





Form 3 - Public Disclosure Form

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

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

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

This form should be translated into local languages when appropriate

PDF 1 Public Disclosure Form

PDF 1.1 Name of CAB	SGS Netherlands BV
PDF 1.2 Date of Submission	4-Dec-20
PDF 1.3 CAB Contact Person	
PDF 1.3.1 Name of Contact Person	Technical Management: Nikki den Boon / Local Contact: Ramona Miclosanu
PDF 1.3.2 Position in the CAB's organisation	ASC Program Manager / Key Account Specialist
PDF 1.3.3 Mailing address	P.O. Box 200, 3200 AE Spijkenisse, The Netherlands
PDF 1.3.4 Email address	<u>asc.reports@sgs.com /</u> Ramona.Miclosanu@sgs.com
PDF 1.3.5 Phone number	+31 88 214 3271 / +1 (201) 508-3185
PDF 1.3.6 Other	

PDF 1.4 ASC Name of Client

PDF 1.4.1 Name of the Client

PDF 1.4.1.a Name of the unit of certification

Esperanza

Grieg Seafood BC Ltd.

PDF 1.4.2 Name of Contact Person

Kristin Storry

SGS



PDF 1.4.3 Position in the client's organisation	Certification Manager
PDF 1.4.4 Mailing address	#106-1180 Ironwood St, Campbell River, BC V9W 5P7, Canada
PDF 1.4.5 Email address	Kristin.storry@griegseafood.com
PFD 1.4.6 Phone number	250 286.0838 Ext.148
PDF 1.4.7 Other	

PDF 1.5 Unit of Certification

PDF 1.5.1 Single Site	X
PDF 1.5.2 Multi-site	N/A
PDF 1.5.2.a Ownership status	Owned
PDF 1.5.3 Group certification	N/A

PDF 1.6 Sites to be audited

Site Name	GPS Coordinates	List all species per site and indicate if they are in the scope of the standard	Ownership status (owned/ subcontracted)	Date of planned audit and type of audit (Initial, SA1, SA2, recertification, etc.)	Status (new, in production/ fallowing /in harvest)
Esperanza	49°52.6973, 126°45.6974	Atlantic Salmon (Salmo salar)	Owned	26-29 January 2021, IA, Remote	In production





PDF 1.7 Species and Standards

Standard	Species (scientific name) produced	Included in scope (Yes/No)	ASC endorsed standard to be used	Version Number
Salmon 1.3	Atlantic salmon (Salmo salar)	Yes	Salmon	1.3

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

Name/organisation	Relevance for this		When stakeholder may	
	audit	this stakeholder	be contacted	stakeholder will
		(in-		be contacted
		person/phone		
		interview/input		
		submission)		
Village of Tahsis	Municipal	Input submission	In advance of the audit	By email
village of Talisis	Government	11000 300111331011		by chian
Village of Tahsis	Municipal	Input submission	In advance of the audit	By email
village of Talisis	Government	11000 300111331011		by chian
Village of Tahsis	Municipal	Input submission	In advance of the audit	By email
village of Talisis	Government	11000 300111331011		by chian
Village of Zeballos	Municipal	Input submission	In advance of the audit	By email
Things of Lebanos	Government		advance of the dudit	-,
Village of Zeballos	Municipal	Input submission	In advance of the audit	By email
The of Lebunds	Government		advance of the dudit	-,
Uu-a-thluk Fisheries/Nuu-		Input submission	In advance of the audit	By email
chah-nulth Tribal Council				by ciriai
	representative			
Nuchatlaht Tribe	First Nation	Input submission	In advance of the audit	By email
Ehattesaht Chinehkint	First Nation	Input submission	In advance of the audit	By email
Ehattesaht Chinehkint	First Nation	Input submission	In advance of the audit	By email
Tahsis Salmon	Conservation Group	Input submission	In advance of the audit	By email
Enhancement Society				
Tahsis Salmon	Conservation Group	Input submission	In advance of the audit	By email
Enhancement Society				
Department of Fisheries	Conservation Group	Input submission	In advance of the audit	By email
and Oceans - Conuma				
River Hatchery				
Moucha Bay Resort	Industry		In advance of the audit	
Nootka Sound	Industry	Input submission	In advance of the audit	By email
Watershed Society, West				
Coast Marine Terminals				
Nootka Marina	Industry	Input submission	In advance of the audit	By email
Adventures	,			
Westview Marine	Industry	Input submission	In advance of the audit	By email
Cougar Creek Resort	Industry		In advance of the audit	By email
Nootka Sound	Industry		In advance of the audit	By email
Services/Nootka Sound		•		
Marine				
Air Nootka	Industry	Input submission	In advance of the audit	By email
Living Oceans	NGO		In advance of the audit	, By email

PDF 1.9 Proposed Timeline





PDF 1.9.1	Contract Signed:	11-Jun-20
PDF 1.9.2	Start of audit:	26th of January 2021 (Remote)
PDF 1.9.3	Onsite Audit(s):	26th - 29th January 2021 - Remote
PDF 1.9.4	Determination/Decision:	Apr-21

PDF 1.10 Audit Team

	Column1	Name	ASC Registration	
PDF 1.10.1	Lead Auditor	Paul Casburn		
PDF 1.10.2	Technical Experts (specify	y the activities to be in	nplemented by the e.	xpert(s)
PDF 1.10.3	Social Auditor	Robert Johnson		



ASC Audit Report - Opening



1 Title Page				
1.1 Name of Applicant	Grieg Seafood BC Ltd.			
1.2 Report Title [e.g. Public Draft Certification Report/ Final certification report/Surveillance report]	Final Certification Report Esperenza			
1.3 CAB name	SGS Netherlands BV			
1.4 Name of Lead Auditor	Paul Casburn			
1.5 Names and positions of report authors and reviewers	Paul Casburn, Lead auditor. Robert Johnson, Social auditor. Nikki der decision manager.	n Boon, reviewer and certification		
1.6 Client's Contact person: Name and Title	Kristin Storry, Certification manager			
1.7 Date	Monday, May 10, 2021			
2 Table of Contents				
	1 Title Page			
	2 Table of Contents			
	3 Glossary			
	4 Summary			
	5 CAB Contact Information			

3 Glossary

Terms and abbreviations that are specific	GMO = Genetically modified Organism. ISA=Infectious salmonic anemia. PRV=Piscine rheovirus. BKD =
to this audit report and that are not	Bacterial Kidney disease. DFO = Department of fisheries and Oceans.
otherwise defined in the ASC glossary	

Client Internal Management System - Multisite

4 Summary

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

6 Background on the Applicant

10 Audit Report Traceability

Internal Auditors Requirements

12 Evaluation Results

7 Scope 8 Audit Plan 9. Audit Template

11 Findings

13 Decision 14 Surveillance

List of Sites

4.1 A brief description of the scope of The Scope is under the ASC salmon standard V1.3 and CAR V2.2 of the site called Esperenza. The Scope the audit (including activities of the UoC includes all farming related activities of the farm. The audit evaluated the Environmental and Social being audited) compliance of the farm to the standard. The related managment systems are also within the Scope of Audit and any associated site infrastructure.



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

4.3 Type of unit of certification (select only one type of unit of certification in the list)

Farming of Atlantic salmon from smolt to harvest size.

Single Farm





	4.4	Type of audit (select all the types of audit that apply in the list)	Initial audit		
	4.4.1	Number of sites included in the unit of certification Initial audit - 02/2021 Surveillance audit 1 - mm/ yyyy Surveillance audit 2 - mm/ yyyy	Owned by client	Subcontracted by client 0	
		Recertification audit - mm/ yyyy			
	4.5	A summary of the major findings	There were no major findings	. See summary of findings sheet.	
	4.6	Did the audit include harvesting activities of the principle product to be audited?	No. Harvest was not witnesse	ed.	
	4.7	If not, provide a justification for the alternative timing.		Ilmon onsite have not yet reached harv udits and if the site achieve certificatio	
	4.6	The Audit determination	interviews and real time cam Challenges and difficulties er to remote site locations. The audit team confirms that	d remotly using submitted documents, era reviews. acountered conducting the remote aud the effectiveness of remote auditing a granted on 10th of May 2021	it included eratic wifi coverage due
5 CAB C	ontact li	nformation			
	5.1	CAB Name	SGS Nederland BV		
	5.2	CAB Mailing Address	P.O. Box 200, 3200 AE Spijker	nisse, The Netherlands	
	5.3	Email Address	asc.reports@sgs.com		
	5.4	Other Contact Information			
6 Backg		n the Applicant			
6.1	(Form update	ation on the Public Disclosure Form 3) except 1.2-1.3. All information ed as necessary to reflect the audit ducted.	Yes		
6.2	(for intid	ription of the unit of certification al audit) / changes, if any (for Ince and recertification audits)	The site called Esperenza is located a Esperanza Inlet & Hecate Channel, on the Western side of Vancouver Island. It produces Atlantic salmon, from smolt to harvest size in 14 steel pens 30x30x20m in size.		
6.3		certifications currently held by the certification	GAA BAP certification as part of a Group certificate.		

Aquaculture Stewardship Council



6.4	Other certification(s) obtained by the UoC before this audit	GAA BAP certification as part of a Group certificate.
6.5	Estimated annual production volumes of the unit of certification of the <u>curren</u> t year	2813 tons
6.6	<u>Actual</u> annual production volumes of the unit of certification of the <u>previous</u> year (<i>mandatory for surveillance and recertification</i>	0 tons
6.7	Production system(s) employed within the unit of certification (select one or more in the list)	Steel Marine Pens
6.8	Number of employees working at the unit of certification (<i>see notes in comment to this cell</i>)	6 (2-3 onsite at a time)
6.9	Size, and/or number of ponds, pens (if multi site, per site)	14 steel pens 30x30x20m in size.
7 Scope		
7.1	The Standard(s) against which the audit	ASC Salmon V1 3

7.1	The Standard(s) against which the audit was conducted, including version number	ASC Salmon V1.3
7.2	The species produced at the applicant farm (in English and Latin names)	Atlantic salmon (Salmo salar)
7.3	A description of the scope of the audit including a description of whether the unit of certification covers all production or harvest areas (i.e. ponds) managed by the operation or located at the included sites, or whether only a sub-set of these are included in the unit of certification. If only a sub-set of production or harvest areas are included in the unit of certification these shall be clearly named.	The audit has been conducted remotly using submitted documents, pictures, video clips, distance interviews and real time camera reviews. The Scope includes all farming related activities of the farm site evaluating the Environmental and Social compliance of the farm site to the standard. The related managment systems are also within the Scope of Audit. All the pens harvested are covered by the Scope.
7.4	The names and addresses of any storage, processing, or distribution sites included in the operation (including subcontracted operations) that will potentially be handling certified products, up until the point where product enters further chain	Brown's Bay Packing Co. Ltd. 15007 Browns Bay Rd. Campbell River, British Columbia Canada V9H 1N9
7.5	Description of the receiving water body(ies).	The site called Esperenza is located a Esperanza Inlet & Hecate Channel, on the Western side of Vancouver Island.
8 Audit	Plan	
8.1	The names of the auditors and the dates when each of the following were undertaken or completed: conducting the audit, writing of the report, reviewing the report, and taking the certification	January 2021. Pre audit preparation. Paul Casburn January 26th to 29th 2021. Audit proper. Paul Casburna and Robert Johnson February 1st to 6th 2021. Audit drafting. Paul Casburn and Robert Johnson. February 12 and 25th, 11th March 2021. Technical review. May 10th 2021. Certification Decision.

decision.







Previous Audits (if applicable): 8.2

8.2.1 Initial audit - 01/2021

Standard Closing deadline - status - closing date of each NC NC reference clause number reference See Summary of Findings Surveillance audit 1 - mm/ yyyy Surveillance audit 2 - mm/ yyyy Recertification audit - mm/ yyyy Unannounced audit - mm/ yyyy NC close-out audit - mm/ yyyyy



Scope	extention	audit	mm/	уууу
scope	extention	audit	mm/	уууу



8.3 Audit plan as implemented including:

		Dates	Locations
8.3.1	Desk Reviews		
		Jan-21	Auditor offices
8.3.2	Onsite audits		The audit has been conducted remotely. Onsite realtime
			locations and clients home offices. Auditors in home
		January 26th	offices.
		, to 29th	
8.3.3	Stakeholder interviews and Community meetings		None requested
8.3.4	Draft report sent to client	12/3/2021	SGS Offices
8.3.5	Draft report sent to ASC	15/3/2021	SGS Offices
8.3.6	Final report sent to Client and ASC	10/5/2021	SGS Offices
	-		

Names and affiliations of individuals 8.4 consulted or otherwise involved in the audit including: representatives of the client, employees, contractors, stakeholders and any observers that participated in the audit.

Kristin Storry, Certification Manager, Grieg Seafood BC Ltd. David Minato, Certification Specialist, Grieg Seafood BC Ltd. Tim Hewison, Fish health manager, Grieg Seafood BC Ltd. Delia Harsan, HR dept, Grieg Seafood BC Ltd. Mihaela Cicocan, HR generalist, Grieg Seafood BC Ltd

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

Name of stakeholder (if permission given to make name nublic)	Relevance to be contacted	Date of contact	CAB responded Yes/No	Brief summary of points Raised	Use of comment by CAB	Response sent to stakeholder
		1				





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

Audit report- ASC Salmon Standard v.1.3

	Addit report- AGC Salmon Standard V.1.5		Corresponds to Salmon standard v. 1.3	I	
		PRIN	CIPEE 1: COMPLY WITH ALL APPLICABLE MATIONAL LAWS AND LOCAL REGULATIONS		
			1.1 Compliance with all applicable local and national legal requirements and regulations		
	Indicator	Compliance Criteria (Use as guidance for audit only)	Audit evidence 1. Write down all audit evidence. Audit evidence (including evidence of conformity and nonconformity) should be recorded so that the audit can be repeated by a different audit team. 2. Replace explanatory text. 3. If you see any Compliance Criteria which is not listed below, please describe also in the cells below. A. Review compliance with applicable land and water use laws.	Evaluation (Per indicator, select one category in the drop-down menu)	ion of Prov
1.1.1	Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use Requirement: Yes Applicability: All	a. Maintain digital or hard copies of applicable land and water use laws. b. Maintain original (or legalised copies of) lease agreements, land titles, or concession permit on file as applicable. C. Keep records or inspections for compliance with national and local laws and regulations (if such inspections are legally required in the country of oneration). d. Obtain permits and maps showing that the farm does not conflict with national preservation areas.	Details of licencing provided in the form of original copies. No conflict with national preservation areas. Reference the supplied Impact assessment dated October 2020. This assessment included maps of all preservation areas. The closest marine provincial park is Nuchatlitz Park which is over 12km distance. Inspection by the Department of your aquaculture facility: Licence #122156, Esperanza on September 16, 2020, at the time of inspection, the Department identified no deficiencies related to the Condition(s) of licence #122156, Esperanza on September 16, 2020, at the time of inspection, the Department identified no deficiencies related to the Condition(s) of licence #122156, Esperanza on September 16, 2020, at the time of inspection, the Department identified no deficiencies related to the Condition(s) of licence #122156, Department 25, 2020, Expiry Date: Jun 30, 2022 facility number: 1863 Pacific Fishery Management Area: 25 Pacific Fishery Management Separad, Area: 9 Landille Number: 1411131 Site common name: Esperanza, Hecate Channel Ulcence Holder: Grieg Seafood BC Ltd. 's Esperanza, Hecate, Steamer and Lutes Creek aquaculture facilities located in Hecate Channel shall not exceed 11,200 tonnes at any given time and the production at this farm (Facility Ref. No. 1863) shall not exceed the approved peak biomass authorized on the face page of this licence.	Compliant	
1.1.2	Indicator: Presence of documents demonstrating compliance with all tax laws Requirement: Yes Applicability: All	a. Maintain records of tax payments to appropriate authorities (e.g. land use tax, water use tax, revenue tax). Note that CABs will not disclose confidential tax information unless client is required to or chooses to make it nublic. b. Maintain copies of tax laws for jurisdiction(s) where company operates. c. Register with national or local authorities as an "aquaculture activity".		Compliant	
1.1.3	Indicator: Presence of documents demonstrating compliance with all relevant national and local labor laws and regulations Requirement: Yes Applicability: All	a. Maintain copies of national labor codes and laws applicable to farm (scope is restricted to the farm sites within the unit certification.) b. Keep records of farm inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation).	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 \$14.60 per hour (as of June 1, 2020)	Compliant	
1.1.4	Indicator: Presence of documents demonstrating compliance with regulations and permits concerning water quality impacts Requirement: Yes Applicability: All	 Compile list of and comply with all discharge laws or regulations. C. Maintain records of monitoring and compliance with discharge laws and regulations as required. 	DFO have authored the Aquaculture Activities Regulations guidance document for Owners and operators August 2015. Annex 8 Program protocols for Marine Finfish environmental monitoring in BC. Sampling within 30 days of peak biomass. DE POMOD is approved as a modelling tool. Sulphide is the required parameter to be monitored. The limits are <1300 at 30 meters from cage edge and <700 um at 125m from cage edge. If the bottom is hard then a video transect of the bottom is conducted from 80m to 140m from the cage edge looking for opportunistic worn contiones. Sample fueretions are on the dominant and subdominant direction of the current. Below the threshols then the site can be re-stocked. If above the levels, then re-sampling must take place until levels are blow the required metric and then re-stocking can take place. Letter from POS, stating compliance to the bothic requirements, is sent to the company following sampling and results. Details in Principal 2 of this audit report.	Compliant	
			Criterion 2.1 Benthic biodiversity and benthic effects [1]		
Footnote	[1] Closed production systems the	at can demonstrate that they collect and responsibly di	spose 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.	
	ents and CABs on Criterion 2.1 - Modification of the Benthic Sampling Methodology	w request to modify the benthic sampling methodolog	v prescribed in Appendix I-1 to allow for sampline at different locations and/or changes in the total number of samples. Where modifications are sought, farms shall provide a full		

For farms located in a jurisdiction where specific benthic sampling locations are required under law, clients may request to modify the benthic sampling methodology prescribed in Appendix I-1 to allow for sampling at different locations and/or changes in the total number of samples. Where modifications are sought, farms shall provide a full jurisdiction to the CAB for review. Requests for modification shall be supported by mapping of differences in sampling locations. In any event, the sampling locations must at a minimum include samples from the cage edge and samples taken from inside and outside of a defined AZE.

CABs shall evaluate client requests to modify benthic methodology based on whether there is a risk that such changes would jeopardize the intent and rigor of the ASC Salmon Standard. If the CAB determines that proposed modifications are low risk, the CAB shall ensure that details of the modified benthic sampling methodology are fully described and justified in the audit report.

Fig. 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1							
Image: state in the s			Note: Under Indicator 2.1.1, farms can choose to meas	ure redox potential (Option #1) or sulphide concentration (Option #2). Farms do not have to demonstrate that they meet both threshold values.			
$ \mathbf{x}_{1} \mathbf{x}_{2} \mathbf{x}_{2}$			AZE (30 m) and GPS locations of all sediment collections stations. If the farm uses a site-specific				
$ \left[$			provide evidence to the CAB and request an exemption from 2.1.1c-f, 2.1.2 and 2.1.3.				
1/1 Find Statistic Exclusion statistics of a statistic statistic statistic statistics of a statistic statistic statistic statistics of a statistic statistic statistics of a statistic statistic statistic statistics of a statistic statistic statistic statistic statistics of a statistic statistic statistic statistics of a statistic statistic statistics of a statistic statistic statistics of a statistic statistic statis a statis statistics of a statistic statistic statis		of Effect (AZE) [3], following the sampling methodology outlined in Appendix I-1	or option #2 to demonstrate compliance with the requirements of the Standard.	This site and its associated zone of effect is a hard hollow site. To that end the subhides cannot be measured and the DEO guidelines require a video transect to establish that the			
1 Image: Construction of the standing of the sta	2.1.1	or Sulphide ≤ 1,500 μм₀/L	d. Collect sediment samples in accordance with the methodology in Appendix I-1 (i.e. at the time of peak cage biomass and at all required stations).	zone of effect is acceptable to allow re-stocking. This video transect survey is place for the previous year class effects prior to stocking the site for the current stock on site. The survey date was July 16th 2019. Letter from DFO stating that 'No further monitoring is required prior to fish entry at this facility and dated September 2019. Ministream biological conducted the video transects. Beggiata occurring more than 10 % of the substrate was not observed in for our out of six time units or in the last two time units	N/A	therefore Sulphide or Redox	
here here <td< td=""><th></th><td>Arppinsonny. An na mis except os notes in [1]</td><td> e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing </td><td>on a sequence at or depoind the zone of Compliance on Fransect B. OPC was not boser red on Fransect B burning the video solvey at the esperanza site on July 16, 2015.</td><td></td><td></td><td></td></td<>		Arppinsonny. An na mis except os notes in [1]	 e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing 	on a sequence at or depoind the zone of Compliance on Fransect B. OPC was not boser red on Fransect B burning the video solvey at the esperanza site on July 16, 2015.			
Image: Control (Control (Contro(Control (Contro((Control (Control (Control (Control (Control (Con			concentration (µM) using an appropriate, nationally				
1000000000000000000000000000000000000			least once for each production cycle. If site has hard				
Note: Note: <th< th=""><th>Footnote</th><th></th><th>[2] Farm si</th><th>tes can choose whether to use redox or sulphide. Farms do not have to demonstrate that they meet both.</th><th></th><th></th><th></th></th<>	Footnote		[2] Farm si	tes can choose whether to use redox or sulphide. Farms do not have to demonstrate that they meet both.			
 A partial for the constraint of the	Footnote	[3] Allowable Zone of Effect (AZE) is do	efined under this standard as 30 meters. For farm sites w	where a site-specific AZE has been defined using a robust and credible modeling system such as the SEPA AUTODEPOMOD and verified through monitoring, the site-specific AZE shall be	used.		
 And the same index of the same inde			- Under Indicator 2.1.2, farms can choose one of four m to demonstrate that they meet all four threshold value	5.			
 And there is used in decision of the independent of the i							
 Indicator: Family index core: indicating and (1) to high ecological quality in quality expansion: ecological quality expansion: ecological quality in quality expansion: ecological quality ecological quality ecological quality expansion: ecological			#2, #3, or #4 to demonstrate compliance with the requirement.				
 And option 2, measure, diculate and record 3, in the required method. And option 4, measure, diculate and record 5, sing the required method. Applicability: All fams except as noted in [1] Appli							
Final Proprint Index (TI) score 2.5 dS Shannon-Went Prodex Score of sediment samples using the requirem reduces. N/A N/A N/A Applicability: All farms except as noted in [1] For option 43, measure, calculate and record infaunal Trophic Index (TI) score 2.5 dS N/A N/A N/A Applicability: All farms except as noted in [2] For option 43, measure, calculate and record infaunal Trophic Index (TI) score 2 of sediment samples using the requirem rethod. For option 43, measure, calculate and record infaunal Trophic Index (TI) score 2 of sediment samples using the requirem rethod. N/A N/A N/A Is bannon.Weight of the sediment samples using the requirem rethod. For option 43, measure, calculate and record infaunal Trophic Index (TI) score 2 of sediment samples using the requirem rethod. N/A N/A N/A N/A N/A Is bannon.Weight of the sediment samples using the requirem rethod. For option 43, measure, calculate and record infaunal Trophic Index (TI) score 2 of sediment samples using the requirem rethod. N/A N/A N/A N/A N/A Is bannon.Weight of the samples using the requirem rethod. For option 43, measure, calculate and record infaunal Trophic Index (TI) score 2 of sediment samples using the requirem rethod. For option 43, measure, calculate and record infaunal Trophic Index (TI) score 2 of sediment samples using the requirem rethody score 2 of sediment samples uscore 2 of sediment s	2.1.2	Requirement: AZTI Marine Biotic Index (AMBI [5]) score ≤ 3.3, or	Marine Biotic Index [5] score of sediment samples using the required method.				
For out		Infaunal Trophic Index (ITI) score ≥ 25	Shannon-Wiener Index score of sediment samples using the required method.		N/A		
Foto: [1] "Got" Elocytarily control contentent control control c		Applicability: All farms except as noted in [1]	Benthic Quality Index (BQI) score of sediment samples using the required method.				
Footnot were oblication: The level of diversity and about on y, obtain independent laboratory, obtain indepen			Infaunal Trophic Index (ITI) score of sediment samples using the required method.				
Footnote [ast once for each production cycle. [ast once for each production cycle. Footnote [4] "Good" Ecological Quality Classification: The level of diversity and abundance of invertebrate taxa is slightly outside the range associated with the type-specific conditions. Most of the sensitive taxa of the type-specific communities are present.			were obtained. If samples were analyzed and index calculated by an independent laboratory, obtain				
Footnote [5] http://www.azti.es/en/ambi-azti-marine-biotic-index.html.		[4] "Cood" Ecologi	eal Quality Classification. The lovel of diversity and abund	tance of invested taxa is clickly outside the same associated with the two-specific conditions. Must of the sensitive taxa of the two-specific communities are resent			
	Footnote	[4] GOOD ECOOD	cal quality classification. The level of diversity and abund	ance of invertebrate taxa is signify outside the range associated with the type-specific contractors. Nost of the sensitive taxa of the type-specific continuities are present.			

