided to DFO by the 15th of the following month.</p> <p>Pre-migration Window: February 1 – February 28 (or 29). All stocked Containment Structures are assessed at least once by conducting two Counting Events (conducted within a 5 day window), each of which includes a minimum of three Containment Structures.</p> <p>Out-migration Window: March 1 – June 30. During the period from March 1st to June 30th sampling frequency will be increased to one pen per week (60 fish per sample) unless an acceptable reason for not sampling is provided and documented).</p> <p>– 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</p> <p>– if the sea lice threshold is exceeded</p> <p>– within 7 days upon Discovery, conduct a Counting Event on all stocked Containment Structures</p> <p>– 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>	Compliant																	
3.1.5	<p>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 food productivity in major watersheds within 50 kilometers of the farm</p> <p>Requirement: Yes</p> <p>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 operators are aware of the sensitive period.</p> <p>See 3.1.6</p>	Compliant																	
3.1.6	<p>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</p> <p>Requirement: Yes</p> <p>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 Mochalet Inlet, Nootka 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 Nootka Sound, BC to capture wild juvenile salmon on behalf of Greig Seafood Ltd. It covers monitoring data collected from 11 stations sampled during the 2021 sensitive period: 10-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 Greig website: https://greigseafood.com/ke-wild-pacific-salmon</p>	Compliant																	
3.1.7	<p>Indicator: In areas of wild salmonids, maximum on-farm lice levels during sensitive periods for wild fish (47); see detailed requirements in Appendix IV of the Salmon standard v.1.3</p> <p>Requirement: 0.1 mature female lice per farmed fish</p> <p>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 nr 141 approved 28.3.16 by ASC on indicator 3.1.7. Rationale for use of VR 141 during audit is that the DFO requirements for Lice levels on farmed salmon is accepted by ASC.</p> <p>The DFO requirements have a trigger level for sea lice at 3 motile lice. Sensitive period in the region is set from March 1st to June 30th. The farms did not exceed the trigger level of 3 motile lice during the sensitive period in 2021. The highest level recorded was 0.08 the week of March 16, 2021</p>	Compliant																	
3.2.1	<p>Indicator: If a non-native species is being produced, demonstration that the species was not previously produced in the area by the date of publication of the ASC Salmon standard</p> <p>Requirement: Yes (49)</p> <p>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 escape of reared specimens or biological material that might survive and subsequently reproduce.</p>	<p>The farm produces Atlantic salmon (<i>Salmo salar</i>) which is a non-native species. Greig 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 1976 and grew Coho, but in 1986-88, BC companies shifted almost exclusively to growing Atlantic salmon. The review contains citations for all information contained therein.</p>	Compliant																	
3.2.2	<p>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 firm's jurisdiction and these results submitted to ASC for review (51)</p> <p>Requirement: Yes (52)</p> <p>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"</p> <p>The document Assessment of the Risk of Establishment of Atlantic Salmon Populations in BC 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 Greig and other salmon companies have not detected any Atlantic salmon</p>	Compliant																	

12.3	Indicator: Use of non-native species for sea lice control for on-farm management purposes. Requirement: None Applicability: All	Not being used	Compliant																													
3.3	Indicator: Use of transgenic (54) salmon by the farm. Requirement: None Applicability: All	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 Mowat Canada and Camax who are local positioned and are both BAP certified.	Compliant																													
3.4.1	Indicator: Minimum number of escapes (57) in the most recent production cycle. Requirement: 300 (15) Applicability: All. Farm: A rare exception to this standard may be made for an escape event that is clearly documented as being outside the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there was no reasonable way to predict the events that caused the episode. See auditing guidance for additional details.	For the most recent completed cycle (2018 YC), the final harvest count was 60,563 fish (7.11%) less than expected which could be indicative of an undetected escape event. Mortis are collected daily and numbers entered to the FishTalk database. Final numbers on the side 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. (Same NC from previous audit / report as the current cycle has not yet been completed).	Major	The final harvest count for the most recent completed cycle was 60,563 fish (7.11%) less than expected. (Same NC from previous audit / report as the current cycle has not yet been completed).	04/05/2021	04/08/2021	29 Jul 21	Closed					For all farms that have inventory variances above or below the cumulative counting error, we completed an investigation into the potential causes for the error and possibility of a escape. For Williamson, there was no indication that there was an escape (no unexplained decrease in feed, no unidentified large holes, no predator damage to the nets), in this case the largest factor contributing to the discrepancy was the increased number of acute 24-hour environmental mortality events and using hand counters for mortality event enumeration.	Grig has updated their procedures to all mortalities from acute events will be enumerated by weight sampling and total biomass, rather than the hand counters.	This is the same NC from the audit previous audit / report as the new cycle has not yet been completed. The information (BGA, C, CA) provided at time still applies and remains accepted. Accepted by Central Panel and technical committee, July 29, 2021, as sufficient to mitigate large discrepancy in the actual and expected numbers of fish harvested. 1. BAP Variance Reports for Muchalat North and other farms that indicate adequate investigations. 2. SOP Mortality Collection & Storage; 3. Carware net design drawings.																	
