

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

<b>General Conditions for WDC and WCRC .....</b>	<b>2</b>
1.0 General.....	2
2.0 Notification .....	2
3.0 Review of Conditions .....	3
4.0 Bond Conditions .....	3
5.0 Annual Work Programme .....	4
6.0 Management Plans .....	6
7.0 Method of Operations .....	8
8.0 Hazardous Substances .....	8
9.0 Rehabilitation.....	9
10.0 Complaints and Non-Compliance .....	12
11.0 Community Liaison Group.....	12
<b>Westland District Council Conditions .....</b>	<b>13</b>
12.0 Hours of Operation .....	13
13.0 Buildings.....	13
14.0 Site Access.....	13
15.0 Transport.....	14
16.0 Lighting.....	15
17.0 Noise .....	15
18.0 Ecological Management.....	16
19.0 Visual screening and planting .....	18
20.0 Archaeology .....	19
<b>General Conditions to Apply to all WCRC Consents.....</b>	<b>20</b>
21.0 Method of Mining .....	20
22.0 Accidental Discovery Protocol .....	20
23.0 Erosion and Sediment Control Plan .....	20
24.0 Water Management Plan.....	21
<b>Conditions to Apply to WCRC Discharge Permit .....</b>	<b>22</b>
25.0 Method of Discharge .....	22
26.0 Water Monitoring .....	23
<b>Conditions to Apply to WCRC Air Discharge Permit .....</b>	<b>26</b>
27.0 Dust Management Plan .....	27

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# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

28.0 Air Quality Management and Monitoring.....	27
<b>Conditions to Apply to WCRC Water Take Permit.....</b>	<b>28</b>
29.0 Dredge Pond Water Level Management Zone.....	28
30.0 Processing Plant Groundwater Take .....	28

<b>General Conditions for WDC and WCRC</b>	
<b>1.0 General</b>	
1.1	The Consent Holder must carry out the mineral sand mining activities in general accordance with the application dated October 2023, the further information submitted 6 December 2024, and the Site Plan enclosed as Schedule 1.
1.2	The Consent Holder must ensure all key staff and contractors are made aware of, and have access to, the resource consent conditions prior to the commencement of mining. A copy of these documents must also be readily available on-site.
1.3	All actual and reasonable costs incurred by the Consent Authorities in monitoring, enforcement and administration of this resource consent must be met by the Consent Holder.
1.4	Within 2 months of implementation of these consents, the Consent Holder must appoint an Accountable Person to be responsible for compliance of all conditions of these consents. The Accountable Person must be based on-site for a minimum of 4 hours per day, for two days per week. The Accountable Person must: <ul style="list-style-type: none"> <li>a) Review, submit and ensure compliance with all management plans listed in the conditions of these consents;</li> <li>b) Ensure there is another person who can provide cover in the event they are sick or unavailable, and to provide for succession ('Nominated Cover Person');</li> <li>c) Be the point of contact between the Consent Holder, the Consent Authorities, the Community Liaison Group (required by Condition 11.0) and the community generally, and pro-actively engage with these parties as required under these consents;</li> <li>d) Deliver on reporting requirements required by the conditions of these consents.</li> </ul>
1.5	The Consent Authorities must be advised of the name and contact details of the Accountable Person and the Nominated Cover Person. In the event that the Accountable Person or Nominated Cover Person change, the Consent Authorities must be notified.
1.6	A sign must be erected at the property boundary adjacent to the access road, which provides the name and contact details of the Accountable Person and Nominated Cover Person required to be appointed under Condition 1.4.
<b>2.0 Notification</b>	
2.1	For monitoring purposes, the Consent Holder must notify the Consent Authorities of the following: <ul style="list-style-type: none"> <li>(a) the intended commencement date of activities at least 5 working days prior to commencement of works on-site; and</li> <li>(b) the intended completion of final mine closure rehabilitation activities at least 5 working days prior to works ceasing on-site.</li> </ul>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

<b>3.0 Review of Conditions</b>	
3.1	<p>Pursuant to Section 128(1) of the Act, the Consent Authorities may review any of the conditions of these consents by serving notice on the Consent Holder within a period of 60 working days, commencing on each anniversary of the date of commencement of these consents for any of the following purposes:</p> <ul style="list-style-type: none"> <li>a) To deal with any unanticipated adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage, including any material elevation of noise levels associated with the mining or processing operation, including for extended periods of time, which was not anticipated by noise modelling informing the resource consent conditions.</li> <li>b) To assess the appropriateness of imposed monitoring parameters, monitoring regimes and monitoring frequencies and to alter these accordingly.</li> <li>c) To ensure that any management plan required by these conditions gives effect to conditions of these consents.</li> </ul>
<b>4.0 Bond Conditions</b>	
4.1	The Consent Holder must provide and maintain in favour of the Consent Authority a bond to secure compliance by the Consent Holder with all the conditions of these consents, including the completion of all final mine closure activities required by these consents and to avoid, remedy or mitigate any adverse effects on the environment arising as a result of the exercise of these consents.
4.2	<p>The payment of the bond quantum by the Consent Holder, as required by Condition 4.4 must either be:</p> <ul style="list-style-type: none"> <li>a) A bond in favour of the Consent Authority for the guarantee sum in a form and executed by a surety acceptable to the Consent Authority; or</li> <li>b) A cash bond deposited with and held in a bank account by the Consent Authority</li> </ul>
4.3	Where a bond is guaranteed in accordance with Condition 4.2 a), the guarantor must bind itself to pay up to the bond quantum for the carrying out and completion of all obligations of the Consent Holder under the bond.
4.4	The bond (as set at any time under Condition 4.1) must be held or remain in full force and effect throughout the term of these consents and until all conditions under these consents have been performed unless otherwise agreed by the Consent Authority.
4.5	The amount of the bond must be \$286,650 (two hundred and eighty six thousand and six hundred and fifty dollars).
4.6	The amount of the bond may be inflation adjusted annually, if requested by the Consent Authority, by the movement of the CPI relative to the CPI at the date when the bond is first provided.
4.7	The Consent Holder will not exercise or must cease exercising these consents:

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<p>a) Until the bond required by Condition 4.1 has been fully executed by the Consent Holder and guarantor, or has been deposited with the Consent Authority, or</p> <p>b) In respect of any inflation adjusted bond referred to in Condition 4.6, after 30 working days have expired from the date the Consent Holder was notified of the terms of the inflation adjusted bond by the Consent Authority unless the inflation adjusted bond has been executed with the Consent Authority by the Consent Holder and guarantor, or has been deposited with the Consent Authority; or</p> <p>c) In respect of any bond sum changed or reviewed pursuant to Sections 127 or 128 of the Act, after thirty 30 working days have expired from the date the Consent Holder was notified of the decision of the changed or reviewed bond by the Consent Authority unless the changed or reviewed bond has been executed with the Consent Authority by the Consent Holder and guarantor, or has been deposited with the Consent Authority, or</p> <p>d) If, during the term of these consents, the whole or any part of the bond is required to be used for the carrying out and completion of all obligations of the Consent Holder under the bond, unless the full bond has been executed with the Consent Authority by the Consent Holder and guarantor, or has been deposited with the Consent Authority.</p>
4.8	The Consent Holder must complete such work requested in respect of which any bond or deposit is held, within the reasonable time period nominated by the Consent Authority's written request.
4.9	If the consents are transferred in part or whole to another party or person, the bond must continue until any outstanding work at the date of transfer is completed to ensure compliance with the conditions of these consents, unless the Consent Authority are satisfied adequate provisions have been made to transfer the liability to the new Consent Holder.
4.10	In the event of any such transfer of the consents, the Consent Holder must ensure that the transfer provides a replacement bond to the Consent Authority on the terms required by the Bond Conditions.
<b>5.0 Annual Work Programme</b>	
5.1	<p>At least 20 working days prior to mining activities commencing and thereafter on or before the anniversary date of the commencement of these consents, the Consent Holder must submit a programme of work ("Annual Work Programme") for certification by the Consent Authorities detailing:</p> <ul style="list-style-type: none"> <li>○ The proposed works to be carried out over the next 12 months including: <ul style="list-style-type: none"> <li>▪ Equipment to be used;</li> </ul> </li> </ul>


# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<ul style="list-style-type: none"> <li>▪ Areas of topsoil and overburden stripping and stockpile locations;</li> <li>▪ New areas of land disturbance that will be mined;</li> <li>▪ Access tracks;</li> <li>▪ Drill/prospecting sites and other tracks to be constructed; and</li> <li>▪ Any other site works within the consent area.</li> </ul> <ul style="list-style-type: none"> <li>○ The approximate open volume of the working pit at the start of the year including depth of excavations and the area of the working pit.</li> <li>○ The progressive rehabilitation works to be carried out over the next 12 months including: <ul style="list-style-type: none"> <li>▪ Areas of unrestored land (i.e. all land not finally topsoiled and revegetated) at the beginning of the new year;</li> <li>▪ The area that will be fully rehabilitated during the forthcoming year;</li> <li>▪ Maximum slope angles, bench heights and widths of recontoured ground, if applicable; and</li> <li>▪ Rehabilitation method and technique including replacement of topsoil and vegetation cover.</li> </ul> </li> <li>○ Description of measures to prevent adverse effects on natural waterbodies, including drainage works within the consent area, and the collection and treatment of site run-off before discharge to land.</li> <li>○ Measures that must be adopted to ensure soil conservation and slope stability are controlled;</li> <li>○ A description and analysis of any unexpected adverse effects that have arisen as a result of activities within the last 12 months, and the steps taken to address the adverse effect.</li> </ul>
5.2	<p>The following plans, reports and results of monitoring must also be submitted as part of the Annual Work Programme:</p> <ul style="list-style-type: none"> <li>○ A detailed plan or aerial photograph showing: <ul style="list-style-type: none"> <li>▪ The open working area at the start of the year;</li> <li>▪ Proposed mine path for the forthcoming year including haul and access roads;</li> <li>▪ Rehabilitated ground behind the open pit area;</li> <li>▪ Location of existing and intended topsoil or overburden dumps and their dimensions;</li> <li>▪ Location of natural waterbodies;</li> <li>▪ Location of present and intended drainage works and settling ponds; and</li> <li>▪ Any other site works within the consent area.</li> </ul> </li> </ul>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<ul style="list-style-type: none"> <li>○ An Erosion and Sediment Control Plan in accordance with condition 23.0.</li> <li>○ Results of water quality, flow and water level monitoring from the previous 12 months in the form of an annual monitoring report required by condition 26.7.</li> <li>○ Any proposed updates to Management Plans submitted in accordance with the respective conditions of consent.</li> <li>○ Results of dust monitoring from the previous 12 months required by Condition 28.3 for the previous 12 months.</li> </ul>
5.3	The Consent Holder must provide the Consent Authorities with any further information, which the Consent Authorities may reasonably request after considering any Annual Work Programme. This information must be provided in a timely manner as required by the Consent Authorities.
<b>6.0 Management Plans</b>	
6.1	<p>At least 20 working days prior to undertaking any activities authorised by these consents, the Consent Holder must submit the following management plans to the Consent Authorities for certification: (a) Noise Management Plan(b) Fauna Management Plan(c) Dust Management Plan</p> <ul style="list-style-type: none"> <li>(d) Transport Management Plan</li> <li>(e) Water Management Plan</li> <li>(f) Monitoring and Mitigation Plan</li> <li>(g) Erosion &amp; Sediment Control Plan and</li> <li>(h) Indigenous Restoration and Rehabilitation Plan</li> </ul> <p><i>Advice notes:</i></p> <p>(a) These are collectively referred to as Management Plans.</p> <p>(b) Where a plan requires the input of an appropriately qualified professional, the Consent Authorities may engage an appropriately qualified person to peer review the plan as part of the certification process.</p>
6.2	<p>The purpose of the Management Plans is to implement the relevant conditions of these consents. All Management Plans must include (where relevant):</p> <ul style="list-style-type: none"> <li>a) The purpose of the plan;</li> <li>b) Reference to the conditions of these consents that the management plan implements;</li> <li>c) How each of the relevant conditions will be given effect to;</li> <li>d) procedures for implementing the relevant plan;</li> </ul>

A draft Water Management, Monitoring and Mitigation Plan has already been provided.



# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<p>e) Plan auditing check lists;</p> <p>f) Monitoring programmes and/or monitoring protocols;</p> <p>g) Feedback mechanisms for any adaptive management, including circumstances in which a material change to the management plan would be required;</p> <p>h) An organisational chart showing staff and contractor positions and responsibilities for plan implementation;</p> <p>i) Relevant training and induction procedures and training schedules; and</p> <p>j) Reporting procedures and format for providing the results of any monitoring or surveying required by the Management Plans.</p>
6.3	<p>Site activities must not commence until the management plans required in condition 6.1 have been certified by the relevant Consent Authorities. If the response from the Consent Authorities is that they are not able to certify the management plans, the Consent Holder must consider any reasons and recommendations provided by the Consent Authorities, amend the management plans accordingly, and resubmit the management plans to the Consent Authorities.</p>
6.4	<p>If the Consent Holder has not received a response from the Consent Authorities within one month of the date of submission of the management plans under Condition 6.1, the management plans must be deemed certified.</p> <p>The Consent Holder may amend the management plans at any time to take into account:</p> <p>(a) Any positive measure/s to ensure the stated objectives of the management plans are achieved;</p> <p>(b) Any required actions identified as a result of monitoring under these consents; and</p> <p>(c) Any changes required to further reduce the potential for adverse effects as a result of actions identified in the Annual Work Programme.</p> <p>Where management plans require the input of an appropriately qualified person, any amendments to those management plans must also be undertaken by an appropriately qualified person.</p> <p><i>Advice Note: Some management plans have ongoing annual review requirements which are required in order to avoid, remedy or mitigate effects. These specific review requirements are stipulated in the relevant conditions on this consent.</i></p>
6.5	<p>Any amended management plans must be provided to the relevant Consent Authorities within 20 working days of the amendment for review and for certification in accordance with Condition 6.1.</p>
6.6	<p>The Plans must not be amended in a way that contravenes the matters set out in the conditions for the respective Plans .</p>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

6.7	If the response from the Consent Authorities is that they are not able to certify the management plan, the Consent Holder must consider any reasons and recommendations provided by the Consent Authorities, amend the management plan accordingly, and resubmit the management plan to the Consent Authorities.
6.8	<p>A copy of the latest version of the certified Management Plans must be kept on site at all times and all key personnel must be made aware of the contents of each Plan and their responsibilities under each Plan</p> <p>If the Consent Holder has not received a response from the Consent Authorities within one month of the date of submission of any reviewed management plan, the management plan must be deemed certified.</p>
6.9	Subject to any other conditions of these consents, all activities must be undertaken in accordance with the latest version of the <u>certified Management</u> Plans.
<b>7.0 Method of Operations</b>	
7.1	<p>The mine boundaries must be clearly marked on the ground before any earthworks take place, with the following setbacks in place:</p> <ul style="list-style-type: none"> <li>(a) 10m setback from the northern and southern property boundaries</li> <li>(b) 20m setback from the State Highway 6 property boundary</li> </ul>
7.2	<p>The maximum site disturbance must not exceed 27.7 hectares at any one time, excluding the processing plant area.</p> <p><i>Advice note: The disturbed area includes the mine pit and associated water management infrastructure, active rehabilitation areas and the service road.</i></p>
7.3	The Consent Holder must strip soil material ahead of operations and stockpile it for progressive and final mine closure rehabilitation purposes. Stockpiled soil must be protected from erosion caused by water and wind as far as practicable.
7.4	The Consent Holder must not bury any topsoil or soil material suitable as a growing medium or remove it from the site.
<b>8.0 Hazardous Substances</b>	
8.1	Refuelling, lubrication and mechanical repairs of equipment and storage of hazardous substances and dangerous goods must be undertaken in such a manner so as to ensure that spillages of hazardous substances or dangerous goods onto the land surface or into a waterbody do not occur, including that refuelling must not occur within 20 metres of a natural water body. Any accidental discharge of greater than 20 litres must be reported immediately to the Consent Authority along with details of the steps taken to remedy and/or mitigate the adverse effects of the discharge.

The maximum area indicated in the AEE was 22.5 ha with 15% contingency and 4.4 ha more for the processing plant. I note that the draft ESCP indicates 27.7 ha.



# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

8.2	All contractors and/or operators transporting or storing more than 20 litres of fuel must carry spill kits to enable immediate action to remedy and/or mitigate the effects of hazardous substances discharges on-site.
8.3	A list of all hazardous substances and dangerous goods must be maintained on site at all times showing location of storage and use, in case of an emergency.
8.4	<p>Diesel storage shall be limited to 15,000 litres, and shall be contained in a certified tank with full secondary containment.</p> <p><i>Advice note: hazardous substance storage is managed by the Hazardous Substances and New Organisms Act 2006, and must be certified under this legislation.</i></p>
8.5	<p>For the duration of mining, the Consent Holder must undertake quarterly systematic testing of the heavy minerals concentrate from within the active mining area to confirm that the concentrate remains below the acceptable level of radioactivity concentration limits as specified in Schedule 2 of the Radiation Safety Act 2016. Copies of the independent test results must be submitted to the Consent Authority within 10 working days of receipt of the results.</p> <p><i>Advice Note:</i>  <i>If material meets the criteria in Schedule 2 of the Radiation Safety Act 2016, the extraction, processing and transport of heavy minerals concentrate will require a Source Licence under this Act, and may possibly require a radiation safety plan as per section 18 of the Act.</i></p>
8.6	<p>For the duration of mining, the Consent Holder must maintain radiation monitoring devices in the locations specified in the Dust Management Plan. Radiation monitoring devices must collect data continuously over three-month intervals prior to collection and delivery to an independent laboratory for testing. Copies of the independent test results must be submitted to the Consent Authority with 10 working days of receipt of the results. If the radiation monitoring devices record radiation levels exceeding the equivalent of 1 mSv (millisievert) above background levels over 12 months (i.e., the sum of results from the past four device readings at each location minus background levels established prior to the activity commencing) as a result of the activity, then the Radiation Safety Act 2016 applies to the activity, and the Consent Holder must:</p> <ul style="list-style-type: none"> <li>(a) inform and consult the Office of Radiation Safety, New Zealand Ministry of Health; and</li> <li>(b) carry out all activities on site in accordance with the Radiation Protection and Radioactive Waste Management in Mining and Mineral Processing Code of Practice and Safety Guide published by the Australian Radiation Protection and Nuclear Safety Agency.</li> </ul>
<b>9.0 Restoration and Rehabilitation programme</b>	
9.1	<p>The Consent Holder must prepare an Indigenous Rehabilitation Plan (IRRP), which provides:</p> <ul style="list-style-type: none"> <li>a) For the remediation of 4.2ha of indigenous treeland and grazing forest on the Site through the provision of direct vegetation transfer and planting of 4.75ha of indigenous broadleaf-podocarp forest along the full length of the eastern forest</li> </ul>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<p>area (1.7 kilometres), that is at least 30 metres in width (Revegetation Site); and</p> <p>b) the creation of three new wetlands of total 2.37ha.</p> <p><i>Advice note: the indigenous habitat restoration mentioned above excludes additional landscape and visual mitigation planting as shown in the Draft Landscape Mitigation Plan (LMP) for the Project (prepared by Glasson Huxtable). The LMP proposes additional boundary planting on the western bunds (1.08ha) and infill planting in between them (0.18ha). Planting is also proposed along the length of the northern boundary (0.54ha). While not targeting ecological remediation or mitigation gains, these plantings of native species, have both a resource and a landscape movement benefit for the local indigenous species.</i></p> <p>c) The IRRP shall include;</p> <ol style="list-style-type: none"> <li>i. Description of the Site;</li> <li>ii. Description of the remediation and provision of planting;</li> <li>iii. Description of the wetland construction;</li> <li>iv. Revegetation mitigation methodologies and outcomes;</li> <li>v. Process of remedial forest restoration;</li> <li>vi. Revegetation site preparation;</li> <li>vii. Revegetation monitoring methods including the use of plots and transects to measure vegetation presence, cover and species abundance;</li> <li>viii. Wetland monitoring methods; and</li> <li>ix. Pest plant and weed control.</li> </ol>
9.2	<p>The consent holder must comply with the following for any direct vegetation transfer to the Revegetation Site:</p> <ol style="list-style-type: none"> <li>a) before any direct vegetation transfer to the Revegetation Site occurs, the consent holder must prepare an appropriately sized area in the Revegetation Site to facilitate the direct vegetation transfer; and</li> <li>b) the direct vegetation transfer to the Revegetation Site must include as much tree, shrub, ground tier native vegetation, leaf litter, top soil and woody debris as practicable.</li> </ol>
9.3	<p>The consent holder must comply with the following for any new planting in the revegetation Site:</p> <ol style="list-style-type: none"> <li>a) the planting in the Revegetation Site does not need to be like for like however it should provide ecological connectivity;</li> </ol>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<p>b) the new planting in the Revegetation Site must be done using appropriate eco-sourced species as identified in the IRRP; and</p> <p>c) upon completion, there shall be 80% canopy cover over the entire Revegetation Site and the canopy species in the Revegetation Site is at least 80% kamahi, hinau and kahikatea.</p> <p><i>All Management Plans are required to adhere to the requirements in Conditions <b>Error! Reference source not found.</b></i></p>
9.4	<p>The Consent Holder must carry out progressive land rehabilitation, to achieve the following requirements:</p> <p>a) Reinstatement of the productive pasture;</p> <p>b) Reinstatement of existing drainage to reflect pre-mining catchment areas;</p> <p>c) Ensure rehabilitated land is stabilised as quickly as possible; and</p> <p>d) Protect all waterbodies from the effects of erosion and sediment generation.</p> <p><i>Advice Note: Stabilised means an area inherently resistant to erosion such as rock, or rendered resistant by the application of aggregate, geotextile, vegetation, mulch or an approved alternative. Where vegetation is to be used on a surface that is not otherwise resistant to erosion, the surface is considered stabilised once an 80% vegetation cover has been established.</i></p>
9.5	<p>At the completion of mining (final mine closure), the mine area must be fully rehabilitated.</p> <p><i>Advice Note: Final mine closure is the completion of all mining and progressive rehabilitation works and removal of buildings.</i></p>
9.6	<p>If for any reason active mining ceases for more than 3 months, operational stockpiles must be removed and material returned to the mining area, and all disturbed areas must be rehabilitated as required by the conditions of these consents within 6 months from the date of the last mining activity.</p>
9.7	<p>The proposed ecological reserve shall be formally protected prior to the expiry of this consent, either through a suitable covenant, other legal mechanism, or vesting with local tangata whenua or an appropriate Crown Agency. The purpose of vesting or covenanting is to ensure the ongoing protection of the indigenous vegetation from future disturbance and to maintain indigenous biological diversity. If the land is to be protected by covenant, the consent holder must submit a draft of the covenant document to the West Coast Regional Council prior to registration on the Record of Title for the site, for certification that the covenant will suitably achieve protection of the indigenous vegetation on site in perpetuity.</p>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

<b>10.0 Complaints and Non-Compliance</b>	
10.1	Upon receipt of any complaint, the Consent Holder must promptly investigate the complaint, take action to remedy or mitigate the cause of the complaint and inform the Consent Authorities within 48 hours of the report, of the details of the complaint and the action taken.
10.2	<p>The Consent Holder must maintain a complaints register for all aspects of operations in relation to these consents. The register must be available to the Consent Authorities at all times and must:</p> <ul style="list-style-type: none"> <li>a) detail the date, time and type of complaint;</li> <li>b) cause of the complaint; and</li> <li>c) the action taken in response to the complaint.</li> </ul>
10.3	Complaints which may infer non-compliance with the conditions of these consents, must be referred to the Consent Authorities within 48 hours of the report.
10.4	<p>In the event of any breach of compliance of the conditions of these consents, within 5 working days of becoming aware of any breach the Consent Holder must provide written notification to the relevant Consent Authorities which explains the cause of the breach, and if the cause was within the control of the Consent Holder, steps which were taken to remedy the breach and steps which must be taken to prevent any further occurrence of the breach.</p> <p><i>Advice Note: This consent condition does not replace the compliance and enforcement responsibilities of the Consent Authorities.</i></p>
<b>11.0 Community Liaison Group</b>	
11.1	<p>Within 90 working days of commencement of these consents, the Consent Holder must establish a Community Liaison Group (CLG). An invitation must be extended to 4 representatives of the Mananui/Ruatapu community, Te Runanga o Ngāti Waewae, Te Runanga o Makaawhio, Fish and Game, and the Department of Conservation. The Consent Holder must ensure that members of the CLG are provided with the opportunity and facilities to meet at least once every three months for the first 12 months of mining operations, and thereafter as agreed with the CLG.</p> <p><i>Advice Note: The CLG is not a decision making body, but an important forum for the dissemination of information from the Consent Holder to interested parties. It also provides the opportunity for meaningful engagement between the parties, and for the CLG to comment on consent compliance and provide offer suggested changes to operations, monitoring and adaptive management. Comments and recommendations from the CLG are to be given due consideration. In the event that it is not possible to establish or maintain a CLG through lack of interest or participation from the local community, then such failure to do so shall not be deemed a breach of these conditions.</i></p>
11.2	<p>The purpose of the CLG is to provide an ongoing means of communication between the Consent Holder and the local community, both through regular meetings and informal communication between the members and the Consent Holder. Matters to be discussed may include, but are not limited to:</p> <ul style="list-style-type: none"> <li>a) Any complaints recorded and actions taken in response to the complaints as required by Condition 10.2;</li> </ul>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<p>b) Any proposed amendments to Management Plans;</p> <p>c) The results of any surveys or monitoring undertaken in accordance with conditions of this consent.</p>
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## Westland District Council Conditions