2.1.3 Footnote	Indicator: Number of macrofaunal taxa in the sediment within the AZE, following the sampling methodology outlined in Appendix I-1 Requirement: 2 2 highly abundant [6] taxa that are not pollution indicator species Applicability: All farms except as noted in [1]	which ones (if any) are poliution indicator species. d. Retain documentary evidence to show how taxa were identified and how counts were obtained. If samples were analyzed by an independent lab, obtain copies of results. e. Submit counts of macrofaunal taxa to ASC (Appendix VI) at least once for each production cycle.	VR nr. 224 approved November 2018 by ASC on indicator 2.1.2 and 2.1.3 Rationale for use: BC salmon farms have been granted a variance to indicators 2.1.2 and 2.1.3 and instead rely on the scientifically proven and federally regulated sulphide surrogates.	N/A	
2.1.4	Indicator: Definition of a site-specific AZE based on a robust and credible modelling system Requirement: Yes Applicability: All farms except as noted in [1]	 b. Maintain records to show how the analysis (in 2.1.4a) is robust and credible based on modeling 	DEPOMOD is required by DFO on sites in British Columbia. 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. Depomod is based on the amount of feed per cage per day. The Depomod was carried out in August 2011 however, there has been no change to the site since it was modelled and the stocking density and biomass has remained the same. The site is also in the same location. The model for this site was based on an average feed rate of 452kg/day. The DFO benthic survey requirement detailed in 2.1.1 uses DEPOMD for survey design.	Compliant	
Footnote	[7] Robust and credible: The Si	EPA AUTODEPOMOD modeling system is considered to b	- be an example of a credible and robust system. The model must include a multi-parameter approach. Monitoring must be used to ground-truth the AZE proposed through the model.		
			Criterion 2.2 Water quality in and near the site of operation [8]		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions): [8] See Appendix VI for transparency requirements for 2.2.1, 2.2.2, 2.2.3 and 2.2.5.		
221	Indicator: Weekly average percent saturation [9] of dissolved oxygen (DO) [10] on farm, calculated following methodology in Appendix I-4 Requirement: 2 70% [11] Applicability: All farms except as noted in [11]	Appendix I-4 presents the required methodology that I measurements may be taken with a handheld oxygen - equipment is calibrated according to manufacturers's - measurements are taken at least twice daily: once in - sainling and temperature must also be measured whe - sampling should be done at 5 meters depth in water - each week, all DD measurements are used in the calc If monitoring deviates from prescribed sampling methr that the CAB approve reduction of DD monitoring freq Exception [see footnote 12] If a farm does not meet th least 500 meters from the edge of the net pen array, ir agricultural rundf or nutrient releases from coastal co Note 1: Percent saturation is the amount of oxygen dis	recommendations; the morning (6 -9 am) and once in the afternoon (3-6 pm) as appropriate for the location and season; DO Is sampled; conditions that would be experienced by fish (e.g. at the downstream edge of a net pen array): ulation of a weekly average percent saturation. sodology, the farm shall provide the auditor with a written justification (e.g. when samples are missed due to bad weather). In limited and well-justified situations, farms may request		
2.2.1		on data. d. If any weekly average DO values are < 70%, or approaching that level, monitor and record DO at a reference site and compare to on-farm levels (see Instructions). e. Arrange for auditor to witness DO monitoring and calibration while on site. f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.	Oxygen readings are taken daily and then averaged weekly for ASC requirements. Reference site Oxygen is taken daily also. As there are 3 sites within the water body, the same reference station is used and its located approximately equal distance from the 3 sites and all 3 sites show similar partements to on site oxygen levels. Weekly averages were calculated and submitted to ASC. There were no missing samples during fish production. There are occasional low oxygen readings, which occur naturally in this geographic area. The site readings and reference station readings and reference station readings and reference station readings and reference station and other sites are accessional low oxygen readings, which occur naturally in this geographic area. The site areadings and reference station readings and reference station are are oxis of a readings below 70% and the site was back over 70% the following week. In all cases. Week 30 site weekly average was 69.57% and reference station was 77%. The difference makes sense when looking at the full range of readings that are provided in the transparency documents and consistency is met. Cheerally, the site is lower than the reference station sub fish is removing some of the background oxygen naturally. Average across the year was 86.26%. For two weeks the reference site itself fell below the 70% indicator threshold.	Compliant	
Footnote		เษา Percent saturation: Percent saturation is the a	imount of oxygen dissolved in the water sample compared to the maximum amount that could be present at the same temperature and salinity. [10] Averaged weekly from two daily measurements (proposed at 6 am and 3 pm).		
Footnote		[11] An exception to t	[10] Averaged weeksy from two daily measurements (proposed at 6 am and 3 pm).		

	Indicator: Maximum percentage of weekly samples from 2.2.1 that fall under 2 mg/L DO Requirement: 5% Applicability: All	 a. Calculate the percentage of on-farm samples taken for 2.2.1a that fall under 2 mg/L DO. b. Submit results from 2.2.2a as per Appendix VI to ASC at least once per year. 	There were no readings below 2mg/DD. Data was submitted to ASC.	Compliant		>5!
		a. Inform the CAB whether relevant targets and classification systems are applicable in the jurisdiction. If applicable, proceed to "2.2.3.b". If not applicable, take action as required under 2.2.4			While the Water Quality Assessment Report for the Esperanza Farm Sites, shows little effect on the water body from the farming activity.	
2.2.3	Indicator: For jurisdictions that have national or regional coastal water quality largets [12], demonstration through third-party analysis that the farm is in an area recently [13] classified as having "good" or "very good" water quality [14] Requirement: Yes [15] Applicability: All farms except as noted in [15]	b. Compile a summary of relevant national or regional	The company has commissioned a report into the water quality in the Esperenza farm sites area dated November 25th 2019 and carried out by Strategic Natural Resource Consultants. The report is a mixture of provincial historical sampling and site sampling over a 6 month period. The conclusion drawn from the report states "Water quality monitoring at the Esperanza, Hecate and Steamer farms, in Esperanza inlet, over an eight month period from May - December 2018, showed that all regional and national objectives for water quality were met. All sampled total intrate levels were below the maximum established by the Provincial Water Quality Guidelines (WQG), and well below those of the Canadian Council of Ministers of the Environment (CCME). This indicates that farming activities in Esperanza linet have had little impact on the water quality in the area. While the Water Quality Assessment Report for the Esperanza Farm Sites, shows little effect on the water body from the farming activity, sampling was from 2018. There is no evidence to show that the water body is still classified as having "good" or "very good" water quality.	Minor	sampling was from 2018. There is no evidence to show that the water body is still classified as having "good" or "very good" water quality. This is classified as a minor finding as it is not compliant to the indicator, but is not sufficiently serious to warrant a major finding, as it does not threaten the integrity of the standard.	
Footnote		c. Identify the most recent classification of water quality for the area in which the farm operates.	[12] Related to nutrients (e.g., N, P, chlorophyll A).			
Footnote			[13] Within the two years prior to the audit.			
Footnote		[14] Classifications of "good" and "very good" are us	ed in the EU Water Framework Directive. Equivalent classification from other water quality monitoring systems in other jurisdictions are acceptable.			
Footnote	[15] Closed production sys	tems that can demonstrate the collection and responsib	ele 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.			
	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and at a reference site, following methodology in Appendix I-5	a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-S. For first audits, farm records must cover ≥ 6 months.	See 2.2.3	N/A	See 2.2.3	
	Requirement: Consistency with reference site Applicability: All farms except as noted in [16]	 Calibrate all equipment according to the manufacturer's recommendations. 		.,,,		
		c. Submit data on N and P to ASC as per Appendix VI at least once per year.				
Footnote		[16] Farms shall monitor total N, NH4, N	03, total P and Ortho-P in the water column. Results shall be submitted to the ASC database. Methods such as a Hach kit are acceptable.			
225	Indicator: Demonstration of calculation of biochemical oxygen demand (BDD [17]) of the scaptured/filtered/absorbed to ASC along with method used on cumulative legination methodology: Boyd C. 2009. Estimating mechanical action requirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the World Aquaculture Society Meeting: Sept 25-29, 2009; VeraCru, Meeting: And: Calculation or pole first undergoing certification. If it is the first audit for the farm, the client is required to demonstrate to the CAB that data is being collected and an understanding of the calculation. Applicability: All: Note 2: Farms may seek an exemption to Indicator 22.5. If the farm collects BOD samples at least once every two weeks, samples are independently analyzed by an accredited laboratory, and the farm can show that BOD monitoring results do not deviate significantly from calculated Dascording to methodology.					
		b. Submit calculated BOD as per Appendix VI to ASC for each production cycle.		Compliant		

2.2.6	Indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicais, including veterinary drugs, thereby ensuring that adverse impacts on environmental quality are minimised. Requirement: Yes Applicability: All	a. Document control systems in good culture and hygene that includes all appropriate elements. b. Apply the systems ensuring that staff are aware, qualified and trained to proberly implement them.	site was reviewed during the audit taking fuels, chemical storage and spill preparedness into consideration. The site has adequate bunding for all chemicals and fuels. There are spill kits located about the storage areas. There is an annual spill drill exercise conducted annually on site. Staff are trained on chemical handling and hazard awareness. As of the 26th of January 2021 DATS showed the site was at a training level of 86% for all required training. The 5 staff members have all done the Fuel, Waste and Hazardous Materials Management SOP. The Emergency Preparedness & Response SOP. Drill was carried out on the 25th September 2020. Criterion 2.3 Nutrient release from production	Compliant		
		Compliance Criteria (Required Client Actions):	Auditor Svaluation (Required CAB Actions):			
			Note: The methodology given in Appendix I-2 is used to determine the fines (dust and small fragments) in finished product of fish feed which has a diameter of 3 mm or more.			
2.3.1	Indicator: Percentage of fines [18] in the feed at point of entry to the farm [20] (calculated following methodology in Appendix I-2) Requirement: < 1% by weight of the feed Applicability: All farms except as noted in [19]	 a. Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document rationale behind not testing on site. b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. c. Consuct test according to detailed methodology in Appendix I-2 and record results for the pooled sample for each quarter. For first audits, farms must have the science in the lab th method. 	VR 246 approved 17.1.18 by ASC on indicator 2.3.1 ASC accept fines results produced by Skretting and as an acceptable proxy to farm-level sampling. The EWOS feed company is EWOS feed RAPID 50 500 DERMIC 60A 1 1446344 0.03% DYNAMIC RED 8MM 30C/30A 0.00% RAPID 51 1000 50A 0.12% Skretting GR Express 1000 0.1% GR Express 2000.07% GR Express 3500 0.1%	Compliant		<1%
Footnote	[18] Fines: Dust and fragments in the feed. Particles that separate	from feed with a diameter of 5 mm or less when sieved	through a 1 mm sieve, or particles that separate from feed with a diameter greater than 5 mm when sieved through a 2.36 mm sieve. To be measured at farm gate (e.g., from feed bag	s after they are de	livered to farm).	
Footnote	[19] To be measured every quarter or every three months. Samples that are measured sh	nall be chosen randomly. Feed may be sampled immedia	ately 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 d nutrients (through biofiltration, settling and/or other technologies) are exempt.	isposal of > 75% o	f solid nutrients and > 50% of d	dissolved
			Criterion 2.4 Interaction with critical or sensitive habitats and species			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
		Note: If a farm has previously undertaken an indepe	ndent assessment of biodiversity impact (e.g. as part of the regulatory permitting process), the farm may use such documents as evidence to demonstrate compliance with Indicator 2.4 covered.	I.1 as long as all co	imponents in Appendix I-3 are i	explicitly
2.4.1	Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains at a minimum the components outlined in Appendix I-3 Requirement: Yes Applicability: All	a. Perform (or contract to have performed) a documented assessment of the farm's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3. b. If the assessment (2.4.1a) identifies potential impact(s) of the farm on biodiversity or nearby critical, sensitive or protected habitats or species, prepare plan to address those potential impacts. c. Keep records to show how the farm implements plan(s) from 2.4.1b to minimize potential impacts to critical or sensitive habitats and species.	Assessment in place and titled 'Grieg Seafood Impact Assessment – Esperanza October 2020'. Species of animal and birds that are classed as endangered or critically endangered are Isted. Also protected areas and maps showing the farm locations and layouts are in the assessment. The closest Marine park is over 12 miles away and is called Nuchatilit Park. The report concludes that '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.' Species noted in report: Brachymamphus marmoratus Marbled Murrelet Bird Endangered Enhydrol Jutris Sea Otter Mammal Endangered Dermochelys coriacea Leatherback Turtle Vulnerable Haliotis kamtschatkana Northern Abalone Gastropod Endangered	Compliant		

		The following exceptions shall be made for Indicator 2.4. Exception #1: For protected areas classified by the Intern Exception #2: For HCVAs if the farm can demonstrate tha not negatively impacting the core reason an area has bee Exception #3: For farms located in a protected area if it w objectives of the protected area and it is in compliance w demonstrate that it is not negatively impacting the core or Definitions .	national Union for the Conservation of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes or for sustainable resource management). at its environmental impacts are compatible with the conservation objectives of the HCVA designation. The burden of proof would be placed on the farm to demonstrate that it is en identified as a HCVA. 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 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		
2.4.2	Indicator: Allowance for the farm to be sited in a protected area [20] or High Conservation Value Areas [21] (HCVAs) Requirement: None [22]		where conservation values are considered to be of outstanding significance or critical importance. HCVA are designated through a multi-stakeholder approach that provides a es—both social and environmental—and for planning ecosystem management in order to ensure that these high conservation values are maintained or enhanced		
	Applicability: All farms except as noted in [22]		teviewed GIS file with all the layers in place showing the location of protected areas and HVCA's. The site is not in any of them. The site along with the other 3 Grieg sites in the vater body were all established between 2006 and 2008.	Compliant	
Footnote	[20] Protected area: "A clearly defined geographical space, recognized, dedicated and	I managed through legal or other effective means, to achie	ieve the long-term conservation of nature with associated ecosystem services and cultural values." Source: Dudley, N. (Editor) (2008), Guidelines for Applying Protected Area Manager	ment Categories,	Gland, Switzerland: IUCN. x + 86pp.
Footnote	[21] High Conservation Value Areas (HCVA): Natural habitats where conservation values an		nportance. HCVA are designated through a multi-stakeholder approach that provides a systematic basis for identifying critical conservation values—both social and environmental—ar at these high conservation values are maintained or enhanced (http://www.hcvnetwork.org/).	nd for planning e	cosystem management in order to ensure
Footnote	 For HCVAs if the farm can demonstrate that if 	s environmental impacts are compatible with the conserva- lready in operation and provided the farm can demonstration	[22] The following exceptions shall be made for Standard 2.4.2: the Conservation of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes or for sustainable resource management). ation objectives of the HCVA designation. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been identi tate 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 to of would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been protected.		uit of the formation/designation of the
			Criterion 2.5 Interaction with wildlife, including predators [23]		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote			[23] See Appendix VI for transparency requirements for 2.5.2, 2.5.5 and 2.5.6.		
2.5.1	Indicator: Number of days in the production cycle when acoustic deterrent devices (ADDs) or acoustic harassment devices (AHDs) were used Requirement: 0 Applicability: All	ADDs or AHDs have been used by the farm.	This site was not visited directly during this audit due to Covid, however, no ADD's for marine mammals are allowed in British Columbia. The farm and company have declared that hey do not use ADD's.	Compliant	٥
		-			

2.5.2	Indicator: Number of mortalities [25] of endangered or red-listed [26] marine mammals or birds on the farm Requirement: 0 (zero) Applicability: All	c. Maintain a record of all mortalities of marine mammals and birds on the farm identifying the species, date, and apparent cause of death. d. Maintain an up-to-date list of endangered or red- listed marine mammals and birds in the area (see 2.4.1) -	There are no predator control devices on site. The site is BAP certified as well and the site has a wildlife interaction plan and they log all interactions. Exclusion devices include top nest for bird exclusion. An electrified wire to stop sealion haul outs and an external predator net to prevent sealion and seal fish attacks. There have been no reditsted animal or bird mortalities. Ust of endangered or red-listed marine mammals and birds in the area is present in the sites biodiversity assessment. The list is checked for updates annually. There have been no bird or animal mortalities in the past 2 years. In the event of an animal or bird incident, the company currently does not identify down to species level. This could impact on the cross referencing the list of endangered or red-listed marine mammals and birds in the area.		In the event of an animal or bird incident, the company currently does not identify down to species level. This could impact on the cross referencing levels its of endangered or red-listed marine marmaks and birds in the area. This is classified as a minor finding as it is not compliant to the indicator, but is not sufficiently serious to warrant a major finding, as it does not threaten the integrity of the standard.
Footnote			les animals intentionally killed through lethal action as well as accidental deaths through entanglement or other means.		
Footnote		[26] Sp a. Provide a list of all lethal actions that the farm took	ecies listed as endangered or critically endangered by the IUCN or on a national endangered species list.		
2.5.3	Indicator: Evidence that the following steps were taken prior to lethal action [27] against a predator: 1. All other avenues were pursued prior to using lethal action 2. Approval was given from a senior manager above the farm manager 3. Explicit permission was granted to take lethal action against the specific animal from the relevant regulatory authority Requirement: Yes [28] Applicability: All except cases where human safety is endangered as noted in [28]	against predators during the previous 12-month period. Note: Tethal action's an action taken to deliberately kill an animal, including marine mammals in kind and the second second second second second tecord of the following: 1) a rationale showing how the farm pursued all other reasonable avenues prior to using lethal action; 2) approval from a secinor manager above the farm manager of the lethal action; 3) where applicable, explicit permission was granted by the calender axis and the period second second C Provide documentary evidence that steps 1-3 above (in 2.5.4b) were taken prior to killing the animal. If human safety was endangered and urgent action necessary, provide documentary evidence as nutlined in 128	There have been no leftal actions taken against predators. See 2.5.2 From the SOP on wildlife interaction and dated March 2020: "Griege Seafood BC Ltd endeavours to control the harmful effects of predators and pests on stock at all sites via non-leftal means. To that end, the company adopts the approaches of first, avoiding attraction of predators; and second, passive exclusion. Lethal control will only be considered when there is likely to be a breach of the containment structure, or if there is concern for human safety." Also its stated that: '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)."	Compliant	
Footnote		[27] Lethal action: Action taken to deliberately kill an animal, including marine mammals and birds.		
Footnote	[28] Exception	to these conditions may be made for a rare situation w	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.		
		ions as well as entanglements or other accidental morta Total number of lethal incider is and the number of lethal incidents reported by the fa	d CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clarification about the ASC Definition of "Lethal Incident" littles of non-aimonids [footnote 29]. For the purpose of assisting farms and auditors with understanding how to evaluate compliance with Indicators 2.5.4, 2.5.5, and 2.5.6, ASC has clar ts = sum of all non-salmonid deaths arising from all lethal actions taken by the farm during a given time period rm. For example, if a farm has taken one (1) lethal action in past last two years and that single lethal action resulted in killing three (3) birds, it is considered three (3) lethal incidents with any predatory animals which are likely to try to feed upon farmed salmon. In practice these animals will usually be seals or birds.		
2.5.4	Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29] Requirement: Yes Applicability: All	a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence. b. Ensure that information about all lethal actions listed in 2.5.4 are made easily publicly available (e.g. on a website).	Records are available on the Grieg website at https://www.griegseafoodcanada.com/our-environment/information-sharing/ The SOP on Wildlife interaction states: 'All mortality incidents must be posted to the Greig website within 30 days of the incident.'	Compliant	
Footnote		[29] Posting results on a public website is an e	xample of "easily publicly available." Shall be made available within 30 days of the incident and see Appendix VI for transparency requirements.		
2.5.5	Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years Requirement: < 9 lethal incidents [31], with no more than two of the incidents being marine mammals Applicability: All	a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, > 6 months of data are required. b. Calculate the total number of lethal incidents and the number of incidents involving marine mammals during the previous two year period. c. Send ASC the farm's data for all lethal incidents [30] of any species other than the salmon being farmed (e.g. lethal incidents involving marine mammals). Data must be sent to ASC on an ensonine hask (i.e., at least once was and from a second to ASC on an ensonine hask (i.e., at least once was and from the salmon being farmed to a second to ASC on an ensonine hask (i.e., at least once was and from the salmon being the same to ASC on an ensonine hask (i.e., at least once was and from the same to ASC on an ensonine hask (i.e., at least once was and from the same to ASC on an ensonine hask (i.e., at least once was and from the same to ASC on an ensonine hask (i.e., at least once was and from the same to ASC on an ensonine hask (i.e., at least once was and from the same to ASC on an ensonine hask (i.e., at least once was and from the same to ASC on an ensonine hask (i.e., at least once was and from the same the same to ASC on an ensonine hask (i.e., at least once was and from the same the same the same thask (i.e., at least once was and from the same thask (i.e., at least once was and for the same		Compliant	0
Footnote		[30] Lethal i	ncident: Includes all lethal actions as well as entanglements or other accidental mortalities of non-salmonids.		
Footnote		[31] Standard 2.5.6 applicable	to incidents related to non-endangered and non-red-listed species. This standard complements, and does not contradict, 2.5.3.		

PULATIONS	
35]	
rine) environment are exempt from the standards under Criterion 3.1.	
3.1.4, 3.1.6 and 3.1.7.	
, : na .3,	PRUGATIONS ; 35] narine) environment are exempt from the standards under Criterion 3.1. 3, 3.1.4, 3.1.6 and 3.1.7. ms are only eligible for exemption from Criterion 3.1 if it can be shown that either of the following holds:

2) any effluent released by the farm to the natural environment has been effectively treated to kill pathogens (e.g. UV and/or chemical treatment of water with testing demonstrating efficacy).

Auditors shall fully document the rationale for any such exemptions in the audit report.

3.1.1	Indicator: Participation in an Area-Based Management (ABM) scheme for managing disease and resistance to treatments that includes coordination of stocking, fallowing, therapeutic treatments and information-sharing. Detailed requirements are in Appendix II- 1. Requirement: Yes Applicability: All except farms that release no water as noted in [32]	 therapeutic treatments; and information sharing. 	VR 146 approved by ASC on indicator 3.1.1, Rationale for use of the VR is to address the impact of disease transmission of salmon farms on wild salmon in a collective approach. There are a total of 4 GRIG operated sites in the waterbody with no other companies within 75 miles. GRIEG internally co-ordinate the sites for stocking, fallowing and medicinal purposes if required. Fallow dates were 107 Days (6/20/2019-10/6/2019).	Compliant	
			a commitment to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks. If the farm does not receive the farm may demonstrate compliance by showing evidence of commitment through other proactive means such as published policy statements or directed outreach to relevant		
3.1.2	Indicator: A demonstrated commitment [34] to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks Requirement: Yes Applicability: All except farms that release no water as noted in [32]	- granting researchers direct access to farm sites; or	There are multiple areas of research that the company is engaged in. University of BC, University of PEI, Memorial university NF and Cargill they are looking at Complex Gill Disease in Salmon. The industry in BC is providing Crawford Review with Sea lice data to establish trends and make details publicly available. The applicant is looking at a request for environmental data from the University of Waterloo.	Compliant	
		denies a request to collaborate on a research project, ensure that there is a written justification for rejecting the proposal.	The applicant is a wember of the BC salmon farmers and has been and will be involved in any research conducted through that forum.		
		d. Maintain records from research collaborations (e.g. communications with researchers) to show that the farm has supported the research activities identified in 3.1.2a.			
Footnote	[34] Commitment: At a r	ninimum, a farm and/or its operating company must de	monstrate this commitment through providing farm-level data to researchers, granting researchers access to sites, or other similar non-financial support for research activities.		

3.1.3	Indicator: Establishment and annual review of a maximum sea lice load for the entire ABM and for the individual farm as outlined in Appendix II-2 Requirement: Yes Applicability: All except farms that release no water as noted in [32]	a. Keep records to show that a maximum sea lice load has been set for: the entire ABM; and - the individual farm. b. Maintain evidence that the stabilished maximum sea lice load (3.1.2a) is reviewed annually as outlined in Appendix II-2, incorporating feedback from the monitoring of wild salmon where applicable (See 3.1.6). c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate whether the ABM has set (3.1.3a) and annually reviewed (3.1.3.b) maximum sea lice load in compliance with requirements in Appendix II-2. d. Submit the maximum sea lice load for the ABM to ASC as per Appendix VI at least once per year.	There are 4 Grieg sites within the waterbody of which 3 are active. They are Esperenza, Hecate and Steamer. The sea lice load is declared as a maximum of 3 motile lice per fish and at full stocking density that would be 2,345,028 lice with a total ABM lice load of 6,204,927 motile lice.	Compliant		
31.4	Indicator: Frequent [35] on-farm testing for sea lice, with test results made easily publicly available [36] within seven days of testing Requirement: Yes Applicability: All except farms that release no water as noted in [32]	 a. Prepare an annual schedule for testing seal lice that identifies timeframes of routine testing frequency (at a minimum, monthly) and for high-frequency testing (veekly) due to sensitive periods for wild salmonids (e.g. during and immediately prior to outmigration of juveniles). b. Maintain records of results of on-farm testing for sea lice. If farm deviates from schedule due to weather [35] maintain documentation of event and rationale. c. Document the methodology used for testing sea lice ('testing' includes both counting and identifying sea lice). The method must follow national or international norms, follows accepted minimum sample size, use random sampling, and record the species and life stage of the sea lice. If farm uses a doced production system and would like to use an alternate method (i.e. video), farm shall provide the CAB with details on the method and efficacy of the method. d. Make the testing results from 3.1.4b easily publicly available (e.g. posted to the company's website) within seven days of testing. If requested, provide stakeholders access to hardcopies of test results. e. Reg records of when and where test results were made public. f. Submit test results to ASC (Appendix VI) at least once per year. 	Counting of sea lice is carried out according the SW SOP on Sea Lice counting dated September 2020 and according to the DFO licence requirements. Non-migration Window: July 1 – January 31. Sampling will be conducted once a month on every site unless an acceptable reason for not sampling is provided. Monthly sampling at each site will be conducted in three pens; a total of 20 fish per pen (site total = 60 fish). Sampling must be completed by the 20th of each month during this time period. Pre-migration Window: February 1 – February 28 (or 29). All stocked Containment Structures are assessed at least once by conducting two Counting Events (completed within a 5 day window), each of which includes a minimum of three Containment Structures. Out-migration Window: March 1 – June 30. During the period from March 1st to June 30th sampling frequency will be increased to once per week (60 fish per sample unless an acceptable reason for not sampling is provided and documented). - conduct Counting Events (counts completed within a 5 day window) on a minimum of three stocked Containment Structures within the first week of the Window, and once every two weeks thereafter throughout the Window; and - if the sea lice threshold is exceeded: - within 7 days too Discovery, conduct a Counting Event on all stocked Containment Structures It further quotes that 'Data must be entered within 24 hrs of sampling (for ASC it must be posted to the website within 7 days of sampling).'	Compliant		
Footnote	[35] Testing must be weekly during and immediately prior to sensitive periods for wild	I salmonids, such as outmigration of wild juvenile salmo	n. Testing must be at least monthly during the rest of the year, unless water temperature is so cold that it would jeopardize farmed fish health to test for lice (below 4 degrees C). With monitoring sea lice, such as video monitoring, may be used.	in closed production sy	stems, alternative method	ds for
Footnote			[36] Posting results on a public website is an example of "easily publicly available."			