3.4.2	Indicator: Accuracy (59) of the counting technology or counting method used for calculating stocking and harvest numbers. Requirement: > 98% Applicability: All	Wing Tech counters have an accuracy of 98% (+/- 2%) used at the farm for smolt activities. Vaki 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.	Compliant																													
3.4.3	Indicator: Estimated unexplained loss (60) of farmed salmon is made publicly available. Requirement: Yes Applicability: All	EUL are calculated properly and for the previous 2018 cycle was 7.11%. This result was posted on the Grig website Dec 2018, and has been provided to ASC as part of the transparency. https://grigseafood.com/gp/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.	Compliant																													
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, production management, record keeping and reporting of net events (i.e., 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	This farm had a problem River Otter that was chewing into Pen 6. This was evident in the Net Maintenance log. There were holes in Pen 6 that were recorded in the Grig DATS system as repaired Dec 6th and Dec 9th, 2021. Not large enough for a fish escape. These holes were not recorded on the FORM-Net Maintenance Log in the net records. Grig SOP for Net Maintenance Site staff ensure that any repairs made are also recorded on the FORM-Net Maintenance Log in the Net Records binder on site	Minor	Holes in Pen 6 net were found and repaired Dec 6th and Dec 9th, 2021. They were not recorded on the FORM-Net Maintenance Log in the net records.	25 Mar 22	24 Jun 22	2 May 22	Closed					Standard operating procedure was not being followed / understood completely and the holes fixed during the daily inspection which not recorded on the Net Maintenance form.	We revised SOP to make expectations clearer and the Site Manager reviewed the requirement with their staff. We will also include a reminder in the training materials currently under development for the latest management system update training package.	The following documentary evidence provided was accepted by Howard Rees and the technical committee May 2 2022 : Revised Net Maintenance SOP. The Revised Net Maintenance SOP is accepted as corrective evidence by Howard Rees on May 2 2022																	
4.1.1	Indicator: Evidence of traceability, demonstrated by the feed producer, of feed ingredients that make up more than 1% of the feed (63) Requirement: Yes Applicability: All	Grig farms feed suppliers are Skretting Canada, based in Vancouver, BC, and EWOS 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 31, 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, 2022); Grig Q4 2021 Certification update which is a series of EWOS reports bearing various 2021 dates.	Compliant																													
4.2.1	Indicator: Feed:Net Forage Fish Dependency Ratio (FFDR) for grow-out (calculated using formulas in Appendix IV of the Salmon standard v.1.3) Requirement: < 1.2 Applicability: All	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 Muchalat North show the quantities of each formulation used for the previous cycle, the FFDR was 0.48 and eFCR was 1.37, calculations were done properly, and FFDR was submitted to ASC.	Compliant																													
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 (B)(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	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 Muchalat North was 1.59	Compliant																													
4.3.1	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries/certified under a scheme that is an ISAL member (67) and has guidelines that specifically promote responsible environmental management of coastal forage fisheries. Requirement: Not required Applicability: N/A	Not required.	N/A	Not required.																												
4.3.2	Indicator: Prior to achieving 4.3.1, the FishSource score (65, 66) for the fishery/ies from which all marine raw material in feed is derived. Requirement: All individual scores > 6, and biomass score > 6 Applicability: All	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 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? Skretting 2021 North Pacific Hake (NE Pacific) 10/10/10/10/9.2 Atlantic Herring (Skagerrak, Kattegat & W. Baltic) 10/8/8/8/7.1/6.9 Sandeel (NE Central Eastern North Sea) 26/10/10/10/26 European Sprat (North Sea, Skagerrak, Kattegat) 26/8/8/8/9.2/6 South American Pilchard (Gulf of California) 26/8/6/6/8/8/6 Alaska Pollock (Aleutian Islands) 10/10/10/10/10 Anchoveta (Peruvian Northern-Central) 24/7/8/28/6/26 Gulf Menhaden (Gulf of Mexico) 26/28/26/10/9.5 Chilean Jack Mackerel (Southwest Pacific) 24/10/8/20/9.8 Pacific Thread Herring (Sonora) 26/6/6/6/8/10	Compliant																													
4.3.3	Indicator: Prior to achieving 4.3.1, demonstration of third-party verified chain of custody and traceability for the batches of fishmeal and fish oil which are in compliance with 4.3.2. Requirement: Yes Applicability: All	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.	Compliant																													

<p>4.3.4</p> <p>Indicator: Feed containing fishmeal and/or fish oil originating from by-products (69) 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), whose 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 to be not vulnerable in a National Red List process that is conducted regularly in the same territory. Said exception is made 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 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 "All 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>4.3.5</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 Supplier 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>4.4.1</p> <p>Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed ingredients that comply with recognized crop moratoriums (74) 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. https://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>4.4.2</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 Grieg farms.</p> <p>Per Skretting ASC Compliance Letter (Jan 27, 2021): "The formulated average inclusion for soy-derived ingredients is 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>4.4.3</p> <p>Indicator: Evidence of disclosure to the buyer (79) of the salmon of inclusion of transgenic (Bt) plant raw material, or raw material derived from transgenic plants, in the feed</p> <p>Requirement: Yes, for each individual raw material containing 2% transgenic content (81)</p> <p>Applicability: All</p>	<p>Email February 25, 2022, from Certification & Regulatory Affairs Manager to Grieg 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 supplier".</p> <p>Skretting - Approved ingredients include some 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>4.5.1</p> <p>Indicator: Presence and evidence of a functioning policy for proper and responsible (83) 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 open dumping) To apply practices and control technologies, wherever possible, that minimize and 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>4.5.2</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: Grieg 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</p> <p>Indicator: Presence of an energy use assessment verifying the energy consumption on the farm and representing the whole life cycle, as outlined in Appendix V of the Salmon standard v.1.3</p> <p>Requirement: Yes, measured in kilograms of fish produced/production cycle</p> <p>Applicability: All</p>	<p>Biomass, including mortalities produced in the last cycle at Muchalat North (2018) was 3,349 mt. Energy consumption for the last cycle was 24,825,670,958 kJ/t fish harvested.</p> <p>Energy use data has been submitted to ASC.</p> <p>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</p> <p>Indicator: Records of greenhouse gas (GHG) emissions (84) on farm and evidence of an annual GHG assessment, as outlined in Appendix V of the Salmon standard v.1.3</p> <p>Requirement: Yes</p> <p>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/DECC), Intergovernmental Panel on Climate Change (IPCC), UK Government, Greenhouse gas reporting, conversion factors.</p> <p>The Muchalat North GHG for the 2021 Calendar year were 900.5 Tco2e</p> <p>This information has been submitted to ASC.</p>	<p>Compliant</p>													
<p>4.6.3</p> <p>Indicator: Documentation of GHG emissions of the feed (87) used during the previous production cycle, as outlined in Appendix V of the Salmon standard v.1.3</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>The previous cycle (2018) at Muchalat North had 7,570.12 tons CO2 eq for feed</p> <p>This information has been submitted to ASC.</p>	<p>Compliant</p>													
<p>4.7.1</p> <p>Indicator: For farms that use copper-treated nets (90), evidence that nets are not cleaned (91) or treated in situ in the marine environment</p> <p>Requirement: Yes</p> <p>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</p> <p>Indicator: For any farm that cleans nets on-land sites, evidence that net-cleaning sites have effluent treatment (92)</p> <p>Requirement: Yes</p> <p>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 audits of the facility October 29, 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>													

4.3	<p>Indicator: For farms that use copper nets or copper-treated nets, evidence of testing for copper level in the sediment outside of the AZI, following methodology in Appendix C of the Salmon standards v.1.3</p> <p>Requirement: Yes</p> <p>Applicability: All farms. Closed production systems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.3.</p>	Grieg farms do not use copper-treated nets.																		
4.4	<p>Indicator: Evidence that copper levels(03) are < 34 mg Cu/kg dry sediment weight, or, in instances where the Cu in the sediment exceeds 34 mg Cu/kg on sediment weight, demonstration that the Cu concentration falls within the range of background concentrations as measured at three reference sites in the water body</p> <p>Requirement: Yes</p> <p>Applicability: All farms. Closed production systems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.3.</p>	Grieg farms do not use copper-treated nets.																		
4.5	<p>Indicator: Evidence that the type of biofouls used in net antifouling are approved according to legislation in the European Union, or the United States, or Australia</p> <p>Requirement: Yes</p> <p>Applicability: All farms. Closed production systems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.3.</p>	Biofouls are not being used.																		
5.1.1	<p>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</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	The Grieg Salmonid Health Management Plan (HMP) covers both freshwater and marine operations. It covers the requirements of the Fish Health Act 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. DAT's record indicates the HMP was last reviewed and approved by Patrick Whittaker, the Grieg veterinarian 3 Sept 2021.																		
5.1.2	<p>Indicator: Site visits by a designated veterinarian(s) at least for once a year, and by a fish health manager(s) at least once a month</p> <p>Requirement: Yes</p> <p>Applicability: All</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 13 times since this year class was stocked in Sept 2020																		
5.1.3	<p>Indicator: Percentage of dead fish removed and disposed of in a responsible manner</p> <p>Requirement: 100% (97)</p> <p>Applicability: All</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 # 11193 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.																		
5.1.4	<p>Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis</p> <p>Requirement: 100% (98)</p> <p>Applicability: All</p>	All mortalities are recorded, classified and receive a post-mortem analysis. A report generated from FishTalk shows the numbers of mortalities by classification. Workers are trained in the classification of mortalities by the Fish Health Professionals during their site visits. The mortalities are removed from the pens daily and each fish is viewed, classified and recorded by the site staff. Site staff demonstrated the retrieval and classification of mort's during the site visit. Once the fish are recorded and classified the details are recorded into the companies recording database providing the fish health team with results daily. Unusual mortality is brought to the attention of the fish health team immediately when mortality classification is inconclusive or disease is suspected, samples may be sent to the Centre for Aquatic Health Sciences (CAHS) and/or the Animal Health Centre (AHC).																		
5.1.5	<p>Indicator: Maximum viral disease-related mortality(99) on farm during the most recent production cycle</p> <p>Requirement: < 10%</p> <p>Applicability: All</p>	There were no viral disease-related mortalities identified in the last cycle at Mutchall North. The total of uncodable mortalities in the last cycle (2018) was 33,262 fish from a stocking of 851,675. Thus, on the basis that uncodable mortalities (which some may have been due to viral disease), the related mortality for the last cycle was 3.9%. Mortality data has been submitted to ASC.																		
5.1.6	<p>Indicator: Maximum unexplained mortality rate from each of previous two production cycles, for farms with total mortality > 6%</p> <p>Requirement: < 40% of total mortalities</p> <p>Applicability: All farms with > 6% total mortality in the most recent complete production cycle</p>	2016 YC Total Input 553,371, Total mortality 65,432, Total mortality 11.83%, 2018 YC Total Input 851,675, Total mortality 226,876, Total mortality 26.64%, 2016 YC Total mortality 65,432, total non-codable/unexplained 21,366, 32.6% 2018 YC Total mortality 226,876, total non-codable/unexplained 33,262, 14.6%																		
5.1.7	<p>Indicator: A farm specific mortality reduction program that includes defined annual targets for reductions in mortalities and reductions in unexplained mortalities</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	Farm mortality records are detailed in the FishTalk database which enables datasets to be compared and analysed. The Mortality Reduction Strategy, original March of 2015, revised March 2021 was presented. A review of previous year class provides opportunities for improvement in Feed, Sea Lice Management, Environmental Mitigation and Treatment. Grieg has set Global Survival Objectives of 89% to be achieved by 2025. The strategy includes measures for the reduction of overall mortality and reduction of unexplained mortality. Workers confirm that the Fish Health team liaises with them on mortality collection and classification.																		
5.2.1	<p>Indicator: On-farm documentation that includes, at a minimum, used information on all chemicals(101) and therapeutics used during the most recent production cycle, the amounts used (including grams per ton of fish produced), the date used, which group of fish were treated and against which diseases, proof of proper dosing, and all disease and pathogens detected on the fish</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	Paper records of the prescriptions used are maintained on the farm and on the farm database. It's a legal requirement for all sites to retain a copy of prescriptions on-site for DFD review. These were reviewed by the auditor. To date the 2020 YC has received TMS, Slice and Aquafur. Example from records provided: Prescription RV 21-34PW Aquafur treatment for Yellowmouth / Mouth rot (bacterial number ADFP-12095) dated Sep 19 2021. 40 Pens, No. Fish 850129 average weight 276g, Biomass = 314,508 kg. A total of 29,120 kg feed, Active ingredient 2g/kg of feed, Feed rate of 0.5% fish body weight per day over a 10-day period 330 kg/day. Withdrawal period 15 days. Includes the per pen feed amount for Pens 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. Example from records provided: Prescription RV 21-76aPW Emamectin Benzoate Slice treatment for sea lice, (bacterial number ADFP-12095) dated Sep 1 2021, for all pens on site, No. Fish 750782 average weight 44.6g, Biomass = 4,150,664kg. A total of 88,200kg kg 10.5mm feed, Active ingredient 12.5mg/kg of feed, Feed rate of 0.4% fish body weight per day over a 7 day period, includes the per pen feed amount for Pens 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. Withdrawal period 0 days.																		
5.2.2	<p>Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned(102) in any of the primary salmon producing or importing countries (103)</p> <p>Requirement: None</p> <p>Applicability: All</p>	No banned substances have been used at the farm. The company maintains a table of permitted antibiotic and chemicals, as well as banned antibiotics and chemicals.																		
5.2.3	<p>Indicator: Percentage of medication events that are prescribed by a veterinarian</p> <p>Requirement: 100%</p> <p>Applicability: All</p>	Veterinarian's prescriptions cover 100% of treatments. Original prescriptions are maintained at the farm as per DFD requirements, DFD Inspectors review these during their site inspections, and digital copies are also maintained.																		

<p>5.2.4 Indicator: Compliance with all withholding periods after treatments Requirement: Yes Applicability: All</p>	<p>Withholding periods are included in the prescriptions that are drawn up by the company Veterinarian. These withholding periods are logged into the Fish Talk system and highlight the treated fish, indicating they cannot be selected for harvest during the withdrawal period. For Aquarite the withdrawal period was noted to be 15 days, for TMS it is 5 days when temp is 10 degrees and above and 10 days if the temp is below 10 degrees. Emamectin Benzoate emamectin benzoate, no pre-augher withdrawal period is required when this drug product is used according to label directions. To ensure residues do not exceed the maximum residue limit, Atlantic salmon should not be treated more than once in the 60 days prior to the first fish being harvested for human consumption."</p>	<p>Compliant</p>													
<p>5.2.5 Indicator: The farm shall publicly report (via Appendix of the Salmon standard v.1.3) the: 1. Weighted Number of Medicinal Treatments (see Appendix VII) for each production cycle 2. The parasiticide load for each agent over the production cycle 3. The benthic parasiticide residue levels Requirement: Yes Applicability: All</p>	<p>The WNMAT score in the 2018 production cycle was 3.0 based on the farm having had 3 SLICE treatments with the number of genes involved with each treatment. The WNMAT score has been calculated correctly and the records used were available for auditor review. For the current 2020 YC, 2 WNMAT score has been calculated correctly and the records were available for auditor review. The 2 score was based on the farm having 1 Paromove 50 treatment started 10/14/2021 and 1 Slice treatment started 9/10/2021. The WNMAT was contained in the transparency document submitted to ASC.</p>	<p>Compliant</p>													
<p>5.2.6 Indicator: The Weighted Number of Medicinal Treatments shall be at or below the Country Entry Level (see Appendix VI) of the Salmon standard v.1.3 Requirement: Yes Applicability: All</p>	<p>From ASC interpretation Q+A 97, Farms in British Columbia - as the set EL (i.e. 1 WNMAT) sits below the set GL (i.e. 3 WNMAT), farms in BC are required to meet GL. The current 2020 YC, with a score of 2 WNMAT is below the Global Limit of 3</p>	<p>Compliant</p>													
<p>5.2.7 Indicator: The farm shall reduce the Weighted Number of Medicinal Treatments, after achieving indicator 5.2.5, with 25% per 2 years until the WNMAT is at or below the Global Level (see Appendix VII) of the Salmon standard v.1.3 Requirement: Yes Applicability: All</p>	<p>This is the farms second surveillance audit.</p>	<p>Compliant</p>													
<p>5.2.8 Indicator: The farm shall implement integrated Pest Management (IPM) according to the guidance in Appendix VII of the Salmon standard v.1.3 Requirement: Yes Applicability: All</p>	<p>The Salmon Farming Industry Integrated Pest Management Memorandum of Understanding was created by the BC Salmon Farmers Association in collaboration with Grieg Seafood BC, Cormag Canada and Nowak Canada West. The Managing Directors of these three companies signed the MOU on Dec 1, 2020.</p>	<p>Compliant</p>													
<p>5.2.9 Indicator: The farm shall public present (e.g. via company website) the IPM measures that the company applies which need to be approved by a authorized veterinarian Requirement: Yes Applicability: All</p>	<p>Grieg Seafood's Global IPM strategy can be found on the company website at: https://investor.griegseafood.com/corporate-governance</p>	<p>Compliant</p>													
<p>5.2.10 Indicator: The farm shall monitor parasiticide residue levels annually in the benthic sediment directly outside the AZE Requirement: Yes Applicability: All</p>	<p>Per ASC CBA 111, the indicator is not applicable until a guidance document is made available.</p>	<p>Compliant</p>													
<p>5.2.11 Indicator: Allowance for prophylactic use of antimicrobial treatments(104) Requirement: None Applicability: All</p>	<p>Antibiotic use is only authorized with a Veterinarian diagnosis and a prescription. All treatments are recorded in the FishTalk system and then on the fish CV's used for generational history. Medication feed purchase records and dosing prescriptions are available. The current cycle, 169.84 kg of florfenicol has been used.</p>	<p>Compliant</p>													
<p>5.2.12 Indicator: Allowance for use of antibiotics listed as critically important for human medicines by the World Health Organization (WHO) (105) Requirement: None(106) Applicability: All</p>	<p>The applicant has accessed the WHO CIA list 6th rev list online and downloaded this version (Oct 2019), no critically important antibiotics have been used. Only florfenicol which complies with the CIA - Canadian Food Inspection Agency has been used.</p>	<p>Compliant</p>													
<p>5.2.13 Indicator: Number of treatments(107) of antibiotics over the most recent production cycle Requirement: ≤ 3 Applicability: All</p>	<p>In the most recent production cycle, there has been one antibiotic treatment, prescribed by Patrick Whittaker DVM. The treatment was over the course of several months (Oct 2020 thru Jan 2021). Prescription was viewed and cross-referenced with treatment records.</p>	<p>Compliant</p>													
<p>5.2.14 Indicator: If more than one antibiotic treatment is used in the most recent production cycle, demonstration that the antibiotic load(108) is at least 15% less than of the average of the two previous production cycles Requirement: Yes (109) Applicability: All</p>	<p>There has been one antibiotic treatment in the most recent production cycle.</p>	<p>Compliant</p>													
<p>5.2.15 Indicator: Presence of documents demonstrating that the farm has provided buyers(110) of its salmon a list of all ingredients used in production Requirement: Yes Applicability: All</p>	<p>The required records of last medication treatment (Harvest Declaration Form) accompany fish to the processing plant and is transferred to plant staff. These must be reviewed by at least 2 site personnel to ensure the accuracy of these records. Grieg supplied for review their "SUPPLIERS QUALITY ASSURANCE LETTER, Grieg Seafood BC Ltd. – Brown's Bay Packing Co. Ltd, January 2020"</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 is forming use of an alternative, permitted treatment, or an immediate 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 a 1) effective medicinal treatment product available, every third treatment must belong to a different family of drug. Requirement: Yes Applicability: All</p>	<p>The site does rotate between 2 medicinal treatments. Generally the in-feed treatment Slice is used for small fish and Paromove 50 (P202 Bapi) is used for larger fish. H2O2 is considered a pesticide and does not require a prescription. The PESTICIDE USE PERMIT No. 877-0006-1622 authorizing the use of hydrogen peroxide in the Nootka Sound region expires Dec 17, 2022</p>	<p>Compliant</p>													
<p>5.4.1 Indicator: Evidence that all salmon on the site are a single-year class(11) Requirement: 100% (11)</p>	<p>The 2020 YC of smolts were introduced between Sept 27 and Oct 26 2021. The smolt transfer summary record indicates that 853,144 smolts of the 2020 YC were stocked from the Paradise Bay and Gold River Hatcheries. The Fall period between the 2018 YC and the 2020 YC was 152 days</p>	<p>Compliant</p>													

Table with 18 columns: Indicator, Requirement, Applicability, and 15 empty columns. Rows 5.4.2 to 6.5.2 describe various health, safety, and rights standards for a salmon farm, with most findings marked as 'Compliant'.

6.5.3	<p>Indicator: Presence of a health and safety risk assessment and evidence of preventive actions taken</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>STD – Hazard Identification & Risk Assessments, outlines requirements for formal risk assessments. Risks are formally evaluated and categorized using a risk matrix through two risk processes at Grieg Seafood:</p> <ul style="list-style-type: none"> • Identification of Critical Risks (ICR), and • Job Hazard Assessment (JHA). <p>These risk assessment processes are used to categorize risks and determine whether controls are adequate, or if a job may proceed. There are investigation forms that are created for each documented incident, that require corrective actions to reduce/prevent future occurrences, with evidence of better working conditions.</p> <p>STD Inspections and Monitoring that outlines requirements for inspection frequency and expectations for identifying and implementing corrective actions.</p> <p>Monthly inspections: done by department management</p> <p>Quarterly inspections: done by Health & Safety Management Team in conjunction with IOHSC (Joint Occupational Health and Safety Committee)</p>	Compliant	
6.5.4	<p>Indicator: Evidence that all health- and safety-related accidents and violations are recorded and corrective actions are taken when necessary</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>The HS Department provides Health and Safety Performance Metrics to the Senior Management Team and across the organization on a quarterly basis, starting with 2020. The metrics include leading and lagging safety indicators (lost time incidents, lost time incident rate, close calls etc.). Starting this year HS Department plans to extend the leading indicators pool by tracking (number of completed tasks associated with the monthly inspections, number of SOPs reviewed by the department etc.) All recordable incidents have a report created and tracked for closure. 2021 recordable incidents: Kluchatka N. 1 close calls, 2 first aid.</p>	Compliant	
6.5.5	<p>Indicator: Evidence of employer responsibility and/or proof of insurance (accident or injury) for 100% of workers (cost in job-related accident or injury when not covered under national law)</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>TekMed, Inc. is coordinating our claim management process and is representing Grieg in relationship with WorkSafeBC and also is supporting our employees through injury management plan and return to work process. Policy is in compliance with WorkSafeBC that is maintained on a quarterly basis.</p>	Compliant	
6.5.6	<p>Indicator: Evidence that all diving operations are conducted by divers who are certified</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Diving Contractors: Diveco, All-Pin & Coastal Divers</p> <p>Contractor information is requested on an annual basis, and site managers complete a dive inspection when diving contractors perform diving operations in each of the locations. All Contractors maintain Grieg Seafood Standards of safety and adhere to all regulations maintained at each site.</p>	Compliant	
6.6.1	<p>Indicator: The percentage of workers whose basic wage(136) before overtime and bonuses) is below the minimum wage(137)</p> <p>Requirement: 0 (None)</p> <p>Applicability: All</p>	<p>Wages are detailed in the Contract of Employment, which was reviewed by the auditor in the HR system maintaining signed contracts, and does note the pay being established and accepted. Employees receive wage payments bi-weekly by direct deposit. All interviewed workers stated they were clear on wages rates and had no issues with payments. All reviewed payroll data confirms that pay is above the minimum wage for BC.</p>	Compliant	
6.6.2	<p>Indicator: Evidence that the employer is working toward the payment of basic needs wage(140)</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>There is no nationally recognized Living Wage in Canada. Grieg Seafood uses information from 1. Statistics Canada, (unemployment rate, consumer price index), 2. Core Ferry – Market detail review with the Canadian Market to assist with setting pay levels. Minimum wages at this facility are higher than the average wage for the area and Grieg starting rate is \$18 per hour. This was confirmed with sampled employees interviewed.</p>	Compliant	
6.6.3	<p>Indicator: Evidence of transparency in wage-setting and workers(137)</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Wages are detailed in the Contract of Employment, which was reviewed in the HR system maintaining signed contracts by auditor and does note the pay being established and accepted. Employees receive wage payments bi-weekly by direct deposit. All interviewed workers stated they were clear on wages rates and had no issues with payments. Pay is at a minimum of \$18.00 per hour, and lowest of the sampled employees were all above this minimum wage per hour.</p>	Compliant	
6.7.1	<p>Indicator: Percentage of workers who have contract(139)</p> <p>Requirement: 100%</p> <p>Applicability: All</p>	<p>All employees are provided with a contract of employment, and a copy of the contract was available in the completed personnel files. CONFIRMED WITH Debra Gaskie, Payroll and Benefits Administrator – Reviewed on 3/17/2022. There was no evidence of labor only contracts or false apprenticeships. This was confirmed with a review with Grieg Seafood HR Management files for the randomly selected personnel. Interviewed personnel confirmed.</p>	Compliant	
6.7.2	<p>Indicator: Evidence of a policy to ensure social compliance of all suppliers and contractors</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Grieg Seafood Code of Conduct details the policy for working with third parties who amongst other things must adhere to values and principles that are consistent with Grieg Seafood operations. Grieg Seafood keeps a list of approved suppliers and contractors, which is maintained and updated as required to maintain permits and licenses for work performed on behalf of Grieg Seafood. Updated at least annually with documented agreements.</p>	Compliant	
6.8.1	<p>Indicator: Evidence of effective access to effective, fair and confidential grievance procedures</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Grieg Code of Conduct - 7/27/2021 - It is expected of employees to use the procedure most common to the employee either orally or in writing as early as possible. Written procedures are available for all employees to communicate with Managers, Human Resources or through the Whistleblower Hotline, which all employees interviewed confirmed training on this policy. There also is a documented anti-retaliation policy to protect any confidential or anonymous communications. Complaints or issues are NOT commonly maintained within an employee's personnel file and are removed and deleted from HR files as they are closed out. This was confirmed with communication with HR Management during the audit.</p>	Compliant	
6.8.2	<p>Indicator: Percentage of grievances handled that are addressed(141) within a 90-day timeframe</p> <p>Requirement: 100%</p> <p>Applicability: All</p>	<p>As per Debra Gaskie, Payroll and Benefits Administrator commented that the established grievance policy and procedures are well documented. Any grievance raised are recorded and maintained within a confidential file within the HR system. Interviewed employees confirmed knowledge of these procedures and there is a formal grievance system available for all employees, but none have been raised.</p>	Compliant	
6.9.1	<p>Indicator: Incidences of excessive or abusive disciplinary actions</p> <p>Requirement: None</p> <p>Applicability: All</p>	<p>Grieg Code of Conduct - 7/27/2021 – Performance Management – Disciplinary Actions does not use any threatening, humiliating or punishing disciplinary practices that negatively impact a worker's physical and mental health or dignity. The disciplinary procedure is fair and legitimate as confirmed during worker's interview at each site. All employees sign and acknowledge these policies in DATS.</p>	Compliant	