### 12.0 Hours of Operation

12.1	<p>The mining and processing activities must comply with the following hours of operation:</p> <ul style="list-style-type: none"> <li>○ Topsoil stripping and rehabilitation works – 0700-2200 7 days a week</li> <li>○ Mining Activities – 24 hours a day / 7 days a week</li> <li>○ Processing Plant Activities - 24 hours a day / 7 days a week</li> <li>○ Heavy Mineral Concentrate Trucking Activities - 24 hours a day / 7 days a week</li> </ul> <p><i>Advice Note: In addition to condition 12.1, further noise restrictions are contained in Condition 16.0 Noise.</i></p>
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### 13.0 Buildings

13.1	Buildings associated with the mining activity must be constructed and located generally in accordance with the site plan titled “Mananui Consent Brief Map” and prepared by Westland Mineral Sands Co. Ltd (Att N Schedule 1 Site Plan).
13.2	<p>The colours to be used for all buildings and structures must be painted in the following colours, including but not limited to</p> <ul style="list-style-type: none"> <li>- Resene Woodland (LRV20% on buildings below 5m in height</li> <li>- United Paints Papyrus White (LRV 59%) on buildings above 5m in height</li> </ul>

### 14.0 Site Access

14.1	At least 10 working days prior to the trucking of Heavy Mineral Concentrate from the site, the vehicle crossing for access to the site from State Highway 6 shall be formed in accordance with the vehicle crossing layout plans submitted by the consent holder and labelled as “Project Mananui Access Arrangement” attached as Att N Schedule 2 Access Diagram.
14.2	<p>Prior to vehicle crossing formation works occurring, the consent holder shall submit to the Westland District Council a copy of the Waka Kotahi NZ Transport Agency’s approval to undertake works on the State Highway (as detailed in advice notes a - c).</p> <p><i>Advice Notes:</i></p> <p><i>a) It is a requirement of the Government Roadway Powers Act 1989 that any person wanting to carry out works on a state highway first gain the approval of Waka Kotahi NZ Transport Agency for the works and that a Corridor Access Request (CAR) is applied for and subsequently a Work Access Permit issued before any works commence. A CAR will be required for the vehicle crossing from the subject site to State Highway 6.</i></p> <p><i>b) Detailed design approval will be provided through the CAR process.</i></p> <p><i>c) A CAR is made online via <a href="http://www.beforeudig.co.nz">www.beforeudig.co.nz</a> and/or <a href="http://www.submitica.co.nz">www.submitica.co.nz</a>. The CAR needs to be submitted at least 15 working days before the planned start of works. A copy</i></p>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<p>should also be sent to the Waka Kotahi NZ Transport Agency environmental planning team at <a href="mailto:environmentalplanning@nzta.govt.nz">environmentalplanning@nzta.govt.nz</a>.</p> <p>The Corridor Access Request will need to include:</p> <ul style="list-style-type: none"> <li>i. The detailed design for the vehicle crossing. In developing the detailed design, the consent holder will need to consult with the Waka Kotahi appointed state highway maintenance contractor for the West Coast (Fulton Hogan) and a Waka Kotahi Safety Engineer (Jodie Enright).</li> <li>ii. A Construction Traffic Management Plan that has attained approval from the Waka Kotahi appointed state highway maintenance contractor for the West Coast (Fulton Hogan)</li> <li>iii. A design safety audit which has been prepared, processed and approved in accordance with Waka Kotahi guidelines for Road Safety Audit Procedures for Projects (<a href="https://www.nzta.govt.nz/assets/resources/road-safety-audit-procedures/docs/road-safetyaudit-procedures-tfm9.pdf">https://www.nzta.govt.nz/assets/resources/road-safety-audit-procedures/docs/road-safetyaudit-procedures-tfm9.pdf</a>)</li> </ul>
<b>15.0 Transport</b>	
15.1	<p>Truck movements associated with removal of heavy mineral concentrate to and from the site are limited to 70 per day and 6 per hour (both averaged over a one week period).</p> <p><i>Advice Note: For the purposes of the Transport conditions, a movement is defined as being a movement either to or from the site. A truck and trailer unit entering and leaving the site is therefore 2 movements.</i></p>
15.2	<p>The consent holder must prepare a Transport Management Plan (TMP) to:</p> <ul style="list-style-type: none"> <li>a) ensure the safe and efficient operation of the road transport network around the Site; and</li> <li>b) outline methods to avoid, remedy or mitigate potential transport related effects on residents and visitors to Site.</li> </ul>
15.3	<p>The TMP must include details on the:</p> <ul style="list-style-type: none"> <li>a) Roles and responsibilities of the project manager, mine manager, employees, contractors and visitors;</li> <li>b) Key hazards and management methods;</li> <li>c) Method of reporting crashes involving a vehicle associated with the activity and any other road user and road defects, to the Consent Authority and the relevant Road Controlling Authority (where this is not the Consent Authority);</li> <li>d) Method for the Consent Holder to record, investigate and advise truck and staff transport service drivers of any complaints received about driver behaviour, and to provide this record to the Consent Authority when requested;</li> <li>e) Methods to minimise amenity disturbance for residents, including but not limited to locations where use of air brakes must be avoided.</li> </ul> <p><i>Advice Note: All Management Plans are required to adhere to the requirements in Conditions <b>Error! Reference source not found.-Error! Reference source not found..</b></i></p>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