3.1.5	Indicator: In areas with wild salmonids [37], evidence of data [38] and the farm's understanding of that data, around salmonid migration routes, migration timing and stock productivity in major waterways within 50 kilometers of the farm Requirement: Yes	likely to come from government sources or from rease region, as such information is needed to make manage This Indicator requires collection and understanding of subpopulation. Information should relate to the wild fi Wild Salmon Policy is an example of an appropriate fish For purposes of these standards, "areas with wild salm the northern hemisphere [3]). Potentially affected spe "areas with wild salmonids" even if salmon have escap Farms do not need to conduct research on migration of	oncluded that relevant data sets on wild salmonic health and migration are publicly available in the vast majority of, if not all, jurisdictions with wild salmonids. The information is rich institutions. Therefore farms are not responsible for conducting this research themselves. However farms must demonstrate that they are aware of this basic information in their ment decisions related to minimizing potential impact on those wild stocks.		
	Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	(range of months for juvenile outmigration and returning salmon), life history timing for coastal resident salmonids, and stock productivity over time	There are 7 wild salmonid species, that at some stage are in the Marine environment, during the year. Some of the species are within the coastal waters all year round. 5 are Pacific salmon, one is the Rainbow trout and the last is the Cuthroat Trout The government completely controls the salmon fising seasons, the sensitive periods have rours of this in order to inform the public and fishermen for each species. Sensitive periods have been established and extend for 3 months. All the staff are well aware of the salmon runs as they all fish for salmon for sport and food. Wild salmon migration information was made available through the website http://www.pac.dfo-mpo.gc.ca/fm-gp/salmon-saumon/facts- infos-eng.html	Compliant	
Footnote	[37] For purposes of these st	andards, "areas with wild salmonids" are defined as area	as within 75 kilometers of a wild salmonid migration route or habitat. This definition is expected to encompass all, or nearly all, of salmon-growing areas in the northern hemisphere.		
Footnote	[38] Farms do not need to conduct research on migration routes, timing and the health of t	wild stocks under this standard if general information is a	already available. Farms must demonstrate an understanding of this information at the general level for salmonid populations in their region, as such information is needed to make ma on those stocks.	anagement decisi	ons related to minimizing potential impact
3.1.6	Indicator: In areas of wild salmonids, monitoring of sea lice levels on wild out-migrating salmon juveniles or on coastal sea trout or Arctic char, with results made publicly available. See requirements in Appendix III-1. Requirement: Yes Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	monitoring of sea lice on wild salmonids. C. Provide the CAB access to documentation which is sufficient for the auditor to evaluate whether the methodology used for monitoring of sea lice on wild salmonids is in compliance with the requirements in <u>Anneative list</u> . d. Make the results from 3.1.6b easily publicly available (e.g. posted to the company's website) within eight weeks of completion of monitoring. e. Submit to ASC the results from monitoring of sea lice levels on wild salmonids as per Appendix VI.	Wild Juvenile Salmonid, Monitoring Program 2020, Esperanza Inlet, BC, Report Date: July 2, 2020. Sample dates in March, April and May. The monitoring was carried out by Mainstream biological. The report states 'Beach seine sampling was conducted on behalf of Grieg Seafood at 10 sites in Esperanza Inlet, BC in 2020. Sampler date to monitor sea lice abundance, preventience and intensity on juvenile wild aisomo within Esperanza Inlet, BC in Speranza Inlet, BC in 2020. Sampler date to monitor sea lice abundance, preventence and intensity on juvenile wild aisomo within Esperanza Inlet, BC in 2020. Sampling was completed to monitor sea lice should be abundance, preventence and intensity on juvenile wild abund the salmond intensity abundance abureds. The state report represents the seventh year of wild juvenile salmonid monitoring within Esperanza Inlet. ' Furthermore, 'Chum salmon smolts were captured, 31 were kept for iab analysis for sea lice infestation. A total of 509 chum salmon were captured, represent the salmositi monitoring in a calculated prevalence of 6.8 %, abundance of 0.12 and an average intensity of 1.7 for the chum salmon sample population. No sea lice were found on the single chinook salmon sample collected in Esperanza Inlet in 2020.' The report is posted on the companies website at https://www.griegseafoodcanada.com/our-environment/wild-salmon/	Compliant	
3.1.7	Indicator: In areas of wild salmonids, maximum on-farm lice levels during sensitive periods for wild fish [39]. See detailed requirements in Appendix II, subsection 2. Requirement: 0.1 mature female lice per farmed fish Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	hefore	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. The DFO requirements have a trigger level for Lice set at 3 motile Lice. Sensitive period in the region is set from March 1st to June 30th. Results show that for the count on June 20th 2020 the Lice count was just over the trigger level at 3.07. However, by the following week the entire farm level was at 2.55. Under the DFO conditions the farms have 4.2 days to get the Lice Levels below trigger level when they are exceeded. The average Lice levels over the entire sensitive period was well below 3 motile Lice. A SLICE treatment was begun, for all pens, on the 11th June 2020. The farm was over the trigger level of 3 motile lice, on one occasion, during the sensitive period.	Minor	The farm was over the trigger level of 3 motile lice, on one occasion, during the sensitive period. This is classified as a minor finding as it is not compliant to the indicator, but is not sufficiently serious to warrant a major finding, as it does not threaten the integrity of the standard.
Footnote			tive periods for migrating salmonids is during juvenile outmigration and approximately one month before. Criterion 3.2 Introduction of non-notive species		
		Compliance Criteria (Required Client Actions):	Criterion 3.2 Introduction of non-native species Auditor Evaluation (Required CAB Actions):		
		the U.S. and Canada). Appendix II-1A elaborates furthe	fined as a contiguous body of water with the bio-chemical and temperature profile required to support the farmed species' life and reproduction (e.g. the Northern Atlantic Coast of or on this definition: "The boundaries of an area should be defined, taking into account the zone in which key cumulative impacts on wild populations may occur, water movement and ction." The intent is that the area relates to the spatial extent that is likely to be put at risk from the non-native salmon. Areas will only rarely coincide with the boundaries of		

321	Applicability: All farms except as noted in [40]	of sterility effectiveness.	1972: First Atlantic salmon farm on the Pacific Coast established in Puget Sound by Conrad Mahnken and the National Marine Fisheries Service. The salmon were obtained from Canadian fish in the Gaspe Peninsula in the Gulf of St. Lawrence, from the Wizard Falls Hatchery in Oregon which had been raising salmon in ponds since the 1950s and using them to improve sport fishing in the area. Washington salmon farms obtained Atlantic eggs for their hatcheries from Mahnken's project and also from overseas broodstock from Western Europe. Ref 12 "The Net Pen Salmon Farming Industry in the Pacific Northwest." NOAA Technical Memorandum NMFS-NWFSC-49. Published September, 2001.	Compliant	
Footnote	[40] Exceptions shall be made for production systems that	at use 100 percent sterile fish or systems that demonstra	ate 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 rep	oduce.
3.2.2	Indicator: If a non-native species is being produced, evidence of scientific research [41] completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction and these results submitted to ASC for review [42] Requirement: Yes Applicability: All [43]	Farms are exempt from this standard if they are in a ju	with this standard from the time of publication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017). risdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met: eradication would be impossible or have ok place prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining.	Compliant	
Footnote		[41] The research must at a minimu	minclude multi-year monitoring for non-native farmed species, use credible methodologies and analysis, and undergo peer review.		
Footnote	[42] If the review demonstrates there is increased risk, the ASC will consider prohibiting th	e certification of farming of non-native salmon in that ju	risdiction under this standard. In the event that the risk tools demonstrate "high" risks, the SAD expects that the ASC will prohibit the certification of farming of non-native salmon in th future revision of the standard and those results taken forward into the revision process.	at jurisdiction. Th	e ASC intends to bring this evidence into
Footnote	[43] Farms are exempt from this standard if they are in a jurisdiction where the non-native	species became established prior to farming activities i	n the area and the following three conditions are met: eradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the species is fully self-sustaining.	Convention on Bi	ological Diversity (CBD) was ratified); the
3.2.3	Indicator: Use of non-native species for sea lice control for on-farm management purposes Requirement: None Applicability: All	a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice. b. Maintain records (e.g. invoices) to show the species name and origin of all fish used by the farm for purposes of sea lice control. c. Collect documentary evidence or first hand accounts as evidence that the species used is not non- native to the region.	None used.	N/A	None used.

			Criterion 3.3 Introduction of transgenic species		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
3.3.1	Indicator: Use of transgenic [44] salmon by the farm Requirement: None Applicability: All	a. Prepare a declaration stating that the farm does not use transgenic salmon. b. Maintain records for the origin of all cultured stocks including the supplier name, address and contact person(s) for stock purchases. c. Ensure purchase documents confirm that the	The applicant is a member of the Canadian Aquaculture Industry Organisation and they state 'Salmon farmer members of the Canadian Aquaculture Industry Alliance (CAIA) , representing virtually all farmed salmon in Canada, do not farm or sell GE farmed salmon, and are not growing or researching GE salmon.' Egg suppliers are Mowi Canada, who are local positioned and are both BAP certified.	Compliant	
Footnote	[44] Transgenic: Containing genes altered by insertion of DNA from an unrelated organis	culture stock is not transgenic.	another species to get that trait expressed in the offspring (reference USDA). Criterion 3.4 Escopes [47] Auditor Evaluation Required CA Actions):		
Footnote		compliance criteria (Required chent Actions).	[45] See Appendix V for transparency requirements for 3.4.1, 3.4.2 and 3.4.3.		
3.4.1	Indicator: Maximum number of escapees [46] in the most recent production cycle Requirement: 300 [47] Applicability: All farms except as noted in [47]	a. Maintain monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees. b. Aggregate cumulative escapes in the most recent production cycle. c. Maintain the monitoring records described in 3.4.1a for at least 10 years beginning with the production cycle for which fam is first applying for certification (necessary for farms to be eligible to apply for the exception noted in [47]). d. If an escape episode occurs (i.e. an incident where > 300 fish escaped), the farm may request a rere exception to the Standard [47]. Requests must provide a full account of the episode and must document how the farm could not have predicted the events that caused the escape episode. e. Submit escape monitoring dataset to ASC as per Appendix V on an ongoing basis (i.e. at least once per year and for each production cycle).		Compliant	0
Footnote	[46] Farms shall repo	rt all escapes; the total aggregate number of escapees per	production cycle must be less than 300 fish. Data on date of escape episode(s), number of fish escaped and cause of escape episode shall be reported as outlined in Appendix VI.		
Footnote	[47] A rare exception to this standard may be made for an escape event that is clearly d		uch 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 applyin easonable way to predict the events that caused the episode. See auditing guidance for additional details.	g for certification. The farmer must demonstrate	that the

3.4.2	Indicator: Accuracy [48] of the counting technology or counting method used for calculating stocking and harvest numbers Requirement: ≥ 98% Applicability: All	counting method used (as above).		Compliant	>98%
Footnote		[48] Accuracy shall b	e determined by the spec sheet for counting machines and through common estimates of error for any hand-counts.		
3.4.3	Indicator: Estimated unexplained loss [49] of farmed salmon is made publicly available Requirement: Yes Applicability: All	standard. a. Maintain detailed records for mortalities, stocking court, harvest count, and escapes (as per 3.4.1). b. Calculate the estimated unexplaned loss as described in the instructions (alove) for the most recent full production cycle. For first audit, farm must demonstrate understanding of calculation and the requirement to disclose EUL after harvest of the C. Make the results from 3.4.3b available publicly.		Compliant	
Footnote	[49] Calcula	ted at the end of the production cycle as: Unexplained l	oss = Stocking count - harvest count - mortalities - other known escapes. Where possible, use of the pre-smolt vaccination count as the stocking count is preferred.		
3.4.4		a. Prepare an Escape Prevention Plan and submit it to the CAB before the first audit. This plan may be part of a more comprehensive farm planning document as long as it addresses all required elements of indicator 3:14. The tarm operates an open (net pen) system, ensure the plan (3:4.4a) cover the following areas: -net strength testing: - appropriate net mesh size; - net traceability; - system robustness; - predator management; - record keeping; - reporting risk events (e.g. holes, infrastructure tssues, handling errors); - planning of staff training to cover all of the above		Minor	In reference to the 'Preparedness & Response Training presentation dated 30/10/2019. There is no reference to fish escape drills in this presentation. This is classified as a minor finding as it is not compliant to the indicator, but is not sufficiently serious to warrant a major finding, as it does not threaten the integrity of the standard.

		Compliance Criteria (Descrined Climet Anti-	Criterion 4.1 Traceability of raw materials in feed		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	ents for Indicators 4.1.1 through 4.4.2 - Sourcing of Responsibly Produced Salmon Feeds				
			cumentary evidence that the feed producers (see note 1) are audited at regular intervals by an independent auditing firm or a conformity assessment body against a recognized ledged by the ASC (see 4.1.1c below). Results from these audits shall demonstrate that feed producers have robust information systems and information handling processes to allow		
			reaged by the ASC (see 4.1.1.2 below), results non-interse adults shall be supported by the audits. Farms must also show that all of their feed producers are used informed of the		
	he ASC Salmon Standard relating to sourcing of responsibly produced salmon feed (see 4.1.1				
ition to the	above, farms must also show that their feed suppliers comply with the more detailed requir	ements for traceability and ingredient sourcing that are	specified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows farms to use one of two different methods to demonstrate compliance of feed producers:		
od #1: Farm	s may choose to source feed from feed producers who used only those ingredients allowed u	under the ASC Salmon Standards during the production	of a given batch of feed. For example, the farm may request its feed supplier to produce a batch of feed according to farm specifications. Audits of the feed producer will		
endently ve	rify that manufacturing processes are in compliance with ASC requirements.				
od #2: Farm	s may choose to source feed from feed producers who demonstrate compliance using a "ma	ss-balance" method. In this method, feed producers sh	w that the balance of all ingredients (both amount and type) used during a given feed production period meets ASC requirements. However, mixing of ingredients into the general		
nd product	on lines is allowed during manufacturing. Audits of the feed producer will independently ver		ASC requirements. The mass balance method can be applied, for example, to integrated feed production companies that handle all steps of feed manufacturing (purchasing of raw		
rials, proces	sing to finished feed, and sales) under the management of a single legal entity.				
1: The term	"feed producer" is used here to identify the organization that produces the fish feed (i.e. it is	s the "feed manufacturer"). In most cases, the organizat	ion supplying feed to a farm (i.e. the feed supplier) will be the same organization that produced the feed, but there may be instances where feed suppliers are not directly responsible		
	on. Regardless of whether the farm sources feeds directly from a feed producer or indirectly				
		a. Maintain detailed records of all feed suppliers and			
		a. Maintain detailed records of all feed suppliers and purchases including contact information and			
		purchase and delivery records.			
		b. Inform each feed supplier in writing of ASC requirements pertaining to production of salmon			
		feeds and send them a copy of the ASC Salmon			
		c. For each feed producer used by the farm, confirm	The feed company used is EWOS and Skretting. Both feed company's are aware of ASC standard as the company has informed them.		
		that all addit of the producer was recently done by an	Smolt suppliers are Gold River and Paradise Bay (Lena Creek).		
	Indicator: Evidence of traceability, demonstrated by the feed producer, of feed	audit firm or CAB against an ASC-acknowledged			
	ingredients that make up more than 1% of the feed [50].	recent audit report for each feed producer	EWOS has both BAP certification and Global GAP certification. The BAP code is M10028 and the certificate is valid until 22nd January 2021. Their Global GAP number is GGN/GLN: 4052852616218 and valid until August 2021.		
4.1.1	Requirement: Yes	d. For each feed producer, determine whether the	NOIZOIZOIZO BIILA VAINA MILLII AUGUST COLLY	Compliant	
		farm will use method #1 or method #2 (see Instructions above) to show compliance of feed	Skretting Also has both BAP and GGAP certification. The BAP certificate is valid until 22nd October 2021. The Global GAP number is GGN/GLN: 4052852980685 and valid until		
	Applicability: All	producers. Inform the CAB in writing.	November 2021.		
		e. Obtain declaration from feed supplier(s) stating	Both BAP and GGAP standards includes traceability for ingredients. The feed company applies Method 1.		
		that the company can assure traceability of all feed			
		ingredients that make up more than 1% of the feed to a level of detail required by the ASC Salmon Standard			
		[50]			
		1501			
		-			
		-			
ootnote	[50] Traceability shall be at a level of detail that permits the feed producer to o	ISOL - demonstrate compliance with the standards in this docu	ment (i.e., marine raw ingredients must be traced back to the fishery, soy to the region grown, etc.). Feed manufacturers will need to supply the farm with third-party documentation of	of the ingredients	covered under this standard.
ootnote	[50] Traceability shall be at a level of detail that permits the feed producer to o		Criterion 4.2 Use of wild fish for feed [51]	of the ingredients of	covered under this standard.
	[50] Traceability shall be at a level of detail that permits the feed producer to c		Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions):	of the ingredients (covered under this standard.
	[50] Traceability shall be at a level of detail that permits the feed producer to o		Criterion 4.2 Use of wild fish for feed [51]	of the ingredients (covered under this standard.
	[50] Traceability shall be at a level of detail that permits the feed producer to o		Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions): [51] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2.	of the ingredients (covered under this standard.
	[50] Traceability shall be at a level of detail that permits the feed producer to o	Compliance Criteria (Required Client Actions):	Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions): [51] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2. Instruction to Clients for Indicator 4.2.1 - Calculation of FFDRm		
	[50] Traceability shall be at a level of detail that permits the feed producer to o	Compliance Criteria (Required Client Actions):	Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions): [51] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2.	ned sufficient infor	rmation in order to make an ac
	[50] Traceability shall be at a level of detail that permits the feed producer to o	Compliance Criteria (Required Client Actions):	Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions): [51] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2. Instruction to Clients for Indicator 4.2.1 - Calculation of FFDRm ependency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintain rst audits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete production cycle (Le. If the FFDRm of the most recent corp was > 1.2) if the farm - the client understands how to accardely calculate FFDRm;	ned sufficient infor	rmation in order to make an ac
	[50] Traceability shall be at a level of detail that permits the feed producer to o	Compliance Criteria (Required Client Actions):	Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions): [51] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2. Instruction to Clients for indicator 4.2.1 - Calculation of FFDRm pendency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintain rst a udits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete production cycle (Le. If the FFDRm of the most recent corpover as > 1.2) if the farm the client understands how to accurately calculate FFDRm; the client maintains all information needed to accurately calculate FFDRm (Le. all feed specs for > 6 months) for the current production cycle; and	ned sufficient infor	rmation in order to make an ac
	[50] Traceability shall be at a level of detail that permits the feed producer to o	Compliance Criteria (Required Client Actions):	Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions): [51] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2. Instruction to Clients for Indicator 4.2.1 - Calculation of FFDRm ependency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintain rst audits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete production cycle (Le. If the FFDRm of the most recent corp was > 1.2) if the farm - the client understands how to accardely calculate FFDRm;	ned sufficient infor	rmation in order to make an ac
	[50] Traceability shall be at a level of detail that permits the feed producer to o	Compliance Criteria (Required Client Actions): Farms must calculate the Fishmeal Forage Fish D calculation of FFDRm as outlined below. For f	Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions): [51] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2. Instruction to Clients for indicator 4.2.1 - Calculation of FFDRm pendency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintain rst a udits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete production cycle (Le. If the FFDRm of the most recent corpover as > 1.2) if the farm the client understands how to accurately calculate FFDRm; the client maintains all information needed to accurately calculate FFDRm (Le. all feed specs for > 6 months) for the current production cycle; and	ned sufficient infor	rmation in order to make an ac
	[50] Traceability shall be at a level of detail that permits the feed producer to o	Compliance Criteria (Required Client Actions):	Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions): [51] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2. Instruction to Clients for indicator 4.2.1 - Calculation of FFDRm pendency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintain rst a udits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete production cycle (Le. If the FFDRm of the most recent corpover as > 1.2) if the farm the client understands how to accurately calculate FFDRm; the client maintains all information needed to accurately calculate FFDRm (Le. all feed specs for > 6 months) for the current production cycle; and	ned sufficient infor	rmation in order to make an ac
	Indicator: Fishmeal Forage Fish Dependency Ratio (FFDRm) for grow-out (calculated using	Compliance Criteria (Required Client Actions): Farms must calculate the Fishmeal Forage Fish D calculation of FFDRm as outlined below. For f a. Maintain a detailed inventory of the feed used including: - Quantities used of each formulation (kg);	Criterion 4.2 Use of wild fish for feed [51] Auditor Evaluation (Required CAB Actions): [51] See Appendix VI for transparency requirements for 4.2.1 and 4.2.2. Instruction to Clients for indicator 4.2.1 - Calculation of FFDRm pendency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintain rst a udits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete production cycle (Le. If the FFDRm of the most recent corpover as > 1.2) if the farm the client understands how to accurately calculate FFDRm; the client maintains all information needed to accurately calculate FFDRm (Le. all feed specs for > 6 months) for the current production cycle; and	ned sufficient infor	rmation in order to make an ac
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4.2.2		requirements of the Standard. d. For option #1, calculate FFDR o using formulas in Appendix IV-1 and using the eFCR calculated under 4.2.1c. e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2. f. Submit FFDR or EPA & DHA to ASC as per Appendix VI for each production cycle. trimmings. Trimmings are defined as by-products when	Option 1 is chosen. All feed use is recorded into The company works closely with the feed companies to evaluate the FFDRm. Calculations exclude trimmings. eFCR is calculated by the fishtalk database that the applicant uses. This system also records all feed type and quantity. FFDR 0.146		able for human consumption.	1.46
		Compliance Criteria (Required Client Actions):	Criterion 4.3 Source of marine raw materials Auditor Evaluation (Required CAB Actions):			
4.3.1	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A	Not required.		N/A		
Footnote	[53]	This standard and standard 4.3.2 applies to fishmeal and	oil from forage fisheries, pelagic fisheries, or fisheries where the catch is directly reduced (including krill) and not to by-products or trimmings used in feed.			
Footnote		[54] Meets ISEAL guidelines as dem	onstrated through full membership in the ISEAL Alliance, or equivalent as determined by the Technical Advisory Group of the ASC.			
	Indicator: Prior to achieving 4.3.1, the FishSource score [55] for the fishery(ies) from which all marine raw material in feed is derived Requirement: All individual scores 2.6,	For first audits, farms must have scoring records that c	d as feed ingredients, do the following: sex the accurate fishery nen scroll down or click on the link from the menu on the left reads "Scores" over all feeds purchased during the previous 6-month period. rage fisheries, pelagic fisheries, or fisheries where the catch is directly reduced (including krill) and not to by-products or trimmings used in feed.			
	kequirement: All individual scores 2 b, and biomass score 2 6 Applicability: All	FishSource assessment is not available. Client can then take one or both of the following actions: 1. Contact FishSource via Sustainable Fisheries Partnerships to identify the species as a priority for assessment. 2. Contract a qualified independent third party to	The applicant reviews and keeps a Database of all the Marine Ingredients that are used by the 2 Feed companies. This oversight insures that the feeds are compliant to SC requirements. EVOS feeds Alaska Pollock (Theragra Chalcogramma) East Bering SeaUSAAI >9.9 Perviaha Anchoveral E(Bagraulis Ringens) Southern Peru/Northern ChileAII >6 Walleye Pollock (Gadus Chalcogrammus) Bering Sea and Aleutian Islands 101010 Skretting feed North Pacific HakeNP Pacific. AII >7.9 Alandic HerringStagerrak,Kategat & W. Baltic. AII >6.9 Sandeels nei Bentral Eastern North Sea. All 268	Compliant		
Footnote		[55] Or	equivalent score using the same methodology. See Appendix IV-3 for explanation of FishSource scoring.			