6.9.2	<p>Indicator: Evidence of a functioning disciplinary action policy whose aim is to improve the worker (141)</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Covered in the Grieg Code of Conduct - 7/27/2021 – Progressive improvement to the worker in becoming a better employee. The company's disciplinary policy explicitly states that its aim is to improve the worker. The company has also established a performance management policy to be noted alongside the disciplinary policy, the aim of this policy is to develop the worker's performance to bring behaviors up to an acceptable standard. For the review of the sampled employees, there is the procedure, but no active disciplinary action on file.</p>	Compliant	
6.10.1	<p>Indicator: Incidences, violations or abuse of working hours(143) and overtime laws</p> <p>Requirement: None</p> <p>Applicability: All</p>	<p>Sea Sites</p> <ul style="list-style-type: none"> • All salt water sea site employees work a shift schedule consisting of 8 days on/8 days off. Daily hours of work range between 8-10 hours, based on business needs. • Sea site employees are guaranteed 80 hours of pay per shift cycle, provided that the employee works the full 8 days per shift cycle. Otherwise, the guaranteed hours will be prorated. All overtime must be pre authorized by each employee's supervisor. • Hours worked overtime from 1 to 2 hours is paid at time and a half, in excess of 2 overtime hours per day will be calculated at a rate of double the regular hours pay. <p>Communication with interviews confirmed that work hours are properly addressed, and overtime is paid properly when authorized. Working hours are controlled by Grieg timeframes, which are different for each location, but confirmed with the interviewed employees that very little OT is allowed, and is always voluntary.</p>	Compliant	
6.10.2	<p>Indicator: Overtime is limited, voluntary(144), paid at a premium rate and restricted to exceptional circumstances</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<ul style="list-style-type: none"> • Hours worked overtime from 1 to 2 hours is paid at time and a half, in excess of 2 overtime hours per day will be calculated at a rate of double the regular hours pay. <p>The time and attendance system confirmed that overtime is infrequent. Overtime is worked on a voluntary basis as confirmed during the interview process.</p>	Compliant	
6.11.1	<p>Indicator: Evidence that the company regularly performs training of staff in both hazardous general forms and EHS system management and health and safety procedures</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>All training records are maintained on the DATS system. Emergency Preparedness & Response Training - 100% of completion for this mandatory training. Posters covering all these areas available for all employees.</p> <p>Workers confirmed that they are encouraged to learn and be involved with training courses. Other than compulsory health and safety training workers dictate the speed of additional training.</p>	Compliant	
6.12.1	<p>Indicator: Demonstration of company level(146) policies in line with the standards under 6.1 to 6.11 above</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Grieg Seafood Code of Conduct and HR Policies are in line with all social and labor requirements. The Senior Management Team approves corporate policy and specific local requirements at Corporate Offices in Campbell River. The scope of all corporate policies covers all company operations. All requested documentation was provided and reviewed.</p>	Compliant	
7.1.1	<p>Indicator: Evidence of regular and meaningful(147) consultation and engagement with community representatives and organizations</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Grieg regularly engages with community members and the local municipality, particularly the Mayor and Councilors via online meetings, phone calls and email communications. It has established relationships with the local governments for the communities in which we operate. Grieg has a field office in Gold River. Grieg has a strong presence in the Gold River community by making contributions in donations, classes or other sponsorships of activities or events in the area. Grieg is also a member of the Nootka Sound Watershed Society and the Gold River Chamber of Commerce. Continued coordination and communication are provided in 2022 and 2023.</p>	Compliant	

7.1.2	<p>Indicator: Presence and evidence of an effective(148) policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Complaints Policy in place, there have been no complaints to date. Review of the documented mechanism is adequately maintained to provide multiple common methods of communication.</p> <p>Process – 1. By Email – Community.relations@griegsealfood.com 2. Phone – 250-286-0838, extension 112, 3. Mail #106-1380 Ironwood Street, Campbell River, BC V9W5P7, Attention: Director of Indigenous & Community Relations.</p> <p>Grieg BC will acknowledge the receipt of the complaint within 2 business days.</p> <p>Policy - External Complaints Resolution</p> <p>Grieg Seafood's Code of Conduct, section 6, states "Care for local communities – We aim for positive relationships in communities where we operate, and to contribute to local development." No representative made themselves available for the audit.</p>	Compliant																		
7.1.3	<p>Indicator: Evidence that the farm has posted visible notice(149) at the farm during times of therapeutic treatments and has, as part of notification with communities under 7.1.1, communicated about potential health risks from treatments.</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Signage posted on farms and there are records of engagement are included with the Pesticide Use Permit applications. During COVID 19, there have been strict restrictions of any personnel other than Grieg Seafood Employees from working in and around the farm site.</p>	Compliant																		
7.2.1	<p>Indicator: 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 farms that operate in indigenous territories or in proximity to indigenous or aboriginal people</p>	<p>All farms operate in indigenous territories. Two licences are issued by government: the federal government issues the Marine Inland Aquaculture Licence under the Fisheries Act and the provincial issues the Provincial tenure. Grieg has an impact benefits agreement/ working relationship with the Mowachah/Muchahat First Nation who are the only rights holders for Muchahat North.</p>	Compliant																		
7.2.2	<p>Indicator: Evidence that the farm has undertaken proactive consultation with indigenous communities</p> <p>Requirement: Yes (150)</p> <p>Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people</p>	<p>Grieg has an impact benefits agreement/ working relationship with the Mowachah Muchahat First Nation who are the only rights holders for Muchahat North. Grieg demonstrates proactive engagement and supports government consultation. Grieg keeps a record of communications and engagement with communities and first nations(Grieg Seafood - Communications Report).</p>	Compliant																		
7.2.3	<p>Indicator: Evidence of a protocol agreement, or an active process(151) to establish a protocol agreement, with indigenous communities</p> <p>Requirement: Yes</p> <p>Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people</p>	<p>Grieg has an impact benefits agreement/ working relationship with the Mowachah Muchahat First Nation who are the only rights holders for Muchahat North.</p>	Compliant																		
7.3.1	<p>Indicator: Changes undertaken restricting access to vital community resources(52) without community approval</p> <p>Requirement: None</p> <p>Applicability: All</p>	<p>Grieg Seafood has established a very progressive mechanism to ensure that communities resources are never used without community approval. The communications mechanism and frequent interactions with the relevant First Nations, ensures that there is no restricted access to community resources</p>	Compliant																		
7.3.2	<p>Indicator: Evidence of assessments of company's impact on access to resources</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>Grieg Seafood has established a very progressive mechanism to ensure that communities resources are never used without community approval and has an impact assessment for the Noctua Sound. Grieg includes information provided by the Nations along with publicly available datasets to ensure that Grieg is not impacting resources.</p>	Compliant																		
8.1	<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>2 Hatcheries were used for stocking this Site. Gold River Hatchery owned by Grieg, Lena Creek for whom Grieg is the only customer</p> <p>Grieg: Gold River Hatchery: Freshwater/Land-based Aquaculture Licence Under the Fisheries Act, Licence No. ADPW 115270 2015/2024, issued by DFO and expiring June 18, 2024. Permit PE12045 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. ADPW 112782 2015/2024, issued by DFO and expiring June 18, 2024. Permit PE1838 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>	Compliant																		
8.2	<p>Indicator: Compliance with labour laws and regulations</p> <p>Requirement: Yes</p> <p>Applicability: All Smolt Producers</p>	<p>Grieg: Gold River Hatchery, Grieg Seafood Code of Conduct and HR Policies are in line with all social and labor requirements. The Senior Management Team approves corporate policy and specific local requirements at Corporate Offices in Campbell River. The scope of all corporate policies covers all company operations.</p> <p>Grieg: Lena Creek has signed the declaration stating they are in compliance and good standing with provincial and federal health and safety and employment standards legislation under Work Safe BC and Employment Standards Act of BC and the Canada Labor Code.</p> <p>All laws and regulations are maintained by all noted in the reviewed documentation.</p>	Compliant																		
8.3	<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>	Compliant																		
8.4	<p>Indicator: Maximum total amount of phosphorus released into the environment per metric ton(t) 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/t fish production.</p>	Compliant																		
8.5	<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>	Compliant																		
8.6	<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 events that caused the episode. Extreme weather (e.g. 100-year storms) or accidents caused by human factors 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 facility at Lena Creek.</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 smolt on Aug 6th. The report to DFO of 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 have left 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>	Compliant																		

<p>8.7 Indicator: Accuracy(158) of the counting technology or counting method used for calculating the number of fish Requirement: ≥98% Applicability: All Smolt Producers</p>	<p>The Gold River, Lena Creek Hatcheries use the Vaik Counter (micro and macro) accuracy is stated as >99%.</p>	<p>Compliant</p>												
<p>8.8 Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from production (e.g., disposal and recycling) Requirement: Yes Applicability: All Smolt Producers</p>	<p>The Gold River and Lena Creek 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 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) Requirement: Yes, measured in kilowatt/hour fish/production year 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 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. Gold River: Total energy consumption (kWh) 48,464,632,994.4 kWh Lena Creek: Total energy consumption (kWh) 0 kWh as the site produces its own electricity using a water turbine and is self-sufficient.</p>	<p>Compliant</p>												
<p>8.10 Indicator: Records of greenhouse gas (GHG(159)) emissions(160) at the smolt production facility and evidence of an annual GHG assessment (See Appendix V of the Salmon standard v. 1.3) Requirement: Yes Applicability: All Smolt Producers</p>	<p>GHG emissions are calculated, recorded and reported using CEMAsys technology (see 4.6.2). Jan 1 - Dec 31, 2023: 2498 tonnes CO2e Gold River Hatchery: 0 kg CO2e equivalents as the site produces its own electricity from water turbine. Lena Creek:</p>	<p>Compliant</p>												
<p>8.11 Indicator: Evidence of a fish health management plan, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites Requirement: Yes Applicability: All Smolt Producers</p>	<p>Grig provided the auditor with their Health Management Plan (HMP) – Version 2.0 February 2020, signed March 11 2023 by the designated veterinarian Patrick Whittaker for the identification, monitoring and response to fish diseases and parasites. Lena Creek supplied their Salmonid Health Management Plan Issue Date : 1 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>Compliant</p>												
<p>8.12 Indicator: Percentage of fish that are vaccinated for selected diseases that are known to present a significant risk in the region and for which an effective vaccine exists(161) Requirement: 100% Applicability: All Smolt Producers</p>	<p>All smolts introduced to the site were vaccinated. Vaccination is not mandatory but is the common practice. Fish health records show the smolts entered at the farm were vaccinated against various diseases. All hatcheries have different vaccination regimes which may include: furunculosis, vibriosis, cold water vibriosis, infectious haemopoietic necrosis, winter sores and enteric redmouth. Smolts from the Grig 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, Apex - IHN, APEX + AIS-3</p>	<p>Compliant</p>												
<p>8.13 Indicator: Percentage of smolt groups(162) tested for select diseases of regional concern prior to entering the grow-out phase on farm(163) Requirement: 100% Applicability: All Smolt Producers</p>	<p>Fish must be tested prior to movement, these diseases are listed in Appendix III of the Freshwater Aquaculture Licence 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 CFAs reportable or immediately notifiable diseases.</p>	<p>Compliant</p>												
<p>8.14 Indicator: Detailed information, provided by the designated veterinarian, of all chemicals and therapeutics used during the smolt production (note 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 diseases and pathogens detected on the site. Requirement: Yes Applicability: All Smolt Producers</p>	<p>Neither of the hatcheries supplying smolts had treated with chemicals or therapeutics at the hatchery.</p>	<p>Compliant</p>												
<p>8.15 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) Requirement: Yes Applicability: All Smolt Producers</p>	<p>No antibiotic treatments have been used in either of the hatcheries. Grig maintains a table of banned antibiotic and chemicals, as well as permitted antibiotics and chemicals and allowable levels.</p>	<p>Compliant</p>												
<p>8.16 Indicator: Number of treatments of antibiotics over the most recent production cycle Requirement: ≤ 3 Applicability: All Smolt Producers</p>	<p>No antibiotic treatments have been used in either of the hatcheries on the 2020 YC.</p>	<p>Compliant</p>												
<p>8.17 Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the WHO(166) Requirement: None(167) 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>8.18 Indicator: Evidence of compliance(168) with the OIE Aquatic Animal Health Code(169) Requirement: Yes Applicability: All Smolt Producers</p>	<p>The Gold River Hatchery is part of Grig Canada. The OIE Aquatic Animal Health Code is available online in DATS for Grig. Relevant staff know how to locate it. The fish health Team are the most relevant and the head was interviewed during the audit. 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>Compliant</p>												
<p>8.19 Indicator: Evidence of compliance level policies and procedures in line with the labour standards under 6.1.1 to 6.1.11 Requirement: Yes Applicability: All Smolt Producers</p>	<p>Grig 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.</p>	<p>Compliant</p>												
<p>8.20 Indicator: Evidence of regular consultation and engagement with community representatives and organizations Requirement: Yes Applicability: All Smolt Producers</p>	<p>Grig has a field office in Gold River with Grig 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. Grig is also a member of the Nootka Sound Watershed Society. Review of on-going meetings and communication as provided in 2021 and 2022.</p>	<p>Compliant</p>												
<p>8.21 Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All Smolt Producers</p>	<p>See Section 7 – Complaints policy/ no complaints to date.</p>	<p>Compliant</p>												
<p>8.22 Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Applicability: All Smolt Producers</p>	<p>Gold River Hatchery is operating in Mowadchaht Muxhalant territory. 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 M&E have been shared with the Nation in 2021. Muxhalant North is provided with stock from this hatchery.</p>	<p>Compliant</p>												
<p>8.23 Indicator: Where relevant, evidence that the farm has undertaken proactive consultation with indigenous communities Requirement: Yes 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>Indicator: Allowance for stocking smolts produced in cage culture Requirement: Permitted only if supplying farms are 3) operated in a region where indigenous salmonids are present or the same species being cultured 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>Indicator: Water quality monitoring matrix completed and submitted to ASC (see Appendix VII of the Salmon standard v.1.3) Requirement: Yes(172) 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>Indicator: Minimum oxygen saturation in the outflow (methodology in Appendix VII 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 and 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</p>	<p>Compliant</p>																							
<p>Indicator: Macroinvertebrate 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 VII 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 Rotham Sound Hatchery, Lena Creek, BC, July 2020 concluded the effluent is considered to have a "low impact" (category 2; Table 6) as HSI in July 2020. The report shows that there are more species of invertebrate downstream than upstream.</p>	<p>Compliant</p>																							
<p>Indicator: Evidence of implementation of Biosolids (Sludge) Best Management Practices (BMPs) (Appendix VII of the Salmon standard v.1.3) Requirement: Yes Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems</p>	<p>All 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 - BIOSOLIDS MANAGEMENT dated March 2021 (aka Lena Creek) indicates the settling ponds are dredged 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.</p>	<p>Compliant</p>																							

Summary of Standard Non Conformities (NC)
Standard: Salmon
Version: 1.3

NC Type	NC Totals
Major	1
Minor	1
Total	2

Note: Unfilled 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 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	Root cause analysis	NC correction	NC Corrective action	Auditor evaluation	Extension justification	New deadline for NC close-out	Notes	
1	3.4.1	<p>Indicator: Maximum number of escapes (S7) in the most recent production cycle</p> <p>Requirement: 300 (S8)</p> <p>Applicability: All farm. A rare exception to this standard may be made for an escape event that is clearly documented as being outside the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there was no reasonable way to predict the events that caused the episode. See auditing guidance for additional details.</p>	<p>For the most recent completed cycle(2018 YC), the final harvest count was 60,563 fish (7.11%) less than expected which could be indicative of an undetected escape event. Mortis 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.</p> <p>Net checks are carried out by others. There are cameras in every cage with excellent resolution and they are pan, tilt and move up and down in the cages for inspection purposes. Escape monitoring data has been submitted to ASC (Same NC from previous audit) / report as the current cycle has not yet been completed).</p>	Major	<p>The final harvest count for the most recent completed cycle was 60,563 fish (7.11%) less than expected. (Same NC from previous audit) / report as the current cycle has not yet been completed).</p>	04/05/2021	04/08/2021	29-Jul-21	Closed						<p>For all farms that have inventory variances above or below the cumulative counting error, we complete an investigation into the potential causes for the error and possibility of a escape. For Williamson, there was no indication that there was an escape (no unexplained decrease in feed, no unidentified large holes, no predator damage to the nets); in this case the largest factor contributing to the discrepancy was the increased number of acute 24-hour environmental mortality events and using hand counters for mortality event enumeration.</p>		<p>Grieg has updated their procedures so all mortalities from acute events will be enumerated by weight sampling and total biomass rather than the hand counters.</p>	<p>This is the same NC from the audit previous audit / report as the new cycle has not yet been completed. The information (RCA, C, CA) provided at time still applies and remains accepted. Accepted by Conrad Powell and technical committee, July 29, 2021, as sufficient to mitigate large discrepancy in the actual and expected numbers of fish harvested:</p> <ol style="list-style-type: none"> 1. BAP Variance Reports for Muchalat North and other farms that indicate adequate investigations; 2. SOP Mortality Collection & Storage; 3. Garware net design drawings. 			
2	3.4.4	<p>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.</p> <p>Requirement: Yes</p> <p>Applicability: All</p>	<p>This farm had a problem River Otter that was chewing into Pen 6. This was evident in the Net Maintenance log. There were holes in Pen 6 that were recorded in the Grieg DATS system as repaired Dec 6th and Dec 9th, 2021. (not large enough for a fish escape) These hole were not recorded on the FORM-Net Maintenance Log.</p> <p>Grieg SGP SW Net Maintenance</p> <p>Site staff will ensure that any repairs made are also recorded on the FORM-Net Maintenance Log in the Net Records binder on site</p>	Minor	<p>Holes in Pen 6 net were found and repaired Dec 6th and Dec 9th, 2021. They were not recorded on the FORM-Net Maintenance log in the net records.</p>	25-Mar-22	24-Jun-22	2-May-22	Closed					<p>Standard operating procedure was not being followed/ understood completely and the holes fixed during the daily inspection where not recorded on the Net Maintenance form.</p>		<p>We revised SOP to make expectations clearer and the Site Manager reviewed the requirement with their staff. We will also include a reminder in the training materials currently under development for the latest management system update training package.</p>	<p>The following documentary Evidence Provided was accepted by Howard Rees and the technical committee May 2 2022 : Revised Net Maintenance SOP. The Revised Net Maintenance SOP is accepted as corrective evidence by Howard Rees on May 2 2022</p>				