<b>16.0 Lighting</b>	
16.1	Fixed lighting must not exceed 2.0 lux spill (horizontal and vertical) of light onto any adjoining property, measured at any point more than 2m inside the boundary of the adjoining property or the closest window on the adjoining property whichever is the closest.
16.2	<p>Lighting must be designed in a manner which adheres to the Australian Government's National Light Pollution Guidelines for Wildlife January 2023 (or subsequent revision); including but not limited to:</p> <ul style="list-style-type: none"> <li>• All fixed lighting must be directed downward, shielded to avoid light spill outside of permitted activity limits, operate primarily in the yellow orange spectrum, and be filtered to reduce blue and violet wavelengths;</li> <li>• Lights must only illuminate the object or area intended;</li> <li>• Fixed lights must be mounted as close to the ground as practicable while still achieving site lighting requirements;</li> <li>• External lighting must be minimised on the seaward side of buildings to minimise light spill toward the coast;</li> <li>• external lighting must use the lowest intensity lighting possible, while ensuring compliance with workplace health and safety requirements.</li> </ul>
<b>17.0 Noise</b>	
17.1	<p>The Consent Holder must prepare a Noise Management Plan (NMP) to management day-to-day noise emissions from the Site.</p> <p>At a minimum, the NMP and their contact details:</p> <ol style="list-style-type: none"> <li>a) Person responsible for implementing the NMP;</li> <li>b) Applicable noise conditions relating to noise;</li> <li>c) Training of staff relating to how to minimise noise and vibration;</li> <li>d) Maintenance schedule for site access road surfaces to avoid excessive noise and vibration;</li> <li>e) Activity risk analysis for noise generation; and</li> <li>f) Method for handling complaints; and</li> <li>g) Noise monitoring methodology, including frequency, and location.</li> </ol> <p><i>Advice Note: All Management Plans are required to adhere to the requirements of Condition 6.1-6.10.</i></p>
17.2	<p>Mining activities shall be conducted such that the following noise limits are not exceeded within the notional boundary of any dwelling existing at the date consent is granted:</p> <ul style="list-style-type: none"> <li>• Daytime: 55 dB <math>L_{Aeq(15\text{ min})}</math></li> <li>• Night-time: 45 dB <math>L_{Aeq(15\text{ min})}</math> and 75 dB <math>L_{AFmax}</math></li> </ul>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<p>“Notional boundary” means a line 20 metres from the façade of any building used for residential activity, or the legal boundary of the site on which the building is located where the boundary is closer to the building than 20 metres.</p> <p>Noise shall be measured and assessed using New Zealand Standard NZS 6801:2008 “<i>Acoustics - Measurement of environmental sound</i>” and NZS 6802:2008 “<i>Acoustics - Environmental Noise</i>”, respectively.</p>
17.3	<p>The consent holder shall undertake compliance noise monitoring within 30 days of mining and processing operations occurring.</p> <p>All noise monitoring shall be made available to the West Coas Regional Council within two weeks of completion of each monitoring visit.</p>
17.4	<p>Construction activities such as the formation of site roads, building structures and earth bunds for noise control purposes shall be planned and managed in accordance with New Zealand Standard NZS 6803:1999 “<i>Acoustics - Construction Noise</i>”.</p>
	<p>Mining activities (excluding construction activities) must not occur within the following setback distances from the notional boundaries of 669, 677 and 694 Ruatapu Road at the following times:</p> <ul style="list-style-type: none"> <li>• 85 metres between 0700 and 2200 hrs, and</li> <li>• 115 metres between 2200 and 0700hrs.</li> </ul> <p>If compliance monitoring carried out under condition 17.3 above confirms that the noise limits in condition 17.2 can still be achieved, the setbacks may be reduced to a point where the compliance limit is reached. The revised setback distances must be confirmed in the compliance monitoring report prepared by a suitably qualified acoustic professional and supplied to Council prior to the setbacks being reduced.</p>
17.5	<p>3 metre high noise control bunds shall be constructed for the minimum extent shown in Schedule 3.</p>
17.6	<p>Mining operations shall utilise the best practicable option to minimise noise at all times. This includes regular replacement of worn parts, maintenance of mufflers, lubrication of all moving parts to avoid speaks and squeals, and appropriate operation of all equipment.</p>
17.7	<p>Site vehicles shall not be fitted with tonal or beeper reversing alarms.</p>
<b>18.0 Ecological Management</b>	
18.1	<p>The consent holder must prepare Fauna Management Plan (FMP) to manage, reduce and remove harm to relevant fauna on the Site when felling trees and clearing vegetation of the pasture forest fragments. The FMP must include details on the:</p> <ul style="list-style-type: none"> <li>a) Relevant habitats on the Site;</li> <li>b) Relevant fauna likely to be present on the Site, including a description of threatened and at-risk indigenous fauna likely to be present on the Site;</li> </ul>



# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<ul style="list-style-type: none"> <li>c) Species that require specific mitigation measures, and a description of the mitigation measures that need to be implemented;</li> <li>d) Nesting bird management methods;</li> <li>e) Lizard management methods;</li> <li>f) Bat management methods consistent with the DoC Bat Roost Protocol (October 2024); and</li> <li>g) Monitoring requirements to assess the effectiveness of the FMP.</li> </ul> <p>.</p> <p><i>Advice Note: All Management Plans are required to adhere to the requirements in Conditions 6.1-6.10.</i></p>
18.2	<p>The FMP must be reviewed annually by the Consent Holder. Any amendments must be submitted to the relevant Consent Authorities for Certification in accordance with the requirements in Conditions 6.1-6.10. Any amendments to the FMP must:</p> <ul style="list-style-type: none"> <li>a) Avoid effects on any threatened or at-risk indigenous species identified as being within or adjacent to the Site area;</li> <li>b) comply with the conditions of this resource consent</li> <li>c) have been reviewed by an appropriately qualified and experienced ecologist;</li> <li>d) follow the certification process set out Conditions 6.1-6.100.</li> </ul> <p>a) <i>Advice note: any disturbance or relocation of avifauna or herpetofauna may require a permit from the Department of Conservation under the Wildlife Act (1953).</i></p>
18.3	<p>Indigenous vegetation clearance must only occur during March to June to avoid native bird nesting season. If vegetation clearance is carried out outside of this timeframe a pre-tree felling nest survey must be completed by a suitably qualified ecologist in accordance with the FMP. If native bird nesting is found to be present as a result of the pre-indigenous vegetation clearance nest survey, the consent holder must follow the advice of a suitably qualified ecologist on when indigenous vegetation clearance can occur.</p>
18.4	<p>If bats are determined to be present, the consent holder must follow the Department of Conservation Protocols for minimising the risk of felling occupied bat roosts (Bat Roost Protocols, version 4 October 2024).</p> <p><i>Advice note: A wildlife permit will be required under the Wildlife Act 1953 to handle or disturb native species.</i></p>
18.5	<p>If lizards are determined to be present, a pre-clearance check and salvage must be carried out in accordance the FMP. In vegetation areas that may contain gecko, direct vegetation transfer, no mulching, and careful handling of vegetation that may contain gecko must occur where practicable.</p> <p><i>Advice note: A wildlife permit will be required under the Wildlife Act 1953 to handle or disturb native species.</i></p>
18.6	<p>Fish salvage shall be undertaken by a suitably qualified ecologist prior to any mining activities occurring within the central eastern drain, and a barrier installed at the downstream extent of the drain to prevent any recolonisation by fish species during the works. The transfer must be to a viable habitat within in the same catchment.</p>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<i>Advice note: A fishing permit will be required under the Fisheries Act 1996 to relocate native fish.</i>																		
<b>19.0 Visual screening and planting</b>																			
19.1	<p>As soon as practicable following the commencement date of this consent, and within the timeframes specified in the table below the consent holder shall construct bunds utilising material as it becomes available during the pre-mining phase and complete planting of in general accordance of the “ Draft Landscape Mitigation Plan” (Schedule 4); including:</p> <table border="1"> <thead> <tr> <th>Mitigation</th><th>Timeframe</th></tr> </thead> <tbody> <tr> <td>Central Bund</td><td>Prior to the processing plant being commissioned.</td></tr> <tr> <td>Southern Bund</td><td>Prior to mining commencing</td></tr> <tr> <td>Northern Bund</td><td>Within 3 months of the settling ponds being excavated and prior to mining commencing</td></tr> <tr> <td>Temporary Bunds (northern boundary)</td><td>Prior to each time the mine path comes within 150m of the northern boundary until planting is deemed sufficient to have screened views into the application area from the walkway. “Sufficient” is when it is not possible to gain a view into the application area due to the vegetation growth.</td></tr> <tr> <td>Planting between the Central, Northern and Southern Bunds, planting along the Mananui Tramline, plugging gaps on the eastern boundary</td><td>As soon as practicable, and prior to mining commencing.</td></tr> <tr> <td>Move stock fence on northern boundary</td><td>Prior to northern boundary planting commencing</td></tr> <tr> <td>Rehabilitation of the ecological reserve area and stock fencing of ecological reserve area, including creation of southern and central wetlands</td><td>Progressively within 3 years of mining commencing</td></tr> <tr> <td>Final void wetland</td><td>Within 12 months of mining completion</td></tr> </tbody> </table>	Mitigation	Timeframe	Central Bund	Prior to the processing plant being commissioned.	Southern Bund	Prior to mining commencing	Northern Bund	Within 3 months of the settling ponds being excavated and prior to mining commencing	Temporary Bunds (northern boundary)	Prior to each time the mine path comes within 150m of the northern boundary until planting is deemed sufficient to have screened views into the application area from the walkway. “Sufficient” is when it is not possible to gain a view into the application area due to the vegetation growth.	Planting between the Central, Northern and Southern Bunds, planting along the Mananui Tramline, plugging gaps on the eastern boundary	As soon as practicable, and prior to mining commencing.	Move stock fence on northern boundary	Prior to northern boundary planting commencing	Rehabilitation of the ecological reserve area and stock fencing of ecological reserve area, including creation of southern and central wetlands	Progressively within 3 years of mining commencing	Final void wetland	Within 12 months of mining completion
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19.2	The consent holder shall source plants required for the planting and wetland area required from within the Westland Ecological District. Where this is unable to be achieved, the consent holder shall notify the Council and work with the Council and a suitably qualified practitioner to determine an appropriate alternative plant source that is suitable for the conditions at Mananui.																		
19.3	Each plant shall be of nursery stock and be of good form that is true to species. Plants shall be healthy, vigorous and free of disease, injury, parasites or insects and not pot bound.																		
19.4	All planting shall be maintained for the duration of the consent. Maintenance includes weeding, spraying, staking, watering, fertilising, trimming, release of plants, pest removal and plant replacement. The aim is to have plants which are vigorous and thriving, thereby providing more effective screening.																		

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

19.5	Any plants that are dead, diseased, fail to thrive, are stolen or vandalised shall be replaced with a same or similar plant species within the following planting season.
<b>20.0 Archaeology</b>	
20.1	<p>The consent holder must prepare an Archaeological Assessment Plan to manage, reduce and remove harm to relevant sites within the application area. See attachment “Mananui Mineral Sands – An Archaeological Assessment for Sites J33/214 and J33/215”).</p> <p><i>Advice Note: As the proposed works will affect site J33/214, an archaeological authority under Section 44 of the HNZPTA 2014 must be obtained from HNZPT prior to any modification of the site. The disturbance of this site will be carried out in accordance with the archaeological authority, including archaeological monitoring and reporting requirements.</i></p>
20.2	Every practical effort must be made to avoid damage to any known archaeological site (with the exception of J33/214 which is proposed to be disturbed by the mine excavation).
20.3	A protective cordon of fluorescent reflective tape, shall be established around the three water races recorded as site J33/215, with a buffer of 5m, vegetation coverage permitting.


# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

General Conditions to Apply to all WCRC Consents	
21.0 Method of Mining	
21.1	<p>The consent holder must only carry out mining activities within the mining area shown on the attached map titled “Mananui Consent Brief Map” prepared by Westland Mineral Sands Co. Ltd datattached as Att N Schedule 1 Site Plan.</p> <p>The AEE indicated 22.5 ha maximum although the draft ESCP shows 27.7 ha.</p>
21.2	<p>The maximum combined surface area of un-rehabilitated disturbed land in the application area must not exceed 27.7 hectares at any one time, excluding the processing plant area.</p>
21.3	<p>The mining and associated activities under this consent must not cause or induce erosion or slope instability outside the application area.</p>
21.4	<p>The mine pit must be constructed and operated to maintain batter slopes of:</p> <ul style="list-style-type: none"> <li>○ 27 degrees for virgin/undisturbed land</li> <li>○ 22 degrees for tailings deposition</li> </ul>
21.5	<p>The consent holder must engage a suitably qualified geotechnical engineer to review the batter slopes and ensure that land instability is avoided beyond the pit area. A report shall be provided to the Consent Authority no later than 6 months after the commencement of mining in the southwestern corner of the site, which confirms that the slope batters in Condition 21.4 are suitable.</p>
21.6	<p>Mining must not occur within 100m of the escarpment forest in the southeastern corner of the site before condition 21.5 is satisfied and the slope batters are confirmed or amended as required.</p>
22.0 Accidental Discovery Protocol	
22.1	<p>In the event of any disturbance of Koiwi Tangata (human bones) or Taonga (artefacts, including pounamu) the Consent Holder shall;</p> <ul style="list-style-type: none"> <li>○ Cease any further excavation within 50m of the disturbance for a period of at least 24 hours; and</li> <li>○ Immediately advise Consent Authority of the disturbance; and</li> <li>○ Immediately advise the Te Rūnanga O Ngāti Waewae and Te Runanga o Makaawhio, or their authorised representatives of the disturbance; and</li> <li>○ Immediately advise Heritage New Zealand Pouhere Taonga and the New Zealand Police.</li> </ul>
22.2	<p>If the Consent Holder identifies any archaeological discoveries or potential areas or sites of historic value, the Consent Holder shall immediately notify the Consent Authority and a representative of Heritage New Zealand Pouhere Taonga.</p>
23.0 Erosion and Sediment Control Plan	
23.1	<p>The Consent Holder must prepare an Erosion and Sediment Control Plan (ESCP) to minimise sediment entering waterways adjacent to the Site.</p>