	Indicator: Prior to achieving 4.3.1, demonstration of third-party verified chain of custody	that traceability systems are in compliance. Alternativ certified to the International Fishmeal and Fish Oil Org	Verification of Traceability d producers can demonstrate chain of custody and traceability as verified through third-party audits. Farms may submit reports from audits of feed producers (see 4.1.tc) as evidence ely, farms may show that their feed producers comply with traceability requirements of Indicator 4.3.3 by submitting evidence that suppliers, and the batches of fishmeal and oil, are anization's Global Standard for Responsible Supply or to the Marine Stewardship Council Chain of Custody Standard. feed is required and evidence shall relate to species used in said dataset.		
4.3.3	and traceability for the batches of fishmeal and fish oil which are in compliance with 4.3.2. Requirement: Yes Applicability: All	chain of custody or traceability program. b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a).	As well as the feed companies havin BAP and GGAP certification, See 4.1.1, the applicant also retains a list of ingredients and their 3 party certifications. PRODUCT Certification SPECIES REGION. Fish OilMSCAlaska Pollock (Theragra Chalcogramma)East Bering Sea Fish Meal Marin TrustPeruvian Anchoveta (Engraulis Ringens) Southern Peru/Northern Chile Fish OilMSCAlaska Pollock (Calco Chalcogramma)East Bering Sea Fish Meal Marin TrustPeruvian Anchoveta (Engraulis Ringens) Southern Peru/Northern Chile Fish OilMSCAlaska Pollock (Theragra Chalcogramma)East Bering Sea Fish Meal MSCAlaska Pollock (Theragra Chalcogramma)East Bering Sea Fish Meal MSCAlaska Pollock (Theragra Chalcogramma)East Bering Sea	Compliant	
4.3.4	Indicator: Feed containing fishmeal and/or fish oil originating from by-products [56] or trimmings from IUU [57] catch or from fish species that are categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58], whole fish and fish meal from the same species and family as the species being farmed Requirement: None [59] Applicability: All except as noted in [59]	C Uotain from the teed supplier declaration that the meal or oil did not originate from a species categorized as vulnerable, endangered or critically endangered, according to the UICN Red List of Threatened Species [SB] and explaining how they are able to demonstrate this (i.e. through other did to the species of the species they are able to demonstrate this (i.e. through other setting and the species the species the species the species and species the species and species the species and species the species and species the species of species the species and species the speci	Fisheries of Origin are maintained. See 4.3.3 and 4.3.2 Both EWOS and Skretting have declared in their ASC submissions, that no IUU or IUCN has any relevance for their feeds. Species lists provided raise no issues in relation to either category.	Compliant	
4.3.5	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for marine ingredients that includes a commitment to continuous improvement of source fisheries Requirement: Yes Applicability: All	a: Request a link to guotic policy from the reed manufacturer stating the company's support of efforts to shift feed manufacturers purchases of fishmeal and fish oil to fisheries certified under a scheme that is an ISEAL member and has guidelines that specifically promote responsible environmental management of small pelagic fisheries and committing to continuous improvement of source	EWOS statements on Supplier Selection and Sustainable Sourcing of Raw Material in the audit pack dated January 2021. Responsible sourcing and sustainability policies and information, including the EWOS document Sustainable Saclood for Future Generations, is on the Cargill (i.e., parent company) website, www.cargill.com, under section Sustainability. Sizetting (Nutreco) has a supplier code of conduct that is online that includes no IUU and declares responsible sourcing and commitment to the environment. Nutreco participates in various sustainability counts and show that we not able on Responsible Soy, the ProTerra Network, the Roundtable on Sustainabile Palm Oil, the Aquaculture Stewardship Council and the International Fishmeal and Fish Oil Responsible Supply Standard' https://www.skretting.com/en-CA/sustainability/	Compliant	
Footnote	[56] Trimmings are defined as by-pr	oducts when fish are processed for human consumptio	n or if whole fish is rejected for use of human consumption because the quality at the time of landing does not meet official regulations with regard to fish suitable for human consump	tion.	
Footnote			[57] IUU: Illegal, Unregulated and Unreported.		
Footnote		[58] The	international Union for the Conservation of Nature reference can be found at http://www.iucnredlist.org/.		
Footnote	[59] For species listed as "vulnerable" by IUCN, an exception is made if a regional populatio		in a National Red List process that is managed explicitly in the same science-based way as IUCN. In cases where a National Red List doesn't exist or isn't managed in accordance with IU is conducted using IUCN's methodology and demonstrates that the population is not vulnerable.	CN guidelines, an	exception is allowed when an assessment
		Compliance Criteria (Required Client Actions):	Criterion 4.4 Source of non-marine raw materials in feed Auditor Evaluation (Required CAB Actions):		
4.4.1	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed ingredients that comply with recognized crop moratoriums [60] and local laws [61] Requirement: Yes Applicability: All	Compliance Criteria (Required Client Actions): a. Compile and maintain a list of all feed suppliers with contact information. (See also 4.1.1a) b. Obtain from each feed manufacturer a copy of the manufacturer's responsible sourcing policy for feed ingredients showing how the company compiles with recognized crop moratoriums and local laws. c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible	Auditor Variabation (Kegured CAB Actions): EWOS statements on Supplier Selection Auditing and Sustainable Sourcing of Raw Material was available with the audit pack dated January 2021. Stretting (Nutreco) has a supplier code of conduct that is online that includes no IUU and declares responsible sourcing and commitment to the environment. It states no IUU and sources must come from MSC or IFOR S schemes or the fits source scores being graver than 6. Sustainabile partnerships. It further states: Cooperation between value chain partners (business, government, science and NGOs) is a prerequisite to successfully addressing the sustainability challenges of our industry. Nutreco participates in various sustainabile partnerships such as the Round Table on Responsible Soy, the ProTerra Network, the Roundtable on Sustainabile Palm Oil, the Aquaculture Stewardship Council and the international Filtement and Fish Oil Responsible Supply Standrd' https://www.skretting.com/en-CA/sustainability/	Compliant	
Footnote	[60] Moratorium: A period of time in which there is a susp	sourcing policies are implemented.	a removal of the suspension or issues regarding the activity have been resolved. In this context, moratoriums may refer to suspension of the growth of defined agricultural crops in def	ned geographical	regions.
Footnote	[b1] Specifically, the policy shall include that vegetable ingredients, or produce	cts derived from vegetable ingredients, must not come	from areas of the Amazon Biome that were deforested after July 24, 2006, as geographically defined by the Brazilian Soy Moratorium. Should the Brazilian Soy Moratorium be lifted, th	s specific requirer	nent snäll be reconsidered.

4.4.2	Indicator: Percentage of soya or soya-derived ingredients in the feed that are certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62] Requirement: 100% Applicability: All	a. Prepare a policy stating the company's support of efforts to shift feed manufacturers' purchases of soya to soya certified under the Roundtable for Responsible Soy (RTRS) or equivalent. b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent) c. Notify feed suppliers of the farm's intent (4.4.2b). d. Obtain and maintain declaration from feed supplier(s) detailing the origin of soya in the feed. e. Provide evidence that soya used in feed is certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62] [62] Any alterr	EWOS statements on Supplier Selection Auditing and Sustainable Sourcing of Raw Material was available with the audit pack dated January 2021. Cargill Aquaculture nutrition have stated that they 'will source all of its Soy products from responsible supply chains audited to standards successfully benchmarked against FEFAC Soy sourcing guidelines by 2020. Skretting (Nutreco) has a supplier code of conduct that is online that includes no IUU and declares responsible sourcing and commitment to the environment. Nutreco participates in various sustainable partnerships such as the Round Table on Responsible Soy, the ProTerra Network, the Roundtable on Sustainable Pahm Oil, the Aquaculture Stewardship Council and the international Fishmel and Enfs Oil Responsible Supply Standard' https://www.skretting.com/en-CA/sustainability/ Skretting Certificate on RTRS number RTRS-CTP-B002382. Certificate Number of the Certified Organisation selling the Credits RTRS-CUC-AGR-0002. Dated august 2020.	Compliant	100
4.4.3	Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw material, or raw materials derived from transgenic plants, in the feed Requirement: Yes, for each individual raw material containing > 1% transgenic content [65] Applicability: All	a. Obtain from feed supplier(s) a declaration detailing the content of soya and other plant raw materials in feed and whether it is transgenic. b. Disclose to the buyer(s) a list of any transgenic plant raw material in the feed and maintain documentary evidence of this disclosure. For first audits, farm records of disclosures must cover > 6 monthe. c. Inform ASC whether feed contains transgenic ingredients (tyes or no) as per Appendix VI for each production cycle.		Compliant	
Footnote			or company is directly selling its product. This standard requires disclosure by the feed company to the farm and by the farm to the buyer of their salmon. of DNA from an unrelated organism. Taking genes from one species and inserting them into another species to get that trait expressed in the offspring.		
Footnote			[65] See Appendix VI for transparency requirement for 4.4.3.		

			Criterion 4.5 Non-biological waste from production	
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	
		 a. Prepare a policy stating the farm's commitment to proper and responsible treatment of non-biological 		
		waste from production. It must explain how the	The applicant has an Environmental policy dated May 2019 that outlines the commitments on waste. This includes	
		farm's policy is consistent with best practice in the	Minimize our environmental footprint, including reducing greenhouse gas emissions, waste and plastic that may harm nature.	
	Indicator: Presence and evidence of a functioning policy for proper and responsible [66]	area of operation	Ensure proper and responsible disposal of all waste associated with our operations, practices and facilities (e.g., no ocean dumping).	
	treatment of non-biological waste from production (e.g., disposal and recycling)	b. Prepare a declaration that the farm does not dump	 To apply practices and control technologies, wherever possible, that minimize and or prevent pollution. 	
4.5.1		non-biological waste into the ocean.	The applicant also has a Waste Management policy (June 2019) that specifically deals with aspects of waste that includes:	Compliant
4.5.1	Requirement: Yes	c. Provide a description of the most common	The applicant also has a waste wailingement policy (sume 2013) that spectrically deals with spects of waste that includes. Waste characterization	compilant
		production waste materials and how the farm	Waste Reduction	
	Applicability: All	ensures these waste materials are properly disposed	Reuse and Recycling	
		of	Off-site Disposal	
		d. Provide a description of the types of waste	Monitoring and Evaluation	
		materials that are recycled by the farm.		
Footnote	[66] Proper and responsible disposal will vary based on facilities available in the region and	remoteness of farm sites. Disposal of non-biological wa	ste shall be done in a manner consistent with best practice in the area. Dumping of non-biological waste into the ocean does not represent "proper and responsible" disposal.	
		a. Provide a description of the most common		
		production waste materials and how the farm		
		ensures these waste materials are properly disposed		
	Indiantary Evidence that non-biological waste (including not none) from grow out site is	of. (see also 4.5.1c)	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 lickload the consulted documentation (or an empleted), which will near be the protocol to be finded documentation.	
	Indicator: Evidence that non-biological waste (including net pens) from grow-out site is either disposed of properly or recycled	b. Provide a description of the types of waste	will include the requisite documentation (e.g. manifest), which will ensure traceability of the material to its final destination.	
	enter apposed of property of recycled	materials that are recycled by the farm. (See also	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	
4.5.2	Requirement: Yes	4.5.1d)	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	Compliant
		c. Inform the CAB of any infractions or fines for	implementation of waste handling procedures and identify opportunities for continuous improvement of the waste process stream.	
	Applicability: All	improper waste disposal received during the previous		
		12 months and corrective actions taken	Nootka sound service Itd. Invoice number 20164368 dated 30th November 2020 and included dumpsters, pallets, bags, oil and Batteries. Invoice covered the entire month.	
		d. Maintain records of disposal of waste materials		
		including old nets and cage equipment.	Contraction of the December of the American Contraction on Contraction (CON)	
		Compliance Criteria (Required Client Actions):	Criterion 4.6 Energy consumption and greenhouse gas emissions on farms [67] Auditor Evaluation (Required CAB Actions):	
Footnote		compitance enteria (nequirea enerit Actions).	[67] See Appendix VI for transparency requirements for 4.6.1, 4.6.2 and 4.6.3.	
Foothote			for Lace value in an analysis of value of a ward ward and ward.	
		Instruction to Clients for Indicator 4.6.1 - Energy Use		
		Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour not required. However the SAD Steering Committee e For the purposes of calculating energy consumption, t	ssment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for ces of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is ncourages companies to integrate energy use assessments across the board in the company. the duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate	
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	Indicator: Presence of an energy use assessment verifying the energy consumption on the	Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour out required. However the SAD Steering Committee e For the purposes of calculating energy consumption, It the grow-out stage portion of energy consumption if g Standard or ISO 14064-1 (see Appendix V-1 for more of a. Maintain records for energy consumption by	ssment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for ces of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is nourages companies to integrate energy use assessments across the board in the company. the duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate details).	
	Indicator: Presence of an energy use assessment verifying the energy consumption on the farm and representing the whole life cycle at sea, as outlined in Appendix V- 1	Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour not required. However the SAD Steering Committee e For the purposes of calculating energy consumption, t the grow-out stage portion of energy consumption if p Standard or ISO 14064-1 (see Appendix V-1 for more of a Maintain records for energy consumption by	ssment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for ces of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is nourages companies to integrate energy use assessments across the board in the company. the duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate details).	
46.1	farm and representing the whole life cycle at sea, as outlined in Appendix V-1	Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour not required. However the SAD Steering Committee e For the purposes of calculating energy consumption, it the grow-out stage portion of energy consumption if Standard or ISO 1406-1 (see Appendix V-1 for more a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle.	ssment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for ces of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is nourages companies to integrate energy use assessments across the board in the company. the duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate details).	
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4.6.1	farm and representing the whole life cycle at sea, as outlined in Appendix V- 1 Requirement: Yes, measured in kilojoule/mt fish produced/production cycle	Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour not required. However the SAD Steering Committee e For the purposes of calculating energy consumption, it the grow-out stage portion of energy consumption if Standard or ISO 1406-1 (see Appendix V-1 for more a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle.	ssment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for ces of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is nourages companies to integrate energy use assessments across the board in the company. the duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate details).	
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4.6.1	farm and representing the whole life cycle at sea, as outlined in Appendix V- 1 Requirement: Yes, measured in kilojoule/mt fish produced/production cycle	Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour not required. However the SAD Steering Committee e For the purposes of calculating energy consumption, It the grow-out stage portion of energy consumption if Standard or ISO 14064-1 (see Appendix V-1 for more of a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle. b. Calculate the farm's total energy consumption in kilojoules (ki) during the last production cycle. c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle. e. Submit results of energy use calculations (4.6.1d) to	sment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for ces of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is nourages companies to integrate energy use assessments across the board in the company. the duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate details). Grieg is a stock exchange listed company and all elements of production are assessed and recorded and this includes energy use assessment. https://www.globenewswire.com/news- release/2020/04/08/2013555/0/en/Grieg-Seafood-ASA-integrated-Annual-Report-2019.html For the 2017 year class the energy consumption was 239,048.56 kj / t fish produced Tonnage produced was 2719 tons	Compliant
4.6.1	farm and representing the whole life cycle at sea, as outlined in Appendix V- 1 Requirement: Yes, measured in kilojoule/mt fish produced/production cycle	Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour or required. However the SAD Steering Committee e For the purposes of calculating energy consumption, it the grow-out stage portion of energy consumption if Standard or ISO 14064-1 (see Appendix V-1 for more c a. Maintain records for energy consumption by source (fue), electricity) on the farm throughout each production cycle. b. Calculate the farm's total energy consumption in kilojoules (ki) during the last production cycle. c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. d. Using results from 4.6.1 band 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle.	sment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for ces of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is nourages companies to integrate energy use assessments across the board in the company. the duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate details). Grieg is a stock exchange listed company and all elements of production are assessed and recorded and this includes energy use assessment. https://www.globenewswire.com/news- release/2020/04/08/2013555/0/en/Grieg-Seafood-ASA-integrated-Annual-Report-2019.html For the 2017 year class the energy consumption was 239,048.56 kj / t fish produced Tonnage produced was 2719 tons	Compliant
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4.6.1	farm and representing the whole life cycle at sea, as outlined in Appendix V- 1 Requirement: Yes, measured in kilojoule/mt fish produced/production cycle	Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour out required. However the SAD Steering Committee e For the purposes of calculating energy consumption, it the grow-out stage portion of energy consumption if Standard or ISO 14064-1 (see Appendix V-1 for more of a. Maintain records for energy consumption by source (fue), electricity) on the farm throughout each production cycle. b. Calculate the farm's total energy consumption in kliojoules (ki) during the last production cycle. c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. d. Using results from 4.6.1 band 4.6.1c, calculate energy consumption on the farm as required, reported as kliojoulem (tishyroduction cycle. e. Submit results of energy use calculations (4.6.1d) to SC as per Appendix VI for each production cycle.	sment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for ces of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is nourages companies to integrate energy use assessments across the board in the company. the duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate details). Grieg is a stock exchange listed company and all elements of production are assessed and recorded and this includes energy use assessment. https://www.globenewswire.com/news- release/2020/04/08/2013555/0/en/Grieg-Seafood-ASA-integrated-Annual-Report-2019.html For the 2017 year class the energy consumption was 239,048.56 kj / t fish produced Tonnage produced was 2719 tons	Compliant
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4.6.1	farm and representing the whole life cycle at sea, as outlined in Appendix V- 1 Requirement: Yes, measured in kilojoule/mt fish produced/production cycle	Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour not required. However the SAD Steering Committee e For the purposes of calculating energy consumption, It the grow-out stage portion of energy consumption if Standard or ISO 14064-1 (see Appendix V-1 for more of a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle. b. Calculate the farm's total energy consumption in kilojoules (ki) during the last production cycle. c. Calculate the total weight of fish in metric tons (1) produced during the last production cycle. d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle. e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix V1 for each production cycle. I. Ensure that the farm has undergone an energy use assessment that was done in compliance with requirements of Appendix V-1.	sment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for record Scope 1 and Scope 2 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is incourages companies to integrate energy use assessments across the board in the company. The duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate teals).	Compliant
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4.6.1	farm and representing the whole life cycle at sea, as outlined in Appendix V- 1 Requirement: Yes, measured in kilojoule/mt fish produced/production cycle	Indicator 4.6.1 requires that farms must have an asses operational energy use should correspond to the sour not required. However the SAD Steering Committee e For the purposes of calculating energy consumption it Standard or ISO 14064-1 (see Appendix V-1 for more of a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle. b. Calculate the farm's total energy consumption in kilojoules (ki) during the last production cycle. c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoules (4.6.1d) to ASC as per Appendix V-1. f. Ensure that the farm has undergone an energy use assessment that was done in compliance with requirements of Appendix V-1. Instruction to Clients for Indicator 4.6.2 - Annual GHG Indicator 4.6.2 requires that farms must have an annu boundaries for the farm sm sundergone an energy use assessment the farm has undergone anter and the requirements of Appendix V-1.	sment to verify energy consumption. The scope of this requirement is restricted to operational energy use for the farm site(s) that is applying for certification. Boundaries for cere of Scope 1 and Scope 2 emissions (isee Appendix V-1). Energy use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is incourages companies to integrate energy use assessments across the board in the company. The duration of the production cycle is the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that have integrated smolt rearing should break out possible. Quantities of energy (fuel and electricity) are converted to kilojoules. Verification is done by internal or external assessment following either the GHG Protocol Corporate steals).	Compliant

	Indicator: Records of greenhouse gas (GHG [68]) emissions [69] on farm and evidence of	 Maintain records of greenhouse gas emissions on the farm. 				
4.6.2	an annual GHG assessment, as outlined in Appendix V-1 Requirement: Yes	b. At least annually, calculate all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.				
		c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors.	Il records are maintained on a site energy evaluation document. All scopes are listed and recorded. The key external sources used as a basis for the calculations are; International nergy Agency (IEA/OECD), Intergovernmental Panel on Climate Change (IPCC), UK Government; Greenhouse gas reporting; conversion factors. HG were 1052 Tco2e - SS17 yearclass.	Compliant		
		e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year.				
		f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually.				
Footnote	[68] For the purpos	es of this standard, GHGs are defined as the six gases lis	sted in the Kyoto Protocol: carbon dioxide (CO ₂); methane (CH4); nitrous oxide (N ₂ O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF _e).			
Footnote		[69] GHG	emissions must be recorded using recognized methods, standards and records as outlined in Appendix V.			
4.6.3	Indicator: Documentation of GHG emissions of the feed [70] used during the previous production cycle, as outlined in Appendix V, subsection 2	continuous record of Feed GHG emissions throughout - the farm provides its feed suppliers with detailed info - the farm explain what analyses must be done by feed - the farm explains to feed suppliers what documentar Note1: Farms may calculate GHG emissions of feed usi	nhouse gas emissions (GHG) associated with any feeds used during salmon production. Farms will need to obtain this information from their feed supplier(s) and thereafter maintain a all production cycles. This requirement applies across the entire previous production cycle. Therefore farms should inform their feed supplier(s) and: rmation about the requirements including a copy of the methodology outlined in Appendix V, subsection 2;			
	Requirement: Yes	a. Obtain from feed supplier(s) a declaration detailing				
	Applicability: All	the GHG emissions of the feed (per kg feed).				
		b. Multiply the GHG emissions per unit feed by the total amount of feed from each supplier used in the most recent completed production cycle.	EWOS feed average GHG emissions are 1,831kg CO2eq/ton of feed. Skretting Feed quote 1,940 CO2 eq/ton of feed. Esperenza equals 5322 tons CO2 eq for feeds.			
		Appendix VI for each production cycle.				
Footnote	[70] GHG emissions from feed can be given based on the average raw material composition	n used to produce the salmon (by weight) and not as do	cumentation linked to each single product used during the production cycle. Feed manufacturer is responsible for calculating GHG emissions per unit feed. Farm site then shall use that feed they used in the prior production cycle.	information to ca	alculate GHG emissions for the	volume of
			Criterion 4.7 Non-therapeutic chemical inputs [71,72]			
Footnote			Auditor Evaluation (Required CAB Actions): ystems that do not use nets and do not use antifoulants shall be considered exempt from standards under Criterion 4.7.			
Footnote			[72] See Appendix VI for transparency requirements for 4.7.1, 4.7.3 and 4.7.4.			
		a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.				
	Indicator: For farms that use copper-treated nets [73], evidence that nets are not cleaned	 Maintain records of antifoulants and other chemical treatments used on nets. 				
4.7.1	[74] or treated in situ in the marine environment Requirement: Yes	c. Declare to the CAB whether copper-based treatments are used on nets.	None used.	N/A		
	Applicability: All farms except as noted in [71]	d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ. e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle.				
Footnote			sed antifoulant) durng the previous 18 months, or has not undergone thorough cleaning at a land-based facility since the last treatment. Farms that use nets that have, at some point pr d cleaning has elapsed as in this definition. This will allow farms to move away from use of copper without immediately having to purchase all new nets.	ior in their lifespa	an, been treated with copper n	nay still
Footnote	[74] Light cleaning of nets is allowed. Intent of the standard is that, for example, the high-pressure underwater washers could not be used on copper treated nets under this standard because of the risk of copper flaking off during this type of heavy or more thorough cleaning.					

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	Indicator: For any farm that cleans nets at on-land sites, evidence that net-cleaning sites have effluent treatment [75]	a. Declare to the CAB whether nets are cleaned on- land. b. If nets are cleaned on-land, obtain documentary			
4.7.2	Requirement: Yes	evidence from each net-cleaning facility that effluent	Compliant		
	requirement: res	treatment is in place.			
	Applicability: All farms except as noted in [71]	c. If yes to 4.7.2b, obtain evidence that effluent			
		treatment used at the cleaning site is an appropriate technology to capture of copper in effluents.			
Footnote		[75] Treat	tment must have appropriate technologies in place to capture copper if the farm uses copper-treated nets.		
			side the full AZE is hard bottom, provide evidence to the CAB and request an exemption from Indicator 4.7.3 (see 2.1.1c).		
	Indicator: For farms that use copper nets or copper-treated nets, evidence of testing for copper level in the sediment outside of the AZE, following methodology in Appendix I-1	a. Declare to the CAB whether the farm uses copper nets or copper-treated nets. (See also 4.7.1c). If "no".			
4.7.3	copper level in the sediment outside of the AZE, following methodology in Appendix 1-1	Indicator 4.7.3 does not apply.			
4.7.3	Requirement: Yes	b. If yes in 4.7.3a, measure and record copper in sediment samples from the reference stations			
	Applicability: All farms except as noted in [71]	specified in 2.1.1d and 2.1.2c which lie outside the	None used.	N/A	
	· · · · · · · · · · · · · · · · · · ·	c. If "yes" in 4.7.3a, maintain records of testing			
		methods, equipment, and laboratories used to test copper level in sediments from 4.7.3b.			
		 a) farm is exempt from Indicator 4.7.4 (as per 4.7.3a), 			
		or 2) Farm has conducted testing of copper levels in sediment.			
	Indicator: Evidence that copper levels [76] are < 34 mg Cu/kg dry sediment weight,	b. Provide evidence from measurements taken in			
	in instances where the Cu in the sediment exceeds 34 mg Cu/kg dry sediment weight,	 3b that copper levels are < 34 mg Cu/kg dry sediment weight. 			
	demonstration that the Cu concentration falls within the range of background	c. If copper levels in 4.7.4b are ≥ 34 mg Cu/kg dry			
4.7.4	concentrations as measured at three reference sites in the water body	sediment weight, provide evidence the farm tested copper levels in sediments from reference sites as	None used.	N/A	
	Requirement: Yes	described in Appendix I-1 (also see Indicators 2.1.1			
	Applicability: All farms except as noted in [71] and excluding those farms shown to be	and 2.1.2) d. Analyze results from 4.7.4c to show the	-		
	exempt from Indicator 4.7.3	background copper concentrations as measured at			
		three reference sites in the water body.			
		e. Submit data on copper levels in sediments to ASC			
		as per Appendix VI for each production cycle.			
Footnote		[76] According to testing required un	nder 4.7.3. The standards related to testing of copper are only applicable to farms that use copper-based nets or copper-treated nets.		
	Indicator: Evidence that the type of biocides used in net antifouling are approved	 a. Identify all biocides used by the farm in net antifouling. 			
	according to legislation in the European Union, or the United States, or Australia				
4.7.5	Requirement: Yes	b. Compile documentary evidence to show that each chemical used in 4.7.5a is approved according to	None used.	N/A	
		legislation in one or more of the following			
	Applicability: All farms except as noted in [71]	jurisdictions: the European Union, the United States, or Australia.			
PRINCIPLE 5: MA	NAGE DISEASE AND PARASITES IN AN ENVIRONMENTALLY RESPONSIBLE MANNER				
			Criterion 5.1 Survival and health of farmed fish [77]		
Footnote		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions): [77] See Appendix VI for transparency requirements for 5.1.4, 5.1.5 and 5.1.6.		
FOULIDLE		a. Prepare a fish health management plan that	Contrast of the second s		
	Indicator: Evidence of a fish health management plan for the identification and monitoring	incorporates components related to identification			
	or rish diseases, parasites and environmental conditions relevant for good rish health,	and monitoring of fish disease and parasites. This plan may be part of a more comprehensive farm planning	1 Fish heath management in place. As well as the FHMP there are associated SOP's dealing with specific areas of fish health. There are three staff who undertake site visits including a		
5.1.1	including implementing corrective action when required	document	Veterinarian. It's a licence requirement that Marine Farms submit a fish health plan to DFO for approval. Section 2.5 'Keeping pathogens out'. 2.6 Monitoring Fish Health and Disease.	Compliant	
5.1.1	Requirement: Yes	h Engling that the farm's current fick health	2.8 Fish Disease Outbreaks / Emergency. 2.6.3.2 Sea lice monitoring (Sea Lice Monitoring and Auditing Program in SOPs 2.7.2.2 of Grieg Seafood BC Ltd. SOP manual or Best	compliant	
		b. Ensure that the farm's current fish health management plan was reviewed and approved by the	Management Practices). This plan has been adopted by the Veterinarian and dated 11/1/2021.		
	Applicability: All	farm's designated veterinarian [78].			
		a. Maintain records of visits by the designated veterinarian [78] and fish health managers [82]. If			
	Indicator: Site visits by a designated veterinarian [78] at least four times a year, and by a fick health manager [70] at least energy a month.	schedule cannot be met, a risk assessment must be			
	Indicator: Site visits by a designated veterinarian [78] at least four times a year, and by a fish health manager [79] at least once a month	schedule cannot be met, a risk assessment must be b. Maintain a current list of personnel who are	There are three 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		
5.1.2		b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s)	There are three 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. Between December 2019 and December 2020 there have been a total of 14 fish health visits often by 2 fish health staff. The sites called Esperenza, Hecate and Steamer being so close together means that the fish health staff visit all 3 sites at the same time.	Compliant	
5.1.2	fish health manager [79] at least once a month Requirement: Yes	b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79].	concerns are raised. Between December 2019 and December 2020 there have been a total of 14 fish health visits often by 2 fish health staff. The sites called Esperenza, Hecate and	Compliant	
5.1.2	fish health manager [79] at least once a month	b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s)	concerns are raised. Between December 2019 and December 2020 there have been a total of 14 fish health visits often by 2 fish health staff. The sites called Esperenza, Hecate and	Compliant	
5.1.2	fish health manager [79] at least once a month Requirement: Yes Applicability: All	 b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79]. c. Maintain records of the qualifications of persons identified in 5.1.2b. 	concerns are raised. Between December 2019 and December 2020 there have been a total of 14 fish health visits often by 2 fish health staff. The sites called Esperenza, Hecate and Steamer being so close together means that the fish health staff visit all 3 sites at the same time.		estandada This definition and
5.1.2 Footnote	fish health manager [79] at least once a month Requirement: Yes Applicability: All	 b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79]. c. Maintain records of the qualifications of persons identified in 5.1.2b. 	concerns are raised. Between December 2019 and December 2020 there have been a total of 14 fish health visits often by 2 fish health staff. The sites called Esperenza, Hecate and		se standards. This definition applies to all
	fish health manager [79] at least once a month Requirement: Yes Applicability: All	 b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79]. c. Maintain records of the qualifications of persons identified in 5.1.2b. 	concerns are raised. Between December 2019 and December 2020 there have been a total of 14 fish health visits often by 2 fish health staff. The sites called Esperenza, Hecate and Steamer being so close together means that the fish health staff visit all 3 sites at the same time.		se standards. This definition applies to all
	fish health manager [79] at least once a month Requirement: Yes Applicability: All [78] A designated veterinarian is the professional responsible for health management on th	b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79]. C. Maintain records of the qualifications of persons identified in 5.1.2b.	concerns are raised. Between December 2019 and December 2020 there have been a total of 14 fish health visits often by 2 fish health staff. The sites called Esperenza, Hecate and Steamer being so close together means that the fish health staff visit all 3 sites at the same time.		se standards. This definition applies to all

5.1.3 Footnote	Indicator: Percentage of dead fish removed and disposed of in a responsible manner Requirement: 100% [80] Applicability: All	Note: Farms are required to maintain mortality record	All dead fish are removed from site and disposed of through approved facilities such as Earth Bank System Resource Ltd. Detailed invoice 10892 dated 31st July 2020 for various mortality disposals in July. Eg July 11th 7 x mort bins with 18.9 tons.	Compliant	100%
5.1.4	Indicator: Percentage of mortalities that are recorded, classified and receive a post- mortem analysis Requirement: 100% [81] Applicability: All	A. Maintain detailed records for all mortalities and post-mortem analyses including: - date of mortality and date of post-mortem analysis; - total number of mortalities and number receiving post-mortem analysis; - name of the person or lab conducting the post- mortem analyses; - qualifications of the individual (e.g. veterinarian [78], fish health manager [79]); - cause of mortality (sensite ducing and the sensitivation) b. For each mortality event, ensure that post-mortem analyses are done on a statistically relevant number of fish and keep a record of the results. C. If on-ite diagnosis is innonclusive and disease is unclu-	All mortalities are recorded, classified and receive a post mortem analysis. The fish are removed from the pens daily and each fish is reviewed and recorded by the site staff. They have been trained in post mortem classification by the fish health team and this is done regularly when the fish health staff are onsite. Feedback from detailed fish death analysis helps determine mortality causes. Junual mortality is brought to the attention of the fish health team mediately. Once the fish are recorded and classified the details are recorded into the companies recording database for analysis and the health team get the results daily. There are 30 standard causes of death that can be chosen from in the database. These reasons range from environmental causes to mechanical causes as well as possible disease such as mouth rot.	Compliant	100%
Footnote	[81] If on-site diagnosis is inconclusive, this standard requir	es off-site laboratory diagnosis. A qualified professional m	ust conduct all diagnosis. One hundred percent of mortality events shall receive a post-mortem analysis, not necessarily every fish. A statistically relevant number of fish from the mort	ality event shall b	e analyzed.
5.1.5	Indicator: Maximum viral disease-related mortality [82] on farm during the most recent production cycle Requirement: ≤ 10% Applicability: All	a. Calculate the total number of mortalities that were diagnosed (see 5.1.4) as being related to viral disease. b. Combine the results from 5.1.5 a with the total number of unspecified and unexplained mortalities from the most recent complete production cycle. Divide this by the total number of fish produced in the production cycle (x100) to calculate percent c. Submit data on total mortality and wiral disease-related mortality to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	Viral disease has been reported by the site as 0. Unexplained deaths have been reported by the site as 13,824 or 3.41%. Combined is the same figure for the 2017 year class.	Compliant	3.41%
Footnote		[82] Viral disease a. Use records in 5.1.4a to calculate the unexplained	related mortality count shall include unspecified and unexplained mortality as it could be related to viral disease.		
5.1.6	Indicator: Maximum unexplained mortality rate from each of the previous two productio cycles, for farms with total mortality > 6% Requirement: \$ 40% of total mortalities Applicability: All farms with > 6% total mortality in the most recent complete production cycle.	mortality rate (%) for the most recent full production cycle. If rate was 5 6%, then the requirement of 5.1.6 n does not apply. If total mortality rate was > 6%, proceed to 5.1.6 b. Calculate the unexplained mortality rate (%) for	Total mortality for the 2017 yearclass was 33.74%. The unexplained rate when compared to the total mortalities was 5.05%	Compliant	5.05%

5.1.7 R	ndicator: A farm-specific mortalities reduction programme that includes defined annual argets for reductions in mortalities and reductions in unexplained mortalities Requirement: Yes	 a. Use records in 5.1.4a to assemble a time-series dataset on farm-specific mortalities rates and unexplained mortality rates. 	ecific mortality reduction program into the farm's fish health management plan (5.1.1).			
5.1.7 R	argets for reductions in mortalities and reductions in unexplained mortalities	dataset on farm-specific mortalities rates and unexplained mortality rates.				
		veterinarian and/or fish health manager to develop a mortalities-reduction program that defines annual targets for reductions in total mortality and unexplained mortality. C. Ensure that farm management communicates with the veterinarian, fish health manager, and staff about annual targets and planned actions to meet targets.	The fish health manager was interviewed during the audit. The question of mort reduction was discussed. He confirmed that mortality trends from the previous yearclass is reviewed and the top 6 reasons for mortality are concentrated on. These reviews are followed up and discussed within the 'Spring meetings' the company has. Strategies are then formed for the next input of fish. These strategies include placing Tarps around each pen, Providing aeration, Focusing on Lice numbers and treatments and monitoring phytoplankton daily as examples. Criterion 5.2 Therapeutic treatments [83] Auditor Evaluation (Required CAB Actions):	Compliant		
Footnote			[83] See Appendix VI for transparency requirements for 5.2.1, 5.2.5, 5.2.6 and 5.2.10.			
Instruction to Client	ts and CABs for Criterion 5.2 - Records Related to Therapeutic Treatments					
Indicator 5.2.1 requi	ires that farms maintain detailed record of all chamical and therapeutant use. These record	ds maintained for compliance with 5.2.1. if all consolidat	ed into a single place, can be used to demonstrate performance against subsequent Indicators (5.2.1 through 5.2.10) under Criterion 5.2.			
mulcator 5.2.1 requi	ines that farms maintain detailed record of an chemical and therapedtant use. Those record	us maintained for compliance with 5.2.1, if all consolidat	eu nico a single place, can de useu to demonstrate performance against subsequent indicators (5.2.1 un obgit 5.2.10) under Criterion 5.2.			
ai ar fi: 5.2.1 pi Ru	ndicator: On-farm documentation that includes, at a minimum, detailed information on II chemicals [84] and therapeutants used during the most recent production cycle, the imounts used (including grams per ton of fish produced), the dates used, which group of ish were treated and against which diseases, proof of proper dosing, and all disease and athogens detected on the site Requirement: Yes Applicability: All	 the WHO classification of antibiotics (also see note under 5.2.8); and the supplier of the chemical or therapeutant. 	Records are maintained by means of the prescriptions used and in the day sheets and on farm database. It's a legal requirement for all sites to retain a copy of prescriptions onsite for DFO review. Aquaflor treatment for Yellowmouth / Mouth rot. Dated February 8th 2020. Prescription reviewed 20-15PW. Pen 2, 3 and 4. N=257,221 and average weight 449g. Biomass = 115,486kg. Licence number AQFF 115376. Skretting 6mm feed and a total of 7,800 kg. Active ingredient 2g/kg of feed. Feed rate of 0.5% fish body weight per day over a 10 day period. Withdrawal period 15 days.	Compliant		
Footnote			[84] Chemicals used for the treatment of fish.		<u></u>	
ct 5.2.2 R	ndicator: Allowance for use of therapeutic treatments that include antibiotics or hemicals that are banned [85] in any of the primary salmon producing or importing countries [86]	b. Maintain records of voluntary and/or mandatory	Dated April 2019, There is a document called ' List of Veterinary Drugs that are Authorized for Sale by Health Canada for Use in Food-Producing Aquatic Animals - Health Canada'. These list the allowed therapeutants. The list includes: Florfenicol, Oxytetracycline, Emmamectin Benzoate, Sulfadimethoxine and Ormetoprim, Trimethoprim and Sulfadiazine Powder. Nothing else is allowed. Residue testing is carried out at the site prior to harvest. AS well as medicinal residues, heavy metals, chemical dyes and toxins are tested for. The CFA aquaculture therapeutant residue monitoring list - Canadian Food Inspection Agency is followed. A lot of fish is considered unacceptable when residues of a substance found in the product exceed the action level specified in this list.	Compliant		
Footnote [8	[85] "Banned" means proactively prohibited by a government entity because of concerns around the substance. A substance banned in any of the primary salmon-producing or importing countries, as defined here, cannot be used in any salmon farm certified under the SAD, regardless of country of production or destination of the product. The SAD recommends that ASC maintain a list of a banned therapeutants.					
Footnote		[86] For purpo	sses of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France.			
5.2.3 R	ndicator: Percentage of medication events that are prescribed by a veterinarian Requirement: 100% Applicability: All	a. Obtain prescription for all therapeutant use in advance of application from the farm veterinarian (or equivalent, see [78] for definition of veterinarian). b. Maintain copies of all prescriptions and records of veterinarian responsible for all medication events. Records can be kept in conjunction with those for 5.2.1 and should be kept for the current and two prior production cycles.	All medicated events reviewed, retained on the site in the form of detailed prescriptions and signed by the Veterinarian. DFO monitor compliance with their visits to the site.	Compliant	100%	

		 a. Incorporate withholding periods into the farm's fish health management plan (see 5.1.1a). 			
5.2.4	Indicator: Compliance with all withholding periods after treatments Requirement: Yes Applicability: All	b. Compile and maintain documentation on legally- required withholding periods for all treatments used on-farm. Withholding period is the time interval after the withdrawal of a drug from the treatment of the bulkness holdress the bulkness the bulkness the force of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	Withholding periods are noted within the prescriptions that are drawn up by the company Veterinarian. These withdrawal periods are then logged into the Fish talk system that notifies the company that the site cannot be selected for harvest during the withdrawal period. For Aqualfor the withdrawal period was noted to be 15 days. Within the prescription template for Florfenicol, there is a sentence that states 'withdrawal recommendation may vary by destination country'. Its not clear how this 'other possible withdrawal period' can be captured within the fishtalk system.	Minor	Within the prescription template for Florfenicol, there is a sentence that states withdrawal recomendation may vary by destination country. Its not clear how this 'other possible withdrawal period' can be captured within the fishtalk system. This is classified as a minor finding as it is not compliant to the indicator, but is not sufficiently serious to warrant a major finding, as it does not threaten the integrity of the standard.
5.2.5	Indicator: The farm shall publicly report (via Appendix VI) the: 1. Weighted Number of Medicinal Treatments (see Appendix VII) for each production cycle 2. The parasiticide load for each agent over the production cycle 3. The benthic parasiticide residue levels Requirement: Yes Applicability: All	a. Using farm data for therapeutants usage (52.1a) and the calculation presented in Appendix VII, calculate the Weighted Number of Medicinal Treatments (WMNT) score for the most recent production cycle. Calculation should be made and updated on an ongoing basis throughout the cycle by farm manager, fish health manager, and/or veterinarian.	The current score for the Weighted number for medicinal treatments is 4.	Compliant	
		how the farm calculated the WMNT score. c. Submit data on farm level WMNT score to ASC as	Records were provided and the calculations are correct.		
5.2.6	Indicator: The Weighted Number of Medicinal Treatments shall be at or below the country Entry Level (see Appendix VII) Requirement: Yes Applicability: All	per Appendix VI for each production cycle. a. Review WNNAT scores from 5.2.5a to determine if the score is at or below the Country Entry Level (see Appendix VII) b. As applicable, submit data to ASC on WNIMT score for the most recent production cycle (Appendix VI).	From ASC interpretation Q+A 97. Farms in British Colombia - as the set EL (i.e. 1 WNMT) sits below the set GL (i.e. 3 WNMT), farms in BC are required to meet SGL. The parasitic treatments are 1 x SUCE and 3 x H2O2. The site is about to treat again with H2O2 to comply with the DFO requirement of having lice numbers low prior to the outmigration period. The company is required by DFO to insure that low levels of Lice are maintained especially prior to the outward migration period which runs from the beginning of March unit the end of Lune. This is a 4 month period. The licence states 'During the Pre-migration Window, the Licence Holder must: (b) within 48 hours Upon Discovery of threshold 6.2 (3 motile lice) being exceeded, notify the Department using Appendix VI-B, and describe the measures that will be taken to ensure that the sea lice levels are below the threshold by the start of Ho Qu-tringration Window; To this end and in keeping with directions from the company Veterinarian on maintaining animal welfare, the company uses H2O2 treatments to control lice levels at this time. The site is just about to start another H2O2 treatment to comply with lice levels in the outward migrating period. As the Global entry level is 3 and the site has declared a Weighted Number of Medicinal Treatments of 4, the site exceeds the Global entry level set by the standard.	Minor	As the Global entry level is 3 and the site has detared a Weighted Number of Medicinal Treatments of 4, the site exceeds the Global entry level set by the standard. This is classified as a minor finding as it is not compliant to the indicator, but is not sufficiently serious to warrant a major finding, as it does not threaten the integrity of the standard.
5.2.7	Indicator: The farm shall reduce the Weighted Number of Medicinal Treatments, after achieving indicator 5.2.6, with 25% per 2 years until the WNMT is at or below the Global Level (see Appendix VII). Requirement: Yes Applicability: All	a. Every 2 years after achieving 5.2.6, check the WNMT score calculated 2 years before as above (5.2.5a). Calculate the percent difference in WMNT score between current cycle and cycle of 2 years before. b. As applicable, submit data to ASC on WMNT score for the most recut production cycle and the two previous production cycles (Appendix VI).	This is an initial audit and 5.2.7 will be evaluated at future audits.	NA	
5.2.9	Indicator: The farm shall implement Integrated Pest Management (IPM) according to the guidance in Appendix VII. Requirement: Yes Applicability: All	 a. Implement integrated Pest Management (IPM) into farm management plans (see Appendix VII). b. Review and update IPM on a production cycle basis to reflect the effectiveness of applied methods and to determine next approaches. 	The company is in the process of drafting an IPM along with the other salmon producing farms in the Vancouver Island area. There are also many facets of Pest management within the company's management system. These include a sealice management plan. A sea lice mitigation process and a BC Salmon Aquaculture: Innovation and technology report that includes 'Sea lice prevention and treatment'. There are discussions on new technologies such as physical removal of lice and the company has conducted trials on this using a hydrolicer from another company.	Compliant	

			The company is in the process of drafting an IPM along with the other salmon producing farms in the Vancouver Island area. There are also many facets of Pest management within		Currently there is no IPM posted on the companies website. This is classified as a minor finding as it is not
5.2.9	Requirement: Yes		the companies management system. This includes a sea lice management plan dating from September 2019. Currently there is no IPM posted on the companies website.	Minor	compliant to the indicator, but is not sufficiently serious
		 Ensure the IPM is signed-off by an authorized veterinarian. 			to warrant a major finding, as it does not threaten the integrity of the standard.

5.2.10	Indicator: The farm shall monitor parasiticide residue levels annually in the benthic sediment directly outside the AZE. Requirement: Yes Applicability: All	 a. Prepare a map of the farm showing boundary of AZE [30 m] and GPS locations of all sediment collections stations. If the farm uses a site-specific AZE, provide justification [3] to the CAB. b. If benthos throughout the full AZE is hard bottom, provide evidence to the CAB and request an exemption from 5.2.10 c. Submit test results to ASC as per Appendix VI at least once for each production cycle. If site has hard bottom and cannot complete tests, report this to ASC d. Retain documentary evidence to show how scores were obtained, if samples were analysed an independent laboratory, obtain copies of results. 	Through this interpretation, and considering that the effective date of version 1.3 of the standard was the past 26 of December 2019, ASC wants to clarify that while the referred guidance is pending, the compliance with the indicator is not required and auditors shall mark its evaluation as non-applicable (n/a) in the Audit Report. The guidance, when published, will establish the effective implementation date of indicator 5.2.10.	N/A	
		 Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles. 	All antibiotic use is only authorised 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.		
5.2.11	Indicator: Allowance for prophylactic use of antimicrobial treatments Requirement: None	 Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3) 	Log of medicinal use is in place and there are regular audits by DFO on site that includes prescription review and records of use.	Compliant	
	Applicability: All	c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.13).	The total amount of treatment for the current cycle is 310,800g. The number of Prescriptions is 20 but this covers different pens at different times, where one prescription might cover just one pen and another may cover a series of pens. The Veterinarian has declared that there was one treatment. See 5.2.13. The previous application level was 0 on this site as the fish were transferred after any issues with redmouth.		
	Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the World Health Organization (WHO) Requirement: None Applicability: All		The applicant has accessed the WHO list online and downloaded a version, No critically important anti biotics used. Only Florfenicol which complies with the CFIA - Canadian Food Inspection Agency is followed. See 5.2.2		
5.2.12		schedule the audit. c. If the farm has used antibiotics listed as critically important (5.2.12a) to treat any fish during the current production cycle, inform the CAB prior to scheduling audit.	None used.	Compliant	
		establish details of treatment, which pens were treated, and how the farm will ensure full tracea	Not applicable.		
5.2.13	Indicator: Number of treatments of antibiotics over the most recent production cycle Requirement: ≤ 3 Applicability: All		The applicant has supplied records of all antibiotic use and relevant prescriptions that number 16 on antibiotic use. The set has had one condition that has required treatment and that condition has been mouth rot which is endemic in British Columbia. The condition has been treated with one antibiotic use. The angling outbreak, which in the case of all mouthrot (yellowmouth), is difficult to get under control, when the fish are small. The site also requires multiple prescriptions to comply with both DFO and ASC (S2.11) requirements of not prophydiacially treating fish without continuing diagnosis that the disease is still present. DEO require that all treatments be uploaded to them using an online reporting system. The company has provided a copy of a report, showing that for the question on Tab 2 'Report Details' the Veterinarian has selected 'Ongoing' as the answer to the 'Occurrence' the asson and provide use guidance that stats 'fit militation (ie treatment) for mouth-rot was still aking place 30 days after the initial report then another FHE would need to submitted as an ongoing "occurrence", and every 30 days thereafter another "occurrence" FHE would require submitting etc	Compliant	1

5.2.14	Indicator: If more than one antibiotic treatment is used in the most recent production cycle, demonstration that the antibiotic load is at least 15% less that of the average of the two previous production cycles Requirement: Yes Applicability: All	a. Use results from 5.2.13b to show whether more than one antibiotic treatment was used in the most recent production cycle. If not, then the requirement of 5.2.14 does not apply. If yes, then proceed to 5.2.14b. b. Calculate antibiotic load (antibiotic load = the sum of the total amount of active ingredient of antibiotic used in kg) for most recent production cycle and for the two previous production cycle. For first audit, calculation must cover one full produc c. Provide the auditor with calculations showing that the antibiotic load of the most recent production cycle is at least 15% less than that of the average of the two previous production cycle. d. Submit data on antibiotic load to ASC as per Appendix VII applicable for each production cycle.	The farm has only used on antibiotic treatment for Mouth Rot. See 5.2.13. Detailed results have been submitted to ASC. Regardless of this the farm has made a full transparent declaration to ASC within the transparency documents, that the site has used 310.8kg of Florfenicol during this current yearclass. There was no antibiotic used on this site in the last yearclass, as the fish were onded oan another site prior to tranfer to this one.	NA	1 antibiotic treatment used.
	Indicator: Presence of documents demonstrating that the farm has provided buyers of its salmon a list of all therapeutants used in production	a. Prepare a procedure which outlines how the farm	Seawater SOP dated September 2020. Appropriate required records of last medication treatment (Harvest Declaration Form) will accompany fish to processing plant and transferred to plant staff. These must be reviewed by at least 2 site personnel to ensure the accuracy of these records.		
5.2.15	Requirement: Yes Applicability: All	b. Maintain records showing the farm has informed all buyers of its salmon about all therapeutants used in production.	SUPPLIERS QUALITY ASSURANCE LETTER, Grieg Seafood BC Ltd. – Brown's Bay Packing Co. Ltd. January 2020 supplied for review.	Compliant	
			terion 5.3 Resistance of parasites, viruses and bacteria to medicinal treatments Auditor Evaluation (Required CAB Actions):		
5.3.1	Indicator: Bio-assay analysis to determine resistance when two applications of a treatmen have not produced the expected effect	Therefore farms and auditors will need to review the p <u>Example: sea lice treatment with emamectin benzoate</u> The SAD SC recommends that a typical baseline for eff farm and auditor must review pre- and post-treatmen sea lice have developed resistance. Note: If field-based bio-assays for determining resistan t why field-based bio-assays were deemed ineffective and provide the second second second second second second second second second the second secon	that have not produced the expected effect. The SAD Steering Committee recognizes that the "expected effect" will vary with health condition and type of medicinal treatment. are- and post-treatment condition of fish in order to understand and evaluate the impact of treatment. technologies of emamentin benzoate is a minimum of 90 percent reduction in abundance of lice on the farmed fish. To determine whether treatment has produced the expected effect, t lice counts. If the calculated percent reduction in lice is < 90% then the treatment did not produce the expected effect and a bio-assay should be performed to determine whether the calculated percent reduction in lice is < 90% then the treatment did not produce the expected effect and a bio-assay should be performed to determine whether are are ineffective or unavailable, the farm shall have samples analyzed by an independent laboratory to determine resistance formation. The auditor shall record in the audit report		
	Requirement: Yes Applicability: All	a. In addition to recording all therapeutic treatments (5.2.1a), keep arecord of all cases where the farm uses two successive medicinal treatments. b. Whenever the farm uses two successive treatments, keep records showing how the farm evaluates the observed effect of treatment against the expected effect of treatment. c. For any result of 5.3.1b that did not produce the expected effect, ensure that a bio-assay analysis of resistance is conducted. d. Keep a record of all results arising from 5.3.1c.	Bioassays are carried out prior to any treatments in order to ascertain if the treatment will work in the first place. If the treatment is ineffective then something else will be used. To date no resistance has been detected.	Compliant	
5.3.2	Indicator: When bio-assay tests determine resistance is forming, use of an alternative, permitted treatment, or an immediate harvest of all fish on the site Requirement: Yes Applicability: All	a. Review results of bio assay tests (5.3.10) for evidence that resistance has formed. If yes, proceed to 5.2.2h. if on them invitentor, 5.2.2 is not antivibial b. When bio-assay tests show evidence that resistance has formed, keep records showing that the farm took one of two actions: - used an alternative treatment (if permitted in the area of operation); or - immediately havested all (bich on size)	Not applicable as no resistance to pesticide use has been detected. None detected. Alternates are being trialled such as the physical removal of lice from fish using high pressure.	Compliant	
	Indicator: Specific rotation, providing that the farm has >1 effective medicinal treatment	a. Determine how many effective medicinal treatment products the farm uses.	Internal medicinal treatments allowed in Canada, for Lice is just one and that's Emmamectin benzoate or SLICE. The only other allowed pesticide is Hydrogen peroxide baths H2O2.		

		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote			[95] See Appendix VI for transparency requirements for 5.4.2 and 5.4.4.		
5.4.1	Indicator: Evidence that all salmon on the site are a single-year class [96] Requirement: 100% [97] Applicability: All farms except as noted in [97]	receipts, delivery records) to show that there were no	In section 2.2.1 of the sites Fish health management plan: Single year-class farms Containment arrays (i.e. production farms, not including broodstock holding facilities) ideally contain a single year-class of finfish livestock to minimize the transmission of pathogens between age classes of fish. In other words, an 'all stock in; all stock out' approach is encouraged. First stocking date was 06/10/2019. Fallowing period was for 107 Days (6/20/2019-10/6/2019)	Compliant	100%
Footnote		[96] Gaps of up to six months between inputs	of smolts derived from the same stripping are acceptable as long as there remains a period of time when the site is fully fallow after harvest.		
Footnote	2) farm sites that have ≥95% water recircu	llation, a pre-entry disease screening protocol, dedicated	[97] Exception is allowed for: units where there is complete separation of water between units and no sharing of filtration systems or other systems that could spread disease, or, quarantine capability and biosecurity measures for waste to ensure there is no discharge of live biological material to the natural environment (e.g. UV or other effective treatment of	f effluent) .	
5.4.2	Indicator: Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm experiences unexplained increased mortality, [B8] the farm has: 1. Reported the issue to the ABM and to the appropriate regulatory authority 2. Increased monitoring and surveillance [99] on the farm and within the ABM 3. Promptly [100] made findings publicly available Requirement : Yes Applicability: All	Increase in unexplained mortalities; or - the answer to 5.42 bwa 3/we Otherwise, Indicator 5.4.2 is not applicable. or. Trequiree, ensure that the Tarm Takes and records the following steps: 1) Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 1.0 Ecomatik Jubbio near month make findinge e. As applicable; submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortaling. If applicable, then	Farms in BC are required to inform the authorities of significant mortality events. "Mortality event" means: (a) fish mortalities equivalent to 4000 kg or more, or losses reaching 2% of the current facility inventory, within a 24 hour period; or (b) fish mortalities equivalent to 10,000 kg or more, or losses reaching 5%, within a five day period. The company is constantly keeping itself informed of research into potential unknown viral diseases. Fish are tested routinely each month. Samples are sent to the likes of the BC Centre for Aquatic Health Sciences (BC CAHS) located in Campbell River. No unidentifiable transmissible agent has been suspected.	Compliant	
		data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).			
Footnote			3] Increased mortality: A statistically significant increase over background rate on a monthly basis.		
Footnote		[99] Primary	aim of monitoring and surveillance is to investigate whether a new or adapted disease is present in the area.		
Footnote		1	[100] Within one month.		
5.4.3	Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] Requirement: Yes Applicability: All	For purposes of the ASC salmon Standard, this means previously found in the area or had been fully eradicat - depopulation of the infected site; - implementation of quarantine zones (see note below - additional actions as required under Indicator 5.4.4. To demonstrate compliance with Indicator 5.4.3, client integrating them into the farm's fish health management of the second s	Impliance with the OIE Aquatic Animal Health Code (see http://www.ole.int/index.php?id=171). Compliance is defined as farm practices consistent with the intentions of the Code. hat the farm must have written procedures stating how the farm will initiate an aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = not d afrea declared free of the pathogen]. An aggressive response will involve, at a minimum, the following actions: Jin accordance with guidelines from OIE for the specific pathogen; and s have the to option to describe how farm practices are consistent with the intentions of the OIE Aquatic Animal Health Code by developing relevant policies and procedures and		
	Applicating: All	a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version. b. Develop policies and procedures as needed to ensure that farm practices remain consistent with the OIE Aquatic Animal Health Code (5.4.3a) and with actions required under indicator 5.4.4.	On review the fish health management plan is consistent with the OIE animal health code. The OIE health code is available online and this is known by relevant staff.	Compliant	
Footnote			of this standard, this includes an aggressive response to detection of an exotic OIE-notifiable disease on the farm, which includes depopulating the infected site and implementation o close to the infected site and affect some, though not necessarily all, of the ABM. Exotic signifies not previously found in the area or had been fully eradicated (area declared free of the		in accordance with guidelines from Ol
Footnote			[102] OIE 2011. Aquatic Animal Health Code. http://www.oie.int/index.php?id=171.		

	Indicator: If an OIE-notifiable disease [103] is confirmed on the farm, evidence that: 1. the farm, at a minimum, immediately culled the pen(s) in which the disease was detected 2. the farm immediately notified the other farms in the ABM [104] 3. the farm and the ABM enhanced monitoring and conducted rigorous testing for the disease 4. the farm promptly [105] made findings publicly available Requirement: Yes Applicability: All	 a. Ensure that farm policies and procedures in 5.4.3 a describe the four actions required under Indicator 5.4.4 in response to an OLE-notifiable disease on the farm. b. Inform the CAB IF an OLE-notifiable disease has been confirmed on the farm during the current production cycles or the two previous production (ycles if yes) proceed to 5.4.4. If an OLE-notifiable disease has been confirmed on the farm during the current production cycle or the two previous production (ycles if yes) proceed to 5.4.4. If an OLE-notifiable disease was confirmed on the farm during the current production cycle or the two previous production (ycles if yes) proved 27.9.15 by ASC on indicator 5.4.4. Rationale for use of VR 89 during audit is that VHS is endemic in BC and does not require compulsory culling. VR nr.89 approved 27.9.15 by ASC on indicator 5.4.4. Rationale for use of VR 91 during audit is that VHS is endemic in BC and does not require compulsory culling. VR nr.89 approved 27.9.15 by ASC on indicator 5.4.4. Rationale for use of VR 91 during audit is that VHS is endemic in BC and does not require compulsory culling. VR nr.89 approved 27.9.15 by ASC on indicator 5.4.4. Rationale for use of VR 91 during audit is that VHS is endemic in BC and does not require compulsory culling. The have been no notifiable diseases detected onsite. VR nr.89 approved 27.9.15 by ASC on indicator 5.4.4. Rationale for use of VR 91 during audit is that VHS is endemic in BC and does not require compulsory culling. The have been no notifiable diseases detected onsite. 	Compliant			
Footnote	[103] At the time of publication of the final draft s	1 andards, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic haematopoietic necrosis, Infectious haematopoietic necrosis (IHN), Infectious salmon anemia (ISA), Viral hemorrhagic septicemia (VHS) and Gyrodactylo	is (Gyrodactylus salaris).			
Footnote		[104] This is in addition to any notifications to regulatory bodies required under law and the OIE Aquatic Animal Health Code.				
Footnote		[105] Within one month.				
	ELOP AND OPERATE FARMS IN A SOCIALLY RESPONSIBLE MANNER	Social requirements in the standards shall be audited by an individual who is a lead auditor in conformity with SAAS Procedure 200 section 3.1.				
PRINCIPLE O. DEVI		6.1 Freedom of association and collective bargaining [106]				
		Compliance Criteria				
Footnote		[106] Bargain collectively: A voluntary negotiation between employers and organizations of workers in order to establish the terms and conditions of employment by means of collective (written) agreements.				
6.1.1	Indicator: Evidence that workers have access to trade unions (if they exist) and union representative(s) chosen by themselves without managerial interference Requirement: Yes Applicability: All	No trade unions are present at the site. The Code of Conduct is provided to all employees, with signed acknowledging acceptance, and they are tested to show they have understood the information it contains. Code of Conduct – Gf Care for People – Privacy and Rights – We are committed to respecting the privacy of individuals and handle personal data responsibly and in compliance with applicable laws. We recognize the right to organize to promote and defe occupational interests. Employees, during private interviews confirmed that they signed the Contract of Employment and felt that their rights are not affected. Employees signed receiving and accepting a copy of the Employee Handbook and an effective of door policy for communication in Code of Conduct – Our Values/Our Vision.	d Compliant			
6.1.2	Indicator: Evidence that workers are free to form organizations, including unions, to advocate for and protect their rights Requirement: Yes Applicability: All	GRIEG – Revised Code of Conduct – Care for People – Privacy and Rights – We are committed to respecting the privacy of individuals and handle personal data responsibly and in compliance with applicable laws. We recognize the ri organize to promote and defend occupational interests. Right to Organize – We expect all Grieg Seafood Employees to: a. Know and understand all local or applicable legal obligations in relation to labor and collective bargaining. B. Engage in open and free dialogue concerning conduct of labor and labor relations in Grieg Seafood. Employees, during private interviews confirmed that they signed the Contract of Employment and felt that their rights are not affected. Employees signed receiving and accepting a copy of the Employee Handbook & Code of Condu	Compliant			
6.1.3	Indicator: Evidence that workers are free and able to bargain collectively for their rights Requirement: Yes Applicability: All	GRIEG – Code of Conduct – Right to Organize – All Grieg Seafood Employees: a. Know and understand all local or applicable legal obligations in relation to labor and collective bargaining. B. Engage in open and free dialogue concern conduct of labor and labor relations in Grieg Seafood. The employer has explicitly communicated a commitment to ensure the collective bargaining rights of all workers as stated in 6.1.1 & 6.1.2. The documentary evidence shows that workers are free and able to bargain collectively. De in the Code of Conduct and training records, maintained in DATS.	Compliant			
	· · · · · · · · · · · · · · · · · · ·	Criterion 6.2 Child lobor				
		Compliance Criteria				
6.2.1	Indicator: Number of incidences of child [107] labor [108] Requirement: None Applicability: All except as noted in [107]	Grieg Seafood - Ages of all workers stored on Human Resources management system. There are no persons employed under the age of 18. Age of hire is at a minimum age of 18 years of age, nothing younger. Facility will not hire and under age 16, but for barge work, it will be 18 years of age, nothing younger. Facility will not hire and under age 16, but for barge work, it will be 18 years of age, nothing younger. Facility will not hire and under age 16, but for barge work, it will be 18 years of age, nothing younger. Facility will not hire and under age 16, but for barge work, it will be 18 years of age, nothing younger. Facility will not hire and it is individuals and without discrimination. We do not tolerate any form of forced labor and are committed to the abolition of child labor. Check of random selected employees from the 3 farm locations, reviewed during audit and none were below 18 years o time of hire. Identification is held on file for all farm employees and is signed and verified by senior Management at the point of employment. Required checks of personal Social insurance Number, which is a 9-digit number required to work in Canada. Reviewed all randomly selected personnel on all 3 sites of the scope of the audit with the check of hire date and age, was found that youngest of the sampled was age 18 at time of hire.				
Footnote	[107] Child: Any person under 15	ears of age. A higher age would apply if the minimum age law of an area stipulates a higher age for work or mandatory schooling. Minimum age may be 14 if the country allows it under the developing country exceptions in ILO conve	ion 138.			
Footnote	te [108] Child Labor: Any work by a child younger than the age specified in the definition of a child.					

6.2.2	Requirement: 100%	Ages of all workers stored on Human Resources management system. There are no persons employed under the age of 18. Age of hire is at a minimum age of 18 years of age, nothing younger. At time of hire, two forms of identification is reviewed, which is normally the SIN Number and another form of ID, such as a Drivers License or Passport. Facility will not hire anyone under age 16, but for barge work, it will be 18 years oid as a minimum age. No young workers employed at the time of the audit. During tour of the areas of work, no workers had the appearance of being under age, and review of personnel files confirmed compliance. Youngest randomly sampled employee was age 18 at the time of hiring.	Compliant	100%			
Footnote		[109] Young Worker: Any worker between the age of a child, as defined above, and under the age of 18.					
Footnote	[110] Protected: Workers between	15 and 18 years of age will not be exposed to hazardous health and safety conditions; working hours shall not interfere with their education and the combined daily transportation time and school time, and work time shall not exceed 10 ho	urs.				
Footnote		[111] Hazard: The inherent potential to cause injury or damage to a person's health (e.g., unequipped to handle heavy machinery safely, and unprotected exposure to harmful chemicals).					
Footnote	[112] Hazardous work: Work that, by its nature or the circumstances in which it is carried out, is likely to harm the health, safety or morals of workers (e.g., heavy lifting disproportionate to a person's body size, operating heavy machinery, exposure to toxic chemicals).						
		Criterion 6.3 Forced, bonded or compulsory labor					
		Compliance Criteria					

6.3.1	Indicator: Number of incidences of forced, [113] bonded [114] or compulsory labor Requirement: None Applicability: All	All employees are provided with contracts of employment, that are signed by both the employee and the company, and this was confirmed during the private interviews of randomly selected employees. Employees can keep a copy of the contract and the employer retains a signed copy. Original identity documents are not kept by the company and are returned to the employees after verification. Documentation checks confirmed that all working hours is conducted on a voluntary basis. The employees not withhold any part of workers' salaries, benefits, property or documents to oblige them to continue working for the employee. All employees that work is voluntary and that employees are free to leave upon reasonable notice. All employees understand and comply with all applicable laws and international conventions on labor practices to which Grieg Seafood subscribes and supports. No employees are repaying debt. The randomly selected employees confirmed all the above during the interview process with no issues raised.	Compliant					
Footnote	[113] Forced (Compulsory) labor: All work or service that is extracted from any person u	[113] Forced (Compulsory) labor: All work or service is a repayment of debt. "Penalty" can imply monetary sanctions, physical punishment, or the loss of rights and privileges or restriction of movement (e.g., withholding of identity documents).						
Footnote		[114] Bonded labor: When a person is forced by the employer or creditor to work to repay a financial debt to the crediting agency.						
		Criterion 6.4 Discrimination [118]						
		Compliance Criteria						
Footnote	[115] Discrimination: Any distinction, exclusion or preference that has the effect of nullifyi	ng or impairing equality of opportunity or treatment. Not every distinction, exclusion or preference constitutes discrimination. For instance, a merit- or performance-based pay increase or bonus is not by itself discriminatory. Positive discrim groups may be legal in some countries.	nination in favor o	f people from certain underrep	esented			
	Indicator: Evidence of comprehensive [116] and proactive anti-discrimination policies, procedures and practices Requirement: Yes Applicability: All	The anti-discrimination policy that is in place, indicates that the company does not treat people as members of a class, based on race, ethnicity, national or other origin, disability, age, gender, sexual orientation, language, religion, or any other characteristics. Base employment decisions on job qualifications and merit. Positive discrimination is tolerated in order to achieve equality and diversity. Provide a work environment free from harassment and bullying. All employees are respected with regards equal treatment as confirmed during the private and confidential interview process. All managers have been trained in equality and diversity, and evidence of the training is recorded on DATS, which has required annual recertification.	Compliant					
Footnote	[116] Employers shall have written anti-discrimination policies stating that the company of	oes not engage in or support discrimination in hiring, remuneration, access to training, promotion, termination or retirement based on race, caste, national origin, religion, disability, gender, sexual orientation, union membership, political discrimination.	ffiliation, age or a	ny other condition that may give	e rise to			
6.4.2	Indicator: Number of incidences of discrimination Requirement: None Applicability: All	The facility has a procedure in place to document all discrimination complaints. To date, there are no current any open complaints. When asked during the private interview process with randomly selected employees, there was no issues mentioned by the employees. All the employees commented on the fairness and stable work environment, regardless of length of employment.	Compliant					

		Criterion 6.5 Work environment health and safety		
		Compliance Criteria Grieg Seafood Management Control Program Specifics:		
6.5.1	Indicator: Percentage of workers trained in health and safety practices, procedures [117] and policies on a yearly basis Requirement: 100% Applicability: All	Grieg Seafood has a comprehensive OHS Management System based on the federal and provincial health and safety requirements (WorkSafeBC, Transport Canada etc.) The program includes Grieg's Health and Safety Policy, Standards, and various work procedures. Grieg's Management Control Program integrates Occupational Health and Safety and Environmental Management System under GSE (Greig Seafood Excellence) Program and is documented and controlled using an electronic system DATS (Digital Action Tracking System). Grieg's OHS Management System was audited under a provincial safety standard of excellence OSSE (Occupational Safety Standard of Excellence) and was awarded in 2019 with the OSSE Certification. This certification is granted to companies who have successfully developed and implemented a comprehensive Health & Safety Management System to OSSE standards. To maintain this certification the OHS Management System is audited devery year, between re- certifications. Environmental Accession and Response = TD - Emergency Preparedness and Response = TD - Training & Instruction, App. 1 - Training Matrix = TD - Here (Instruction, App. 1 - Training Matrix = TD - Here (Instruction, App. 1 - Training Matrix = TD - Here (Instruction, App. 1 - Training Matrix = TD - Here (Instruction, App. 1 - Training Matrix = TD - Here (Instruction, App. 1 - Training Matrix = TD - Here (Instruction, App. 1 - Training Matrix = TD - Here (Instruction, App. 1 - Training Matrix = TD - Hinke Material Information Sheet) = TD - Hinke Material Information Sheet] = APT (Instruction Drills were completed at the sites on the following dates: = Espenanz: = Bunza; = Bunza; = Bunza; = Bunza; = Spenanz;	Compliant	100%
Footnote		[117] Health and safety training shall include emergency response procedures and practices.		
6.5.2	Indicator: Evidence that workers use Personal Protective Equipment (PPE) effectively Requirement: Yes Applicability: All	 *Safety Data Sheets (SDS) readily available for workers. *Sing is transitioning to an online SDS portal named CHEMSCAPE that will provide high quality controls over their SDS database. Their PPE (Personal Protective Equipment) Standard outlines training and wearing requirements for employees and concern work in any of Grieg's operational areas. Risk assessments tools like ICR (identification of Critical Risk) and IHA (job Hazard Assessment) are used to identify, control (reduce or eliminate) and rank the risks at Grieg Seafood BC. Health and safety Standard and procedures that outlines roles, responsibilities, and training requirements around risk assessments or eliminate) and rank the risks at Grieg Seafood BC. Health and safety Standard and procedures that outlines roles, responsibilities, and training requirements around risk assessments and PPE: TD - Hyatrad Identification of Critical Risk Assessments HPE (Personal Protective Equipment) Standard TD - Inspections & Monitoring #ORM – Job Hazard Assessment (IHA) #ORM – Job Hazard Assessment (IHA) #ORM – Job Hazard Assessment (IHA) 	Compliant	
6.5.3	Indicator: Presence of a health and safety risk assessment and evidence of preventive actions taken Requirement: Yes	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: • Identification of Critical Risks (ICR), and • Job Hazard Assessment (JHA). These risk assessment processes are used to categorize risks and determine whether controls are adequate, or if a job may proceed. STD-Inspections and Monitoring that outlines requirements for inspection frequency and expectations for identifying and implementing corrective actions. Monthly inspections: done by department management. Quarterly inspections: done by Health & Safety Management Team in conjunction with JOHSC (Joint Occupational Health and Safety Committee)	Compliant	
6.5.4	recorded and corrective actions are taken when necessary	New Standard for Investigating and Reporting of Hazards and Unwanted Events. This Standard is under implementation at the time of the audit. Follow up update of the implementation status will be provided by the HS manager to the next ASC audit. The HS Department provides Health and Safety Performance Metrics to the Senior Management Team and across the organisation on a quarterly base, 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.)One incident reported last year: close call, Oct 4, 2020.	Compliant	
6.5.5		Insurance is available for all workers to ensure that they are compensated to cover costs related to occupational accidents. Public liability insurance is also available to cover all over parties. Workers Compensation Act – is posted in the upstairs office. WorkSafe BC Part 3, Division 3 – General Duties of Employer, workers and others. This is posted and all employees are covered. Interviewed employees confirmed 100% coverage of all medical costs associated with on-job injuries. 3rd party injury support company – TeksMed, Inc. This company supports employees through return to work process.	Compliant	
		Note: If the farm outsources its diving operations to an independent company, the farm shall ensure that auditors have access to specified information sufficient to demonstrate compliance with indicator 6.5.6. It is the farm's responsible	lity to obtain	
6.5.6	Requirement: Yes Applicability: All	Copies of relevant documentation (e.g. certificates) from the dive company. Employer keeps records of all farm diving operation. All external divers are given full details of the operations that are required. Auditor reviewed the dive certifications, and all maintained as noted. Dive Certifications – last reviewed each dive certification from both dive companies updated 2019 forms, and all maintained prior to each proposed dive dates. The BC Government operate an approved contractor scheme called Work Safe, all contractors used must be continually registered. Reviewed WorkSafe BC certifications for these authorized companies, along with the specific divers' certifications are maintained. Employer keeps records of the farm diving operations. All external diving personnel are from Dive Co and All Pen – These are the only two companies authorized to perform diving operations – All certifications are reviewed and updated annually. All work for divers is required to be through the Underwater Diving Plan (Document 1.1) for all contractors at Grieg Seafood. All Contracted work must have certification prior to work beginning, no exceptions as referenced in WorkSafe BC OHS Regulation Part 24.	Compliant	
		Criterion 6.6 Wages		
		Compliance Criteria		

6.6.1	Indicator: The percentage of workers whose basic wage [118] (before overtime and bonuses) is below the minimum wage [119] Requirement: 0 (None) Applicability: All	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 is accepted by all employees at time of employment. Employees receive wage payments biweekly by direct deposit. All interviewed workers stated they were clear on wages rates and had no issues with payments. Overtime Standard/Policies are noted in the HR Manual and in the employee Handbook, and available in DATS	Compliant	0
Footnote		[118] Basic wage: The wages paid for a standard working week (no more than 48 hours).		
Footnote		[119] If there is no legal minimum wage in a country, basic wages must meet the industry-standard minimum wage.		
6.6.2	Indicator: Evidence that the employer is working toward the payment of basic needs wage [120] Requirement: Yes Applicability: All	There is no nationally recognized Living Wage in Canada. Grieg Seafood uses information from 1. Statistics Canada, (unemployment rate, consumer price index), 2. Korn 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. Minimum wage for BC Canada is \$14.50	Compliant	
Footnote	[120] Basic needs	wage: A wage that covers the basic needs of an individual or family, including housing, food and transport. This concept differs from a minimum wage, which is set by law and may or may not cover the basic needs of workers.		
6.6.3	Indicator: Evidence of transparency in wage-setting and rendering [121] Requirement: Yes Applicability: All	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 biweekly 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 was \$18.00 per hour.	Compliant	
Footnote		[121] Payments shall be rendered to workers in a convenient manner.		

Criterion 6.7 Contracts (labor) including subcontracting						
		Compliance Criteria				
	Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All	All employees are provided with a contract of employment, and a copy of the contract was available in the sampled personnel files. CONFIRMED WITH HR Generalist – Reviewed on 1/29/2021 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.			100%	
Footnote		ble. This includes revolving/consecutive labor contracts to deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practice of hiring workers under apprenticeship terms without stipulating terms of the apprentice derage workers. Labor-only contracting arrangement: The practice of hiring workers without establishing a formal employment relationship for the purpose of avoiding payment of regular wages or the provision of legally required benefits			renticeship	
	Indicator: Evidence of a policy to ensure social compliance of its suppliers and contractors Requirement: Yes Applicability: All	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 expectations. 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.	Compliant			
		Criterion 6.8 Conflict resolution				
		Compliance Criteria				
6.8.1	Indicator: Evidence of worker access to effective, fair and confidential grievance procedures Requirement: Yes Applicability: All	The Workplace Bullying, Harassmenet, Violence and Improper Activelty or Behavior - May 2019 latest version. This policy is available for all perosnnel. Employees have access to all HR policies through the intranet, and during interviews with the randomly selected employees confirmed they were aware of this. These 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.	Compliant			
6.8.2	Indicator: Percentage of grievances handled that are addressed [123] within a 90-day timeframe Requirement: 100% Applicability: All	As per HR Generalist, all issues are resolved within a 14 day as a average. Reviewed some documented grievances and all seem to be properly documented and completed. The Workplace Bullying, Harassmenet, Violence and Improper Activeity or Behavior - May 2019 latest version. Amy grievances that are 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 to submitted.	Compliant		100%	
Footnote		[123] Addressed: Acknowledged and received, moving through the company's process for grievances, corrective action taken when necessary.				
		Criterion 6.9 Disciplinary practices				
	Indicator: Incidences of excessive or abusive disciplinary actions Requirement: None Applicability: All	Compliance criteria Grieg Seafood Employee Handbook, June 2020 version, page 33 – 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.	Compliant			
Footnote		[124] Mental Abuse: Characterized by the intentional use of power, including verbal abuse, isolation, sexual or racial harassment, intimidation or threat of physical force.				
6.9.2	Indicator: Evidence of a functioning disciplinary action policy whose aim is to improve the worker [125] Requirement: Yes Applicability: All	Covered in the Grieg EMPLOYEE HANDBOOK – Page 33 – 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.	Compliant			
Footnote	[125] If disciplinary action is required, progressive verbal and written warnings shall be	engaged. The aim shall always be to improve the worker; dismissal shall be the last resort. Policies for bonuses, incentives, access to training and promotions are clearly stated and understood, and not used arbitrarily. Fines or basic wage de	ductions shall no	t be acceptable disciplinary pra	ictices.	

		Criterion 6.10 Working hours and overtime		
		Compliance criteria Note: Working hours, night work and rest periods for workers in agriculture should be in accordance with national laws and regulations or collective agreements (e.g. The Safety and Health in Agriculture Convention, 2001). Additional info	ormation can be found on the website of the Inte	ernational
6.10.1	Indicator: Incidences, violations or abuse of working hours and overtime laws [126] Requirement: None Applicability: All	The company holds documentation for Employment Standards Act for BC for working regulations. The working shift pattern at the site is carried out over two weeks. The working day is 10 hours. The shift pattern consists of 8 days on and 6 days off. The averaged hours over the 2 weeks is 40 hours per week.	Compliant	
Footnote		[126] In cases where local legislation on working hours and overtime exceed internationally accepted recommendations (48 regular hours, 12 hours overtime), the international standards will apply.		1
6.10.2	Indicator: Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional drcumstances Requirement: Yes Applicability: All except as noted in [130]	The employees are paid a premium rate for overtime hours. Employees are paid 150% of standard pay for the first 2 hours of overtime above 10 hours in any 24 hours pay period and 200% of standard pay for any hours worked over 12 hours in any 24 hours. This is agreed to in the contract that all employees sign and accept. The time and attendance system confirmed that overtime is infrequent. Overtime is worked on a voluntary basis as confirmed during the interview process, and then with payroll review of the payroll dates selected by the auditor in January 2021 pay period.	Compliant	
Footnote		[127] Compulsory overtime is permitted if previously agreed to under a collective bargaining agreement.		1
Footnote		[128] Premium rate: A rate of pay higher than the regular work week rate. Must comply with national laws/regulations and/or industry standards.		
		Criterion 6.11 Education and training		
6.11.1	Indicator: Evidence that the company regularly performs training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes Applicability: All	Compliance criteria 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. 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.	Compliant	
		Criterion 6.12 Corporate policies for social responsibility		
		Compliance criteria		
6.12.1	Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.1 above Requirement: Yes Applicability: All	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.	Compliant	
Footnote	[129] Applies to the headquar	ters of the company in a region or country where the site applying for certification is located. The policy shall relate to all of the company's operations in the region or country, including grow-out, smolt production and processing facilities.		
	A GOOD NEIGHBOR AND CONSCIENTIOUS CITIZEN	Social requirements in the standards shall be audited by an individual who is a lead auditor in conformity with SAAS Procedure 200 section 3.1.		
FAINCIPLE 7: BE	ROOD REGISOR AND CONSCIENTIOUS CITIZEN	Criterion 7.1 Community engagement		
7.1.1	Indicator: Evidence of regular and meaningful [130] consultation and engagement with community representatives and organizations Requirement: Yes Applicability: All	Compliance Criteria Grieg regularly engages with community members and the local municipality, particularly the Mayors and Councillors via online meetings, phone calls and email communications. It has established relationships with two local governments for the communities of Zebalios and Tahsis. In 2020, Grieg twice donated fresh salmon to these communities after travel restrictions and access to fresh food on a weekly basis became restricted during the COVID Pandemic. In the coastal town of Tahsis, Grieg donated travel funds to the elecal salmon to these communities after travel restrictions and access to fresh food on a weekly basis became restricted during the COVID Pandemic. In the coastal town of Tahsis, Grieg donated travel funds to the elementary school in Zebalios to that students could participate in an exchange with another province. Grieg is currently in the process of working with the Enatesaht Chinehkint and local community of Zebalios to share the costs of upgrading the Nation's dock facilities and offer a complete blood water catchment system during fish offload from Grieg's farms. Grieg also independently contributed to costs of upgrading the dock to better accommodate its contractor's harves traces. This allowed fish from the Esperana line farms which previously were offloaded through another community dock outside of the Nation's territory, so they could now be moved through the Ehattesaht Chinehkint docking facilities, providing a long-term economic benefit to both the remote indigenous community and adjacent municipal community. With regards to the ongoing spill of fuel from the sunken MV Schiedyke near Bligh Island in Nootka Sound, Grieg continues to provide assistance and support for spill clean up efforts, donating \$20,000 in mooring equipment to date.		
Footnote	[130] Regular and meaningful: Meetings shall	be held at least bi-annually with elected representatives of affected communities. The agenda for the meetings should in part be set by the community representatives. Participatory Social Impact Assessment methods may be one option to	consider here.	

7.1.2	Indicator: Presence and evidence of an effective [131] policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All	m the Grieg Seafood External complaints resolution policy dated June 2019. This policy sets out direction for Grieg Seafood BC Ltd. ("Grieg BC") to receive, respond to, and resolve complaints received externally to the company. nplaints will be handled by the Director of Indigenous & Community Relations who may determine that a complaint may be transferred for response by another representative of Grieg BC. The recipient must acknowledge to the grinal recipient of the complaint that he/she has received it and will act on It. On receiving the complaint, the Director will initiate Grieg BC's complaint examination cess. A complaint lis is created, which will contain the complaint's name, phone number and email, the outcome of the investigation process, and all written correspondences to the complainant. tated that there have been no complaints.				
Footnote		[131] Effective: in order to demonstrate that the mechanism is effective, evidence of resolutions of complaints can be given.				
7.1.3	Indicator: Evidence that the farm has posted visible notice [132] at the farm during times of therapeutic treatments and has, as part of consultation with communities under 7.1.1, communicated about potential health risks from treatments Requirement: Yes Applicability: All	Signage posted on farms and record of consultations attached for the Pesticide Use Permits. Dated June 9th 2020: Letter from the Ehattesaht Chinehkint nation to Ministry of Environment showing that the company informs the first nations rightsholders of their intention to treat when this is needed.	Compliant			
Footnote		[132] Signage shall be visible to mariners and, for example, to fishermen passing by the farm.				
		Criterion 7.2 Respect for indigenous and aboriginal cultures and traditional territories				
	Compliance Criteria Instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of Indigenous Groups The ASC Salmon Standard requires that farms must be respectful of the traditional territories of indigenous groups. The Indicators listed under Criterion 7.2 were designed to fulfill this purpose in a manner consistent with the United Nations Declaration on the Rights of Indigenous Peoples. In many locales, the territorial boundaries of indigenous groups have a defined legal status according to local or national law. In such cases, it is straightforward to know whether a farm is operating in close proximity to indigenous groups. Here ASC Salmon Standard is that the farm will identify all neighboring groups who are potentially negatively impacted by the farm's activities. The actual physical distance between the farm and an indigenous group is less important than understanding whether the farm is having a detrimental impact upon its neighbors. Effective community consultations are one of the best ways to identify such impacts to neighbor groups. Through a transparent process of consultation, indigenous groups who are put under "stress" by the farm will identify themselves and voice their concerns about the nature of the farm's impacts. Continued consultations between farm and neighbors should create a forum where any key issue can be discussed and resolved.					
7.2.1	Indicator: Evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	All farms operate in indigenous territories (see SOE reports). Two licences are issued by government; the federal government issues the Marine Finfish Aquaculture Licence under the Fisheries Act and the province issues the Provincial tenure. Grieg is aware of Local, national laws and regulations for each. First Nation. Grieg has an impact Benefits Agreement with the Ehattesaht Chinehkint and is currently in negotiations with the Nuchatlaht First Nation toward an Impact Benefits Agreement. In February of 2020, Grieg invited two elected Councillors of the Ehattesaht Chinehkint to join them on a week-long tour of its farm, hatchery and fish processing operations in Norway together with Councillors of two other Nations with whom Grieg has benefits agreement. Grieg demonstrates proactive engagement and supports government consultation. In its ongoing efforts to recognize the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP), the Province of BC's Bill 41 and Canada's steps towards reconciliation, Grieg Seafood BC has created a new position – the Director of Reconciliation and Partnerships, whose role is to reach out to Elders and Chiefs of each Nation for which Grieg has a benefits agreement, to understand the cultural and historical effects of Companies operating in their traditional territories. https://www.griegseafoodcanada.com/2020/02/grieg-seafood-bc-adds-new-role-of-director-of-reconciliation/ No representatives made themselves available for the audit.	Compliant			
7.2.2	Indicator: Evidence that the farm has undertaken proactive consultation with indigenous communities Requirement: Yes [133] Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	In relation to consultations: For treatments there is signage posted on farms and record of consultations attached for the Pesticide Use Permits. From the Grieg Impact assessment they state 'Grieg has good working relationship and agreement with the Ehattesaht First Nation who are rights holders of Esperanza Inlet/ Hecate Channel, the area in which we operate. They have provided information regarding the location of any significant or critically important, culturally sensitive or resource use areas, which the sea sites are not located near nor impede access to. We are also engaging Nuchatlaht First Nation who are also rights holders of the area.' Also see 7.1.3	Compliant			
Footnote		[133] All standards related to indigenous rights only apply where relevant, based on proximity of indigenous territories.				
7.2.3	Indicator: Evidence of a protocol agreement, or an active process [134] to establish a protocol agreement, with indigenous communities Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	Grieg have provided SOE reports that were provided by the provincial government. Environmental Reporting BC provides access to scientific data and information about the environment and how it relates to British Columbians. This includes first nation sights holders in the licenced areas. These first nation rightsholders were consulted and are consulted about the farm sites activities. Licenceing would not have been possible without these indegineous communities being onboard with the activities.				
Footnote	[134] To demonstrate an active p	rocess, a farm must show ongoing efforts to communicate with indigenous communities, an understanding of key community concerns and responsiveness to key community concerns through adaptive farm management and other actions	i.			

	Criterion 7.3 Access to resources						
		Compliance Criteria					
7.3.1	Indicator: Changes undertaken restricting access to vital community resources [135] without community approval Requirement: None Applicability: All	have authorizations issued by Nav Canada under the N INDIGENOUS STAKEHOLDERS Grieg has good working relationship and agreement wi	ng groups and recreational tourism groups (Nootka CLUP), none of the sites block access to fishing grounds nor impede local boat traffic Appendix 1 – Recreational Maps. The sites	Compliant			
Footnote	[135] Vital community resources can include f	reshwater, land or other natural resources that commun	ities rely on for their livelihood. If a farm site were to block, for example, a community's sole access point to a needed freshwater resource, this would be unacceptable under the Dialo	gue standard.			
7.3.2	Indicator: Evidence of assessments of company's impact on access to resources Requirement: Yes Applicability: All	There are commercial fisheries area indicated for crab identified in the provincial databases. Appendix 1 – Ma The area is used by herring which been identified as an	Grieg Impact assessments on the Esperenza Inlet dated October 2020: commercial fisheries area indicated for crab areas in the inlet, the sites do not impede access to these areas. There are no other commercial fisheries, dive sites, marine campsites, kayak interest locations, or other uses in the provincial databases. Appendix 1 – Maps for the location of the Commercial Crab Fisheries, Appendix 1 – Maps for Recreational Areas. Used by herring which been identified as an important commercial and cultural species. There are annual spawns in area 253 (Esperanza Inlet) that is located just west of the Steamer Point site. Refer to Appendix 1 – Maps for pring Spawn areas. The aquaculture industry does not generally impact the fishery (Wild Fish Predation Project).				
A farm seeking o	certification must have documentation from all of its smolt suppliers to demonstrate compl	ance with the following standards. The requirements an	INDICATORS AND STANDARDS FOR SMOLT PRODUCTION t, in general, a subset of the standards in Principles 1 through 7, focusing on the impacts that are most relevant for smolt facilities. In addition, specific standards are applied to open sys (recirculation and flow-through). [136]	stems (net pens),	and to closed and semi-closed systems		
Footnote	[136] The SAD SC proposes this approach to addressing environmental and social perform	ance during the smolt phase of production. In the mediu	n term, the SC anticipates a system to audit smolt production facilities on site. In the meantime, farms will need to work with their smolt suppliers to generate the necessary document documentation will be reviewed as part of the audit at the grow-out facility.	tation to demons	rate compliance with the standards. The		
			SECTION 8: STANDARDS FOR SUPPLIERS OF SMOLT Standards related to Principle 1				
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
	supplier, identify the type of smol used (e.g. open, semi or closed sy this information to ASC (Appendis Indicator: Compliance with local and national regulations on water use and discharge, b. Where legal authorisation relat	 a. Identify all of the farm's smolt supplier. For each supplier, identify the type of smolt production system used (e.g. open, semi or closed systems) and submit this information to ASC (Appendix VI). 					
81		are required, obtain copies of smolt suppliers' permits.	2 Hatcheries are used for stocking this Site. Gold River owned by GRIEG and Lena Creek who GRIEG are the only customer GRIEG: Gold River Hatchery: Freshwater/Land-based Aquaculture Licence Under the Fisheries Act, Licence No. AQFW 115270 2015/2024, Issued by DFO and expiring June 18, 2024. Permit PE17245 issued by the BC Ministry of Environment, Lands and Parks specifying effluent volume and load limits and requiring annual reporting of monitoring data. Lena Creek Hatchery. (Paradise Trading Corporation) Freshwater/Land-based Aquaculture Licence Under the Fisheries Act, Licence No. AQFW 112782 2015/2024, issued by DFO and expiring June 18, 2024.	Compliant			
	Applicability: All Smolt Producers		Permit PE8138 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.				
		•					
	Indicator: Compliance with labor laws and regulations	a. Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations.					
	Requirement: Yes Applicability: All Smolt Producers	b. Keep records of supplier inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation; see 1.1.3a)	Principle 6 of this audit report covers both Grieg hatcheries of Gold River and Lena Creek.	Compliant			

		Compliance Criteria (Required Client Actions):	Standards related to Principle 2 Auditor Evaluation (Required CAB Actions):		
		Note: If the smolt facility has previously undertaken an	independent assessment of biodiversity impact (e.g. as part of the regulatory permitting process), the farm may obtain and use such documents as evidence to demonstrate complian	ce with Indicator 8.3 as long as all component	s are covered.
	Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains the same components as the assessment for grow-out facilities under 2.4.1 Requirement: Yes	a. Obtain from the smolt supplier(s) a documented assessment of the smolt site's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I- 3.	The GRIEG hatcheries do not have a 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 and as outlined in Appendix H3.	The GRIEG hatcheries do r have a assessment of th farm's potential impacts biodversity and nearby ecosystems that contains t same components as th assessment for grow-ou facilities under 2.4.1 and, cutined in Appendix 1-3. T	e n he s
	Applicability: All Smolt Producers	b. Obtain from the smolt supplier(s) a declaration confirming they have developed and are implementing a plan to address potential impacts identified in the assessment.	grow-out nauntes under 2.4.1 and as outlined in Appendix FS.	o danse in Appendix -s.y. is classified as a minor find as it is not compliant to ti indicator, put is not sufficiently serious to warr a major finding, as it does threaten the integrity of ti standard.	ng e ant iot
		Farms must confirm that each of their smolt sup	Instruction to Clients for Indicator 8.4 - Calculating Total Phosphorus Released per Ton of Fish Produced spliers complies with the requirement of indicator 8.4. This specifies the maximum amount of phosphorus that a smolt production facility can release into the environment per metric t requirement is set at 4 kg/mt. The calculation of total phosphorus released is made using a "mass balance" approach. Detailed instructions and formulas are given in Appendix VIII- If applicable, farms may take account of any physical removals of phosphorus in the form of sludge provided there is evidence to show: - the smolt supplier has records showing the total quantity of sludge removed from site over the relevant time period; - the supplier determined phosphorus concentration (% P) in removed sludge by sampling and analyzing representative batches; and - the sludge was properly disposed off site and in accordance with the farm's biosolid management plan.		iod. The
8.4	Indicator: Maximum total amount of phosphorus released into the environment per metric ton (mt) of fish produced over a 12-month period (see Appendix VII-1) Requirement: 4 kg/t of fish produced over a 12-month period Applicability: All Smolt Producers	phosphorus added as feed during the last 12 months of smolt production. d. Obtain from smolt suppliers records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced (formula in	Grieg Gold River: Exempt from this indicator as the site discharges to the Marine environment. See VR's below. Grieg Lena Creek: Discharges almost to the sea as the discharge point is less than 40m from the Marine environment. Total Phosphorus released per weight of fish produced was QBSight fish production. VR nr.39 approved 15.09.2014 by ASC on phosphorus release from smolt producer. Rationale for use of VR 39 during audit is that as for accepted VR 39 the smolt producers effluent is seawater not freshwater VR nr.32 approved 23.9.15 by ASC on indicator 8.4. Rationale for use of VR 92 during audit is the smolt producers discharge effluent to seawater not freshwater. VR nr.32 approved 14.0.17 bu ASC on indicator 8.4. Rationale for use of VR 92 during audit is the smolt producers discharge effluent to seawater not freshwater.	Compliant	Lena Creek <4kg/t

		Compliance Criteria (Required Client Actions):	Standards related to Principle 3 Additor Evaluation (Required CAB Actions):	
8.5	Indicator: If a non-native species is being produced, the species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard Requirement: Yes [137] Applicability: All Smolt Producers except as noted in [137]	Compliance Criteria (Required Client Actions): a. Obtain written evidence showing whether the smolt supplier produces a non-native species or not. If not, then indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC salmon Standard. (See definition of area under 3.2.1 1. c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish. To: The smolt supplier cannot provide the rarm with evidence for 8.5b or 8.5c, provide documented evidence for 8.5b or 8.5c, provide documented evidence for 8.5b or 8.5c, provide documented fective physical barriers that are in place and well maintained; 2) harriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and the Retain evidence as described in 8.5a-9 necessary to show compliance of each facility supplying smolt to the farm.	Non-native Atlantic salmon are farmed. Evidence provided on the DFO website shows egg importations to British Columbia occurring first, from Scotland, in 1985. The hatcheries have drum filters, in tank filters and in trough filters for all the hatcheries involved.	
Footnote	[137] Exceptions shall be made for production systems t		rate 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 rep	roduce.
8.6	Indicator: Maximum number of escapees [138] in the most recent production cycle Requirement: 300 fish [139] Applicability: All Smolt Producers except as noted in [139]	records described in 8.6a must be maintained for at least 10 years beginning with the production cycle for which the farm is first applying for certification (necessary for farms to be eligible to apply for the distance of the second second second second second facility (i.e. an incident where > 300 fish escaped), the farm may request a rare exception the Standard [139]. Requests must provide ruli account of the episode and must document how the smolt producer could not have predicted the vents that caused the		100
Footnote		escape episode. [138] Farms sh	all report all escapes; the total aggregated number of escapees per production cycle must be less than 300 fish.	
Footnote			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 certifica isode. Extreme weather (e.g., 100-year storms) or accidents caused by farms located near high-traffic waterways are not intended to be covered under this exception.	tion. The farmer must demonstrate that
8.7	Indicator: Accuracy [140] of the counting technology or counting method used for calculating the number of fish Requirement: 298% Applicability: All Smolt Producers	 a. Obtain records showing the accuracy of the counting technology used by smoll suppliers. Records must include copies of spec sheets for counting machines and common estimates of error for hand- counts. B. Review records to verify that accuracy of the smolt supplier's counting technology or counting method is 2 98%. 	The Gold River and Lena Creek Hatchery uses the smolt count after vaccination and the counting machine used is a Vaki Counter (micro and macro) – used with the auto vaccinating machine and its accuracy is stated as >99%.	>98%
Footnote		[140] Accuracy shall	be determined by the spec sheet for counting machines and through common estimates of error for any hand counts. Standards related to Principle 4	
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	
8.8	Indicator: Evidence of a functioning policy for proper and responsible treatment of non- biological waste from production (e.g., disposal and recycling) Requirement: Yes Applicability: All Smolt Producers	a. From each smolt supplier obtain a policy which states the supplier's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the supplier's policy is consistent with best practice in the area of operation.	The policy for the Grieg hatchery's are the same as for the Marine sites.	
			Note: see instructions for Indicator 4.6.1.	
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8.9	Indicator: Presence of an energy-use assessment verifying the energy consumption at the smolt production facility (see Appendix V subsection 1 for guidance and required components of the records and assessment) Requirement: Yes, measured in kilojoule/mt fish/production cycle Applicability: All Smolt Producers	 a. Obtain records from the smolt supplier for energy consumption by source (fuel, electricity) at the supplier's facility throughout each year. b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year. c. Obtain records to show the smolt supplier calculated the total weight of fish in metric tons (mt) produced during the last year. d. Confirm that the smolt supplier used results from 8.9b and 8.9c to calculate energy consumption on the supplier's facility as required and that the units are reported as kilojoule/mt fish/production cycle. e. Obtain evidence to show that smolt supplier has undergone an energy use assessment in compliance with requirements of Appendix V-1. Can take the form of a declaration detailing a-e. 	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 2019. 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. Energy use is calculated and recorded monthly, annually and at the end of the production cycle. Gold River: Total energy consumption (k) 43,282,265 kj Lena Creek: Total energy consumption (k) 0 kj as the site produces its own electricity from water turbine. Gold River: Total kj/ton production 81,205kj Lena Creek: Total kj/ton production 0 kj as the site produces its own electricity from water turbine and is self sufficient.	Compliant		
			Note: see instructions for Indicator 4.6.2.			
8.10	Indicator: Records of greenhouse gas (GHG [141]) emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V, subsection 1) Requirement: Yes Applicability: All Smolt Producers	 a. Obtain records of greenhouse gas emissions from the smoll supplier's facility. b. Confirm that, on at least an annual basis, the smolt supplier calculates all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1 c. For GHG calculations, confirm that the smolt supplier selects the emission factors which are best suited to the supplier's operation. Confirm that the supplier documents the source of the emissions factors. d. For GHG calculations involving conversion of non- code gas to CO2 equivalents, confirm that the smolt suppliers specify the Global Warming Potential (GWP) used and its source. e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually. 	All Grieg scopes are evaluated the same as the Marine sites (See 4.6.2). GHG assessments are done monthly, and emissions factors and GWP are the same as used by marine farms. Grieg also report GHG's and CO2 as the hatchery has been audited in multiple ASC audits. For 2019 the results show Total CO2 for Gold River are 2,190,709 kg/CO2 equivalents. Total CO2 for Lena Creek are 0 kg/CO2 equivalents as the site produces its own electricity from water turbine.	Compliant		
Footnote	[141] For the purp	oses of this standard, GHGs are defined as the six gases	listed in the Kyoto Protocol: carbon dioxide (CO ₃); methane (CH ₄); nitrous oxide (N2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF ₆).			
Footnote		[142] GHG	Gemissions must be recorded using recognized methods, standards and records as outlined in Appendix V. Standards related to Principle 5			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
8.11	Indicator: Evidence of a fish health management plan, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites Requirement: Yes Applicability: All Smolt Producers	 a. Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish disease and parasites. b. Keep documentary evidence to show that the supplier's health plans were approved by the supplier's designated veterinarian. 	The company does have various SOP's on managing its Freshwater hatcheries. This includes compliance and oversight on freshwater diseases. The companies Fish health management team covers the fish health at its hatcheries. There is no fresh water fish health management plan for the Grieg Hatcheries.	Minor	There is no fresh water fish health management plan for the Grieg Hatcheries. This is classified as a minor finding as it is not compilant to the indicator, but is not sufficiently serious to warrant a major finding, as it does not threaten the integrity of the standard.	r is is it
8.12	Indicator: Percentage of fish that are vaccinated for selected diseases that are known to present a significant risk in the region and for which an effective vaccine exists [143] Requirement: 100% Applicability: All Smolt Producers	Maintain a list or diseases that are known to present a significant risk in the region, developed by farm veterinarian and supported by scientific understand and supported by scientific with the second second second second second second second by Alantain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence. c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received. d. Demonstrate, using the lists from 8.12-c. above, that all salmon on the farm received vaccination against all selected diseases known to present a significant risk in the regions for which an effective vaccine exists.	Fish are vaccinated according to site requirements. List of important diseases are referenced on the DFO website. All smolts are vaccinated in all hatcheries. Vaccines are Alphaject Micro 4, Alphaject 5-3, Apex-IHN, Ermogen-Dip and Vibrogen dip, Rennogen and Furogen-Dip.	Compliant		100%
Footnote	[143] The farm's designated veterinarian is responsible for undertal	ung and providing written documentation of the analysis	s of the diseases that pose a risk in the region and the vaccines that are effective. The veterinarian shall determine which vaccinations to use and demonstrate to the auditor that this de	cision is consister	nt with the analysis.	

8.13	Indicator: Percentage of smolt groups [144] tested for select diseases of regional concern prior to entering the grow-out phase on farm	Instruction to Clients for Indicator 8.13 Testing of Smott for Select Diseases The farm is responsible for developing and maintaining a list of diseases of regional concern for which each smolt group should be tested. The list of diseases shall include diseases that originate in freshwater and are proven or suspected to occur in seawater (and for which seawater fish-to-fi transmission is a concern). The designated veterinarian to the smolt supplier is required to evaluate, based on scientific criteria and publicly available information, which diseases should be tested for. This analysis shall include an evaluation of whether clinical disease or a pathogen carrier state in fresh water is deemed have a negative impact on the grow-out phase, thereby disqualifying a smolt group from being transferred. The analysis must be available to the CAB upon request. Note: A "smolt group" is defined as a population that shares disease risk, including environment, husbandry, and host factors that might contribute to sharing disease agents for each group.						
		 a. Obtain from the smolt supplier a list of diseases of regional concern for which smolt should be tested. List shall be supported by scientific analysis as described in the instruction above. b. Obtain from the smolt supplier(s) a declaration and records confirming that each smolt group received by the farm has been tested for the diseases in the list (8.13a). 	The diseases for which fish must be tested prior to movement 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) test the fish prior to transfer.	Compliant		1009		
Footnote			ng disease agents for each group. Only diseases that are proven, or suspected, as occurring in seawater (and for which seawater fish-to-fish transmission is a concern) but originating in should be tested for. This analysis shall include an evaluation of whether clinical disease or a pathogen carrier state in fresh water is deemed to have a negative impact on the grow-ou transferred. A written analysis must be available to the certifier on demand.					
8.14		a. Optam from the smoot supplier(y) a declareterector of all chenical and therapeutanic use for the fish sold to the farm that is signed by their veterinarian and includes: - name of the veterinarian prescribing treatment; - product name and chemical name; - reason for use (specific disease) - date(s) of treatment; - amount (g) of product used; - dosage; - mt of fish treated; - the WHO classification of antibiotics (also see note under 5.28); and the careful or the chemical or these the	All Grieg treatments are done following Veterinarian guidance and using a prescription, if such a treatment is required. There have been no medicinal treatments. Any treatments from the hatchery is recorded and used to generate the product CV.	Compliant				
8.15	Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [145] in any of the primary salmon producing or importing countries [146] Requirement: Yes Applicability: All Smolt Producers	a Provide to the small supplier the list (see 5.2.2.a) or therapeutants, including antibiotics and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing rountrice listed in 1.1.61. b. Inform smolt supplier that the treatments on the list cannot be used on fish sold to a farm with ASC certification. c. Compare therapeutant records from smolt supplier (8.14) to the list (8.15a) and confirm that no therapeutants appearing on the list (8.15a) were used	The hatcheries follow the CFIA Therapeutants Monitoring List (http://www.inspection.gc.ca/food/fish-and-seafood/manuals/standards-and- methods/eng/1348608971859/1348609209602?chap=7#s17c7). No antibiotic treatments have been used in any of the hatcheries.	Compliant				
		on the smolt purchased by the farm.						
Footnote			nmed" means proactively prohibited by a government entity because of concerns around the substance. oses of this standard, those countries are Norway, the UK, Canada, Chile, the United States, Japan and France.					
8.16	Requirement: ≤ 3	 a. Obtain from the smolt supplier records of all treatments of antibiotics (see 8.14a). b. Calculate the total number of treatments of antibiotics from their most recent production cycle. 	No antibiotic treatments used.	Compliant		0		
8.17	Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the WHO [147] Requirement: None [148] Applicability: All Smolt Producers	b. Inform smoll supplier that the antibiotics on the WHO list (8.17a) cannot be used on fish sold to a farm with ASC certification. c. Compare smoll supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotics listed as critically		Compliant		0		
		important for human medicine by the WHO were						
Footnote		[147] The 3rd edition of the WHO list of critica	ly and highly important antimicrobials was released in 2009 and is available at: http://www.who.int/foodborne_disease/resistance/CIA_3.pdf.					
Footnote Footnote		[147] The 3rd edition of the WHO list of critica	ly and highly important antimicrobials was released in 2009 and is available at: http://www.who.int/foodborne_disease/resistance/CIA_3.pdf. applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment are still eligible for certification.					

8.18 Footnote Footnote	Indicator: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150] Requirement: Yes Applicability: All Smolt Producers [149] Compliance is defined as farm practices consistent with the intentions of the Code, t	proceedures that ensure that its smole production practices are compliant with the OIE Aquatic Animal Health Fords C. Obtain a declaration from the supplier stating their intent to comply with the OIE code and copies of the smolt suppliers policies and procedures that are relevant to demonstrate compliance with the OIE Aniuatic Animal Health Code to be further outlined in auditing guidance. For purposes for the specific pathog	The hatcheries are a part of Grieg Canada. The OIE Aquatic Animal Health Code is available online in DATS for Grieg. Relevant staff know how to locate it. Its the fish health Team that are the most relevant and the head was interviewed during the audit. of this standard, this includes an aggressive response to detection of an exotic OIE-notifiable disease on the farm, which includes depopulating the infected site and implementation o en. Exotic signifies not previously found in the area or had been fully eradicated (area declared free of the pathogen). [150] OIE 2011. Aquatic Animal Health Code. http://www.oie.int/index.php?id=171. <i>Standards related to Principle 6</i> Auditor Evaluation (Required CAB Actions):	Compliant f quarantine zone	s in accordance with guidelines from OIE
8.19	Indicator: Evidence of company-level policies and procedures in line with the labor standards under 6.1 to 6.11 Requirement: Yes Applicability: All Smolt Producers	policies and procedures and a declaration of compliance with the labor standards under 6.1 to	See principle 6. Grieg owns the hatchery Gold River and are the only customer of Lena Creek and the same conditions on the marine sites are applied to the hatcheries.	Compliant	
		Compliance Criteria (Required Client Actions):	Standards related to Principle 7 Auditor Evaluation (Required CAB Actions):		
8.20	Indicator: Evidence of regular consultation and engagement with community representatives and organizations Requirement: Yes	Farms must comply with Indicator 7.1.1 which requir	Instruction to Clients for Indicator 8.20 - Consultation and Engagement with Community Representatives es that farms engage in regular consultation and engagement with community representatives and organizations. Under Indicator 8.20, farms must show how each of their smolt supple to maintain evidence that is sufficient to show their suppliers remain in full compliance. Evidence shall be documentary (e.g. meeting agenda, minutes, report) and will substantiate t - the smolt supplier's consultations were effective (e.g. using participatory Social Impact Assessment (pSIA) or similar methods); and - the supplier's consultations included participation by elected representatives from the local community who were asked to contribute to the agenda.		h an equivalent requirement. Farms are
	Applicability: All Smolt Producers		Grieg has a field office in Gold River (currently closed due to COVID). Grieg has a strong presence in the Gold River community by making contributions in donations or other sponsorships of activities or events in the area. Grieg is also a member of the Nootka Sound Watershed Society.	Compliant	
8.21	Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All Smolt Producers	a. Obtain a copy of the smolt supplier's policy for presentation, treatment and resolution of complaints by community stakeholders and organizations.	See Section 7—Complaints policy/ no complaints to date.	Compliant	
8.22	Requirement: Yes Applicability: All Smolt Producers	Indicator 7.2.1). If not then the requirements of 8.22	Gold River Hatchery is operating in Mowachaht Muchalaht 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. Recent Applications to DFO and MoE have been shared with the Nation.	Compliant	
8.23	Indicator: Where relevant, evidence that the farm has undertaken proactive consultation with indigenous communities Requirement: Yes Applicability: All Smolt Producers	 a. See results of 8.22a (above) to determine whether the requirements of 8.23 apply to the smolt supplier. b. Where relevant, obtain documentary evidence that smolt suppliers undertake proactive consultations with indigenous communities. 	By holding federal aquaculture licenses for its facilities, it demonstrates that the hatcheries have satisfied its duty to consult with indigenous communities.	Compliant	
			IDDITIONAL REQUIREMENTS FOR OPEN (NET-PEN) PRODUCTION OF SMOLT		
	Indicator: Allowance for stocking smolts produced in cage-culture Requirement: Permitted only if supplying farms are 1) operated in a region where indigenous salmonids are present of the same species being cultivated and 2) the farm is certified to th	suppliers operates in a region where indigenous salmonids are present of the same species being cultivated.	s above, if the smolt is produced in an open system, evidence shall be provided that the following are met: Not a net pen system.	N/A	Not a net pen system.

	Ac		IONAL REQUIREMENTS FOR SEMI-CLOSED AND CLOSED PRODUCTION OF SMOLTS sed system (flow through or recirculation) that discharges into freshwater, evidence shall be provided that the following are met [157]:		
	Indicator: Water quality monitoring matrix completed and submitted to ASC (see		Water quality matrix has been supplied by all hatcheries. DO, pH and P details from Lena. Gold River is NA as the facility discharges to the marine environment		
8.25	Appendix VIII-2) Requirement: Yes [155]	b. Obtain water quality monitoring matrix from smolt suppliers and review for completeness.	Reviewed and complete.	Compliant	
	Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	c. Submit the smolt supplier's water quality monitoring matrix to ASC as per Appendix VIII-2 and Appendix VI at least once per year.	Have been submitted to ASC except for the Gold River hatchery as the facility discharges to the marine environment.		
Footnote			[155] See Appendix VI for transparency requirements for 8.25.		
	Indicator: Minimum oxygen saturation in the outflow (methodology in Appendix VIII-2)	a. Obtain the water quality monitoring matrix from each smolt supplier (see 8.32b). b. Review the results (8.33a) for percentage dissolved	Results have been supplied to the auditor.		
8.26	Requirement: 60% [156,157]		All results show that the levels for all hatcheries are above 60%.	Compliant	
	Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	c. If a single DO reading (as reported in 8.33a) fell	All were above 60%		
Footnote	l.	[156] A single oxygen reading below 60 percent would re-	quire daily continuous monitoring with an electronic probe and recorder for at least a week demonstrating a minimum 60 percent saturation at all times.		
Footnote			[157] See Appendix VI for transparency requirements for 8.33.		
8.27	Indicator: Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic health that is similar or better than surveys upstream from the discharge (methodology in Appendix VIII-3) Requirement: Yes Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	the surveys followed the prescribed methodology	Gold River discharges to the sea and therefore this indictor does not apply. The Lena Creek hatchery has only 40m between the steam discharge and the Marine environment. It also takes water from a lake and not a river. The benthic report dated June 2020 shows that there are more species of invertebrate downstream than upstream.	Compliant	
8.28	Indicator: Evidence of implementation of biosolids (sludge) Best Management Practices (BMPs) (Appendix VIII-4) Requirement: Yes Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	a. Maintain a copy of smolt supplier's biosolids (Sludge) management plan and confirm that the plan addresses all requirements in Appendix VIII-2. b. Obtain from smolt suppliers a process flow diagram (detailed in Appendix VIII-2) showing how the farm is dealing with biosolids responsibly.	Gold river has provided Sludge receipts Invoice number 40453 dated Dec 17th 2020. The hatchery called Lena Creek does not have a documented biosolids (sludge) Best Management Practices (BMPs) plan.	Minor	The hatchery called Lena Creek does not have a documented biosolids (sludge) Best Management Practures (BMPS) pian. This is classified as a minor finding as it is not compiliant to the indicator, but is not sufficiently serious to warrant a major finding, as it does not threaten the integrity of the standard.
		d. Obtain records from smolt suppliers showing monitoring of biosolid (sludge) cleaning maintenance, and disposal as described in Appendix VIII-2.			

- Findings

 11.1
 FORLETE ANY COLUMN

 11.2
 ically populated from the species checklist/audit manual

 11.3
 istandard indicator or a CAR requirement

 11.4
 it to your liking (e.g. grading, status, coloure deadline, etc.)

Currently there is no IPM posted on the companies website

The GRIEG hatcheries do not have a assessment of the farm's potential

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

NC						Date of detection					Deadline for NC close-out		Actual date of close- out
	1	2.2.3	Minor	classified as having "good" or "very good" water quality.	The company has commissioned a report into the water quality in the Eigenerus farm sites area dated November 25th 2019 and carried out by Strategic Network Company. The provides historical sampling and site ampling over a 6 month period. The corollation draws from the report states Water quality monitoring at the Eigenerus, Netzet and Steamer farms, in Eigenerus and eight month period from May. Determine 2018, downed that all reports and indicated adjustment of networks and the state of the state of the state and states and the state of the s	1/29/2021	Closed	NA	Grieg Seatood was not aware of the ongoing monitoring requirement under 2.2.3	Manstrama Biological Consulting has been relatived to complete a water sampling program concurrent with the Wild Juenelie Salmon Sea Lice Monitoring Program. They will program a project at the completion of the program to meet the requirements of 2.3.3. The spectra share values to the wild monitoring organized additional data for can be such as heat hits are typically not institute monitoria to all the such as heat hits are typically not institute monitoria to date the low levels expected and may not allow for meaningful discussion of the results.	29/04/2021 or by agreed plan	Grieg Marine Water Quality Work Plan Reviewed exidence by Lead Auditor and plan accepted. PC 22/4/21	22/4/21
	2	2.5.2	Minor	not identify down to species level. This could impact on the cross referencing the list of endangered or red-listed marine mammals and birds in the area.	There are no productor control devices on site. The facts table developed well and the site has a wall be interactionic plan and they togget of memoration. Exclusion developed has a site of the fact actions. And exclusion developed has not and an an available of the provers tables and seal find antacks. There have been one relationed animal or bein relation and the site of an advance of the memoration. Exclusion and the attracks. There have been one relationed and or bein relations are the and the site of the site has been been been site. It is checked for updates annually. There have been no brief or animal mortalities in the para 2 years. In the event we been no brief or animal mortalities in the para 2 years.	1/29/2021	Closed	NA	Gring Senfood was not aware of the requirement to identify down to the species level.	All bird mortabiles are reported in DATS. During the next Management System update (April 2021) the report will be updated to 1. Revie the drog down tab that lists the common name of the trins to include the scatter names; 2.4.4.4 and listerification Guide into the report; 3.4.46 links to the Duck and Guil Identification paides into the opport. A most up of the changes have been developed in DATS for final review before implementation.	29/04/2021 or by agreed plan	DATS Example Bird Mortality Report; Duck and Adult Gull Identification Sheets Reviewed endonce by Lead Auditor and accepted. PC 22/4/21	22/4/21
	3	2.5.6		The DATS reporting system, for bird and Marine Mammal lethal incidents, does not show details of concrete steps taken by the farm, that reduces the risk of future incidences.		1/29/2021	Closed	NA	Greg has shready identified bird mortally investigations as an area for improvement and is currently implementing a revision to bur incident Reporting and Investigation Standard. As our Management systems aces of velocideg and implemented to very area p. In is still undergoing revisions as secontinually work to improve the system. In addition the Certification and Regulatory team of the velocated training in incident investigations to adequately support the Sis Managers to complete the investigations.	The Certification and Regulatory Team participated in an Environmental Investigation workshop in Doubler 2010. The incident Reporting and Investigation Standard is expected to be implemented in 22 2021 and ill include an update in the DSTS report to better participation of the SM Association and the SM Association of the DST and the standard states of the SM Association of the SM Association of the Causes and connective actions for likely deficiences that may result in a bird mortality.	29/04/2021 or by agreed plan	STND-Investigating and Reporting of Hazards and Unwanted Events: Environmental Investigation Workshop Stides; DATS Investigation Guide for Bird Montalities Reviewed evidence by Lead Auditor and accepted. PC 22/4/21	22/4/21
	4	3.1.7	Minor		Vm nr.41 approved 20.116 by AGC on indicator 3.1.7 Related for use of VR 141 during sudit is that the DFO requirements for Lize levels on famme alamonia scale or approximate the second scale of the second scale particular in the region is set from March 1x to June 30th. Results down that for the course on June 2000 ADD with a court way just own target related 13.1.9 Novements the settle relation down that for the course on June 2000 ADD with a court way just own target related 13.1.9 Novements the settle relation to a lower the three sensitive period was well below 3 motifs lice. A SLCE treatment was began, for all pans, on the 11th June 2020. The form was own the trigger level of 3 motile lice, on one occasion, during the sensitive period.	2/16/2021	Closed	NA		continue operating on the BC cast. Gring, Cerma Canada Ltd. and Movie canada West. are collaborating to develop a Memorandum of Understanding regrading the Integrative Pets Management (PM) of sets Rc. The Implementation of this MOU, which details the collaboration of methanical and medical resources amongst the comparies, and the addition of a mechanical torong the control of the comparies, and the addition of a mechanical torong the holder to a row Nov 2021, will only strengthen west equipped with a Samik System checkles to arise Nov 2021, will only strengthen		Expersion Area Sea Lice Model; ECXA Andexby YM MOU Trinky. New Grag Mechanica Minimum Yusai Sea Reviewed evidence by Lead Auditor and plan accepted. PC 27/4/21	22/4/21
	5	3.4.4	Minor	In reference to the "Preparedness & Response Training" presentation dated 30/10/2019. There is no reference to fish escape drills in this presentation.	The application has a varies of areas that are housed on a part of the overall imangement of encape prevention. This includes mergeneous programatices and encourse raising. SOP on this house, SOP on which and array impectional, SOP on the timalitational, training on majoriton and monotonia. The applicant data removes all infrastructure from the site and re-essit i prot to the encage generation. This means that any equipment that appears of or fully vill be removed all infrastructure from the site and re-essit i prot to the encage generation. This means that any equipment that appears of or fully vill be removed and order or register. There is not to 100 as requires that applicant that AdVA Oble impective the provide and which the site and re-essit is prot to the encage prevention. This means that any equipment that appears the site of the site of the encape and the site and the applicant that AdVA Oble impective the provide the provide the site of the site and the site and the site of the site and the site of the site of the site and the site of the s	1/29/2021	Closed	NA	Again, as our Management System was only developed and implemented two years ago, it is still undergoing revisions as we continually work to improve the system. Improvements to conducting drills with defined scenario's has been identified as a priority update in DATS and the	Isunami, Hre/ Evacuation, Hsn escape). We will be developing a detailed internal project		DATS Review regarding Drill; Updated EPRP Escape Prevention Sold Reviewed endence by Lead Auditor and plan accepted. PC 22/4/21	22/4/21
	6	5.2.4	Minor	Within the prescription template for Florferical, there is a sentence that states 'withdrawal recommendation may vary by destination country'. Its not clear how this' other possible withdrawal period' can be captured within the FishTalk system.		1/29/2021	Closed	NA	The template used for prescriptions was developed by the previous veterinarian and the components of the template have remained unchanged under the new veterinarian.	The template has been revised to remove the comment regarding the withdrawal recommendations by country.	29/04/2021 or by agreed plan	Slice script template Reviewed evidence by Lead Auditor and accepted. PC 22/4/21	22/4/21
	7	5.2.6	Minor	As the Global entry level is 3 and the site has declared a Weighted Number of Medicinal Treatments of 4, the site exceeds the Global entry level set by the standard.	Inom AC interpretation (9-497, Jamms in British Calombia - as the set BL (b. 1 VMM) at balance the set GL (b. 1 VMM). There is BL are required the mets CL. The parantic treatments are 1 s 43.EC d at 3 1 value (D. The stark is about to best again with N2C2 to comply with the DPD requirement of having like numbers low prior to the outingstop period. The company is regregated by DPD is sing set that low-levels of Lice are manificated opecality prior to the outward migration period which runs from the beginness of d and: that the output of the lice are maintained opecality prior to the outward migration period which runs from the beginness of d and: that the lice of James The is a 4 month period. The licence starts Turing the Free migration Window, the Licence Holder matter. B) within 4 hours Upon Thicovery of threshold 5.2 (3 month lice) bang accredid, notify the Department using Appendix VI48, and decricite the measures that will be taken for sums that the calc low balance between therhold by the tart rule of boundingstrom Window; To this end in lateging with directions from the company Veterinarian on maintaing animal weiflers, the company use IXO2 to the start object and the levels in the calculated migrating particu- tion that low balance to accurate that the calculated the threshold by the start the levels in the company use IXO2 to the start object and the levels in the company use IXO2 to themetics to any total total lice levels at the calculated transmitted results prior the levels in the calculated migrating particu- tion that low balance to the start other and the calculated transmitted to the start start of the levels in the calculated migrating particu- tion that low balance to the start and the related to the attransmitted to the migration the levels in the calculated migrating particu- tion that low balance to the start and the relation the calculated migrating particu- tion that low balance the low balance to that attransmitted to the migration the levels in the calculated migrating particu-	1/29/2021	Closed	NA	hydrogen peroxide baths which are both medicinal. We have set an internal treatment threshold of an average of 1.5 motile leps at a site which increases the number of treatments required. We did collaborate with Cermaq to use their hydrolicer, when it was available, in the region and was successful at completing one round of mechanical treatments.	medicinal resources amongst the companies, and the addition of a mechanical treatment		BCFA Industry PM MOU Final; New Grieg Mechanical Treatment Vissal Spect Reviewed evidence by Lead Auditor and plan accepted. PC 22/4/21	22/4/21

NA

The non-conformity was immediately science/deged by the Certification Manager during the AGK adult, As a member company of the ECSIAnno Fammer Acaccition, Grieg Seaford II, waiting for the completion of the BCSFA PPM MoU and will post immediately after all parties agreed pain the document. The base management is released.

Both hatcheries, Gold River and Lena Creek (contract facility) have Biodiversity impact Assessments which document interactions with wildlife, including impacts to bioman species at A hatcheries and a set of presented according to depend in 1 and are not reviewed on a consister basis. The species at raik are op presented according to depend in 1 and a biological Accessment is currently being completed for the Gold Num are not reviewed on a consister basis.

1/29/2021 Closed NA

1/29/2021

Closed

(b) within 48 hours Upon Discovery of InterAold 6.2 (3 motile lice) being exceeded, notify the Department using Appendix VH8, and describe the measures that will be talen to ensure that the case lice levels are below the InterAold by the start of the Oth-ingration Window; To this end soft livesgin with directions (in the Company InterInstitution on multitaing share) wildras, the Company user SVO2D Institutes to incurred lice levels at this time. The state is just about to start another H302 Institutent to comply with lice levels in the ushared ingrating period. At the Global entry-level is 1 and the site has declared a Weinhed Number of Medicinal Treatments of 4, the site exceeds the Global entry-level is The company is in the process of darling an PM along with the other salmon producing farms in the Vancouver bland area. There are alon many factor of thest management within the companies management system. This includes a sea lice management plan darling from September 2019. Currently there is no PM posted on the companies website.

Impacts on biodiversity and nearby ecosystems that contains the same components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for grow out facilities under 2.4.1 and as components as the assessment for

8 5.2.9 Minor

9 8.3 Minor 22/4/21

22/4/21

BCSFA Industry IPM MOU Final; E-mail from BCSFA re IPM MOU Reviewed evidence by Lead Auditor and plan accepted. PC

10	8.11	Minor	There is no fresh water flish health management plan for the Grieg Hatcheries.	The company does have various 300°s on managing its Freshwater hatcheries. This includes compliance and oversight on freshwater diseases. The companies Hah hash management team covers the fait hashift it is hatcheries. There is no fresh water fait hashift management plan for the Gring statcheries.	1/29/2021	Closed	NA	There is not a current legal requirement for a freshwater health management plan. Current Freshwater / Land - based commercial licences expire in 2024. All licences issued in 2024 will require Facility Management Plans (FMP) & Health Management Plans (HMP).	Lena Creek does in fact have a IMM that is signed by the vet, however, it was not produced down the two dut, it was reviewed out or signed by the vet. They are corrently produced down the two dut, it was reviewed by the vet. They are corrently produced down they are correctly and the two duties are an experimented of the DPG Lence agreed plan an amendment application is regarder to be solution. As a requirement of the DPG Lence agreed plan an amendment application is regarder to be solution. With the application an IMM must be submitted to meet the requirement for licence renewal in 2024. It has been diveloped and signed by the vet.	Grieg - HMP AGPW-Land (March 2021); PT (Lena Creek) FHMP 2018 Reviewed widence by Lead Auditor and plan accepted. PC 22/4/21	22/4/21
11	8.29	Minor		Gold river has provided Sludge receipts invoice number 40433 dated Dec 17th 2020. The Gring hatchery called Lena Creek does not have a documented buoxilio (Judge) Best Management Practices (BMPs) plan.	1/29/2021	Closed	NA	The Lena Creek hatchery is a contract hatchery raising smok for Grieg's sea water production. The operational activities of sludge management have been documented in Maniatream Biological Contuiling's Biologienty linear. Lassesmod, added December 2020, however, the operational activities have not been consolidated into a comprehensive SOP.	A Sludge Management SOP has been drafted that details the current sludge management practices. It is under final Review by the Hatchery Manager.	SOP X.X - Biosolids Management Plan DRAFT Reviewed evidence by Lead Auditor and plan accepted. PC 22/4/21	22/4/21





ASC Audit Report - Traceablity

10	Traceability Factor	Description of risk factor if present.	Describe any traceability, segregation, or other systems in place to manage the risk.
	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, produced within the same operation.	There is low risk of substitution as all the fish pens on site are within the unit of certification. All the Grieg production sites are aiming for ASC certification which will reduce the risk further.	Automated tracking system enables tracking of product, both forward and back, of all fish, including: hatchery sources, through to grow-out sites, harvesting, transportation, processing and distribution. THis is done using docuemnts such as Fish CV giveing the full history of the fish being grown by yearclass, site and batch. The company also has BAP group certification for all its sites. The processing facility is certified to ASC Chain of Custody (ASC-C-01170, Brown's Bay Packing Co. Ltd) and Best Aquaculture Practices. Both standards require effective traceability and input-output reconciliation (mass balance), and these elements are verified during third-party audits. Griegs sales company also has ASC certification (ASC- C-02787 Grieg Seafood Sales North America Inc).
	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, present during production, harvest, transport, storage, or processing activities.	Risk includes only substitution or mis labelling at the processing plant. Very low risk overall.	Grieg harvesting, transport and storage activities preclude the risk of substitution. The pen or pens harvested on a given day are identified in advance and on all paperwork associated with the harvest, transport and reception of fish at contracted processing facility. Fish from different pens are held in separate holds on well boats. At processing facility, incoming lots are assigned a lot number which remains with the lot throughout processing, packing and distribution, and by which products can be traced forward as well as back to farm and cage. The processing facility has only one lot of fish in production at a time and completely runs through a lot before another lot enters production.
	The possibility of subcontractors being used to handle, transport, store, or process certified products.	The harvesting vessel, the transport trailers and the processing facility are subcontracted. The processing plant only processes a company on a daily basis so a Grieg harvest will be on a set day with no other processing taking place. The transport company has described how mixing is not possible as the tank trailers have to be filled with water for safety and the off take is only located at the processing plant.	Following the harvesting of the fish documents are given to the harvest boat that detail the fish harvested including the treatment history for the fish, the site the fish are from and the pen they were harvested from.





- 10.4 Any other opportunities where certified product could potentially be mixed,

 substituted, or mislabelled with non-certified product before the point where product

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

Number of sites included in the unit of certification

- 10.4.b Site(s) within UoC that has product to be excluded from entering the chain of custody
- 10.5 Detail description of the flow of certified product within the operation and the associated traceability system which allows product to be traced from final sale back to the unit of certification

Owned by client	Subcontracted by client
1	
	0
1	
	0
Site name(s)	Reason(s)
None	
	None
Fish are seined and pumped aboard a vessel contracted to Grieg. Harv	rest is carried out by stun and bleed and the fish are stored in the harvest boat in

Fish are seined and pumped aboard a vessel contracted to Grieg. Harvest is carried out by stun and bleed and the fish are stored in the harvest boat in refridgerated Seawater tanks. The harvest boats land nearby and the fish are transferred into Tank trailers that require full filling to prevent dangerous weight shifting. Using these tank trailers, the fish are transported to contracted processing plant, Brown's Bay Packing Co. Ltd. Activities are controlled by Grieg, and fish can be traced with the use of electronic systems from hatchery to farm to processing and distribution.





10.6 Traceablity Determination:	
10.6.1 The traceability and segregation systems in the operation are sufficient to ensure all products identified and sold as certified by the operation originate from the unit of	Yes
10.6.2 The traceability and segregation systems are not sufficient and a separate chain of custody certification is required for the operation before products can be sold as ASC-certified or can be eligible to carry the ASC logo.	
10.6.3 The point from which chain of custody is required to begin	Chain of custody begins at the contracted processing plant, Brown's Bay Packing Co. Ltd. This is where the company and site looses direct control of the fish.
10.6.4 If a sepearate chain of custody certificate is required for the unit of certification	No





ASC Audit Report - Closing

12 Evaluation Results

- 12.1 A report of the results of the audit of the operation against the specific elements in the standard and guidance documents
- not the audited unit of consistently meet the objectives which can be addressed. of the relevant standard(s)
- 123 In cases where BEIA or PSIA is NA available, it shall be added in full to the audit report. IF these documents are not in English, then a synopsis in English shall be added to the report.

13 Decision

- 13.1 Has a certificate been issue (yes/no)
- 13.2 The Eligiblity Date (if applic
- 13.3 Is a separate CoC certificte required for the producer? (yes/no)

d?	Yes
able)	n/a
	No. Not for the unit of certification.

The audit was carried out remotely, using TEAMS, supplied documents, photographs, video clips and realtime video and interview. The audit was carried out to a level to where the audit team was happy to proceed and sign off the audit with its indicators all complete.

12.2 A clear statement on whether or Grieg Seafood BC - Esperanza site has the capability to consistently meet the objectives of the ASC Salmon Standard is expected for the future. certification has the capability to The unit of certification has a limited numbers of Minor NCs at this audit, all of





13.4 If a certificate has been issued this section shall include:

13.4.1 The date of issue and date of expiry of the certificate.	Date of issue: 10-05-2021, Date of expiry: 09-05-2024
13.4.2 The scope of the certificate	Production of Atlantic salmon (Salmo salar) from smolt to harvest size on the site called Esperanza
13.4.3 Instructions to stakeholders that	All complaints and/or objections should be submitted in writing to
any complaints or objections to the CAB decision are to be subject to the CAB's complaints procedure. This section shall include information on where to review the procedure and where further information on complaints can be found.	asc.reports@sgs.com. The related procedures can be found at www.sgs.com.

14 Surveillence

