



## New Zealand King Salmon 2020-2021 – Compliance Report for Coastal Permit (U040217) Otanerau Bay Marine Farm

### Assessment of compliance with consent U040217

This report sets out the compliance status for the Otanerau Bay Marine Farm Coastal Permit – discharge to water. The information in this report is based on the 2020 Annual Monitoring of Low-Flow Salmon Farm Sites in the Marlborough Sounds. Report provided by SLR Consulting NZ Limited.

Compliance Status has been indicated using a monitoring traffic light system where **green** indicates compliance; **yellow** indicates technical non-compliance; **orange** indicates that a breach of effects or best practice consent conditions has occurred with minor actual or potential adverse environmental effects, and **red** indicates significant non-compliance where a persistent or significant breach has occurred causing adverse environmental effects.

Compliance Status: **Compliant**

Report prepared by: Ally Perkins **Environmental Protection Officer**

Date: 14/02/2022

Please note that the following consent conditions are representative only, they do not include the complete list of conditions of consent.

Condition			Comment	Compliance Status															
<p><b>7.</b> Following receipt by council of the reports required in Stage 2 above and subject to any review of the conditions of this consent, pursuant to condition 24 of this consent the consent holder may then discharge the maximum volume permitted under the consent of 4000 metric tonnes per annum.</p>			<p>Between December 2019 and November 2020 ~1654 tonnes of feed were discharged, which is more than the previous nine years, and a particularly sharp increase compared to 2019. However, this is still within the condition parameter (4000 MT/annum).</p> <p>In November 2020, monthly feed discharge was very low (~25 tonnes). No information was provided on feed discharge in December 2020; however, it can be assumed that it was low at the time of monitoring.</p>																
<p><b>16.</b> The EQS in each zone is as follows:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Zone</th> <th>Spatial Extent</th> <th>Description and Bottom Line</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Beneath the cages and out to 50 m from their outside edge</td> <td>Sediments become highly impacted and contain low species diversity, dominated by opportunistic taxa (e.g. polychaetes, nematodes). It is expected that a gradient will exist within this zone, with higher impacts present directly beneath the cages.</td> </tr> <tr> <td style="text-align: center;">2</td> <td>From 50 m to 150 m from the outside edge of the cages</td> <td>A transitional zone between zones 2 and 4. Within this zone, some enrichment and enhancement of opportunistic species may occur, however species diversity remains high with no displacement of functional groups. It is expected that a gradient will also exist within this zone.</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Beyond 150 m from the outside edge of the cages</td> <td>Normal conditions (i.e. background or control conditions).</td> </tr> <tr> <td style="text-align: center;">All Zones</td> <td>These conditions are not permitted beneath any NZKS farm</td> <td>Sediments that are anoxic and azoic (i.e. no life present) will not be permitted.</td> </tr> </tbody> </table>			Zone	Spatial Extent	Description and Bottom Line	1	Beneath the cages and out to 50 m from their outside edge	Sediments become highly impacted and contain low species diversity, dominated by opportunistic taxa (e.g. polychaetes, nematodes). It is expected that a gradient will exist within this zone, with higher impacts present directly beneath the cages.	2	From 50 m to 150 m from the outside edge of the cages	A transitional zone between zones 2 and 4. Within this zone, some enrichment and enhancement of opportunistic species may occur, however species diversity remains high with no displacement of functional groups. It is expected that a gradient will also exist within this zone.	3	Beyond 150 m from the outside edge of the cages	Normal conditions (i.e. background or control conditions).	All Zones	These conditions are not permitted beneath any NZKS farm	Sediments that are anoxic and azoic (i.e. no life present) will not be permitted.	<p>Zone 1: evidence suggests sediment more impacted compared to other sampling stations; sediments contained a range of benthic fauna and macrofauna dominated by opportunistic taxa; obvious trend of decreasing impact in the sediment physico-chemical parameters and community composition in Zone 1 with distance from pens.</p> <p>Zone 2: concentration of TFS generally comparable between zone 1 and 2; polychaetes numerically dominant, which are tolerant to moderate levels of enrichment; species diversity higher than</p>	
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	<p>in Zone 1; no evidence to suggest displacement of functional groups.</p> <p>Zone 3: physico-chemical and univariate parameters generally comparable to control sampling stations.</p> <p>Overall, the 2020 monitoring results demonstrate compliance with the EQS.</p>	
<p><b>20. Ongoing Annual Monitoring</b></p> <p>A monitoring report is to be prepared at least annually, and will include:</p> <p>a. a description of the types, location and area of structures within the 2 hectare authorised area and a description of any movement or relocation of structures over the previous year;</p> <p>b. presentation of monitoring results;</p> <p>c. a comprehensive and integrated report on the effects of the development and operation of the farm to date, including maximum biomass of fish and feed volumes discharged over that year;</p> <p>d. an assessment as to whether or not the farm is having a significant adverse effect on the environment or not;</p> <p>e. recommendations as to how any adverse effects on the environment can be avoided, remedied or mitigated; and</p> <p>f. the adequacy of the monitoring programme.</p>	<p>The annual monitoring reports includes:</p> <p>a) a diagram of the pen locations within the consented area.</p> <p>b) a presentation of monitoring results.</p> <p>c) a report of the effects of the farm operation, including feed inputs discharged in the monitoring period.</p> <p>d) an assessment of the adverse effects of the farm on the environment – the report concluded the farm is having no <u>significant</u> effects on the environment.</p> <p>e) recommendations regarding how any adverse effects on the environment can be avoided, remedied or mitigated – the report states management action response required to address sediment zinc concentrations.</p> <p>f) the report does not provide an assessment of the adequacy of this monitoring programme.</p>	

<p><b>Further notes:</b></p> <p><u>Recommendations:</u></p> <p>Condition 16: Control station QC_Ctl_2 be evaluated in terms of its suitability as a reference station for the Otanerau Bay farm site; either retain control station QC_Ctl_2 and consider this station in compliance assessments or select a suitable replacement control station.</p> <p>Condition 21d: The conclusion that effects on the environment are not significant therefore are complaint, however there is some uncertainty around the significance of sediment zinc accumulation. The expectation that future compliance assessments of water quality effects will be based on bottom water DO instead of surface DO need to be reconsidered.</p>
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**Please Note:**

**Monitoring Fees**

Pursuant to section 36 of the Resource Management Act 1991 and the Marlborough District Council's (Council) schedule of fees, the consent holder shall be responsible for all costs associated with the monitoring of this consent in accordance with the schedule of fees.

The observations, results and determinations contained within this report represent the conditions as observed at the time of the site inspection undertaken by a MDC Compliance Officer, or at the time of review of all required data available to a MDC Compliance Officer at the point of report production. All observations,

results and determinations, and therefore the ratings of compliance, are subject to change should there be a change in circumstances or material information from that referred to within this report.

Where non-compliance is noted on an inspection visit, remedial action is identified and advised to the consent holder in writing. A follow-up visit may confirm that appropriate remedial action has been taken. The consent holder shall receive an additional charge for the costs of the follow-up inspections undertaken by Council, or their agent, to ensure that compliance with consent conditions is met.

**Privacy Statement and publication of information**

Council needs to collect personal information (including names and contact details) to effectively monitor compliance with resource consents, plan requirements and the NES-PF. Personal information that you provide in response to this communication will be held and protected by Council in accordance with the Privacy Act 1993. You can access and correct that information by contacting Council through the contact details below. The information that we receive from you will be made available to the public through Council's online resource consent files.



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