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

23.2	<p>As a minimum, the ESCP must include details on the:</p> <ul style="list-style-type: none"> <li>a) Location of the work;</li> <li>b) Contour information;</li> <li>c) Erosion and Sediment Controls (ESCs);</li> <li>d) Chemical treatment requirements, design, and details;</li> <li>e) Internal catchment boundaries;</li> <li>f) Earthworks and ESC construction methods;</li> <li>g) Contingency measures;</li> <li>h) ESC design details;</li> <li>i) Programme for managing non-stabilised areas;</li> <li>j) Staff who will manage ESCs and their contact details;</li> <li>k) Staff who monitor compliance with consent conditions and their contact details;</li> <li>l) Staff who are responsible for managing erosion and sediment control issues and their contact details; and</li> <li>m) Methods and procedures for decommissioning ESCs (if applicable).</li> </ul> <p>The ESCP must be reviewed annually by the Consent Holder and any amendments must be submitted to the relevant Consent Authority for certification in accordance with the requirements in conditions <b>Error! Reference source not found.-Error! Reference source not found..</b> The review is required to reflect the erosion and sediment control measures proposed for the operation over the following 12 months.</p> <p><i>Advice Note: All Management Plans are required to adhere to the requirements in Conditions <b>Error! Reference source not found.-Error! Reference source not found..</b></i></p>
<b>24.0 Water Management Plan and Monitoring and Mitigation Plan</b>	
24.1	<p>The Consent Holder must prepare a:</p> <ul style="list-style-type: none"> <li>a) Water Management Plan (WMP); and</li> <li>b) Monitoring and Mitigation Plan (MMP)</li> </ul> <p>The purpose of the WMP is to define water management objectives and principles and present a management process which gives effect to these. The purpose of the MMP is to provide details of the monitoring that will be undertaken to determine whether the WMP objectives are being met and to set out the actions that will be undertaken if monitoring results signal the potential for hydrological impacts to occur</p>
24.2	The WMP must include details on the:

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<p>a) water management actions and methods for the site, including details on:</p> <ul style="list-style-type: none"> <li>i. the baseline monitoring and the receiving environment;</li> <li>ii. the proposed mine disturbance area;</li> <li>iii. site activities with the potential to cause hydrological impacts;</li> <li>iv. operational water level and water quality monitoring requirements for the duration of the activity;</li> <li>v. groundwater level thresholds and actions to be taken should these thresholds be exceeded;</li> <li>vi. surface water level thresholds and actions to be taken should these thresholds be exceeded;</li> <li>vii. final rehabilitation requirements to avoid adverse hydrological impacts on waterbodies postmining;</li> <li>viii. audit checklists;</li> <li>ix. an organisational chart showing staff and contractor positions and responsibilities for plan implementation; and</li> <li>x. relevant training and induction procedures and schedules.</li> </ul> <p>•  <b>Water quality thresholds and actions to be taken should these thresholds be exceeded</b></p>
24.3	<p>The MMP must include details on the:</p> <ul style="list-style-type: none"> <li>a) proposed operational monitoring methods;</li> <li>b) actions and thresholds;</li> <li>c) implementation activities; and</li> </ul> <p>reporting procedures for environmental monitoring and consent compliance.</p>
24.4	<p>The WMP and MMP must be reviewed annually by the Consent Holder and any amendments must be submitted to the Consent Authority for certification in accordance with the requirements in conditions 6.1-6.10. The annual review is required to:</p> <ul style="list-style-type: none"> <li>a) Reflect the proposed mining operations for the following 12 months; and</li> <li>b) Provide any additional or amended monitoring and mitigation requirements in order to reduce the potential adverse hydrological and/or water quality effects.</li> </ul> <p><i>Advice Note: All Management Plans are required to adhere to the requirements in Conditions 6.1-6.10.</i></p>

## Conditions to Apply to WCRC Discharge Permit

### 25.0 Method of Discharge

25.1	<p>All sediment-laden stormwater from the process plant area and surplus process plant water must be either directed into the mine water facility and recirculated for use in the processing plant, or discharged to the dredge pond or infiltration trench. Notwithstanding this, stormwater from the process plant area may be infiltrated to ground in the area of the plant and stormwater from disturbed land within the site boundaries may be infiltrated to ground anywhere on the site.</p>
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## Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

25.3	a) The Mine Influenced Water discharges shall not contain any contaminants other than suspended sediments, naturally occurring elements and metals.
25.4	The Consent Holder shall take all practicable measures to prevent uncontaminated stormwater entering the mine workings and disturbed areas to reduce the volume of water passing through the mining pond/settling pond system, and to improve the efficiency of the water reticulating system.

## 26.0 Water Monitoring

26.1	<p>The consent holder must carry out water monitoring at the locations shown in the Water Management Plan shown in Schedule 5, and listed in the table below:</p> <table> <tr> <th data-bbox="357 696 695 739">Location</th><th data-bbox="695 696 1034 739">Parameter(s)</th><th data-bbox="1034 696 1311 739">Frequency</th></tr> <tr> <td data-bbox="357 739 695 833">Processing Plant Well Water Supply</td><td data-bbox="695 739 1034 833">Pumping volume</td><td data-bbox="1034 739 1311 833">Daily*</td></tr> <tr> <td data-bbox="357 833 695 1202">Infiltration Trench</td><td data-bbox="695 833 1034 1202">           Discharge Rate, water level             Acceptable         </td><td data-bbox="1034 833 1311 1202">           Total flow to be recorded daily and water levels to be recorded at a minimum 4-hour frequency when discharging to the trench.         </td></tr> <tr> <td data-bbox="357 1202 695 1615">WQM Piezometers - northwest</td><td data-bbox="695 1202 1034 1615">           Monitoring Suite A**             Acceptable         </td><td data-bbox="1034 1202 1311 1615">           Monthly for 12 months prior to mining and monthly thereafter until completion of mining. Weekly sampling required when mining in Area A         </td></tr> <tr> <td data-bbox="357 1615 695 2024">WSM Piezometers – southeast</td><td data-bbox="695 1615 1034 2024">           Monitoring Suite A** and B***            Groundwater levels             Acceptable         </td><td data-bbox="1034 1615 1311 2024">           Monitoring suite A and B – monthly for at least 12 months prior to mining and monthly thereafter until completion of mining.            Groundwater levels - daily         </td></tr> </table>	Location	Parameter(s)	Frequency	Processing Plant Well Water Supply	Pumping volume	Daily*	Infiltration Trench	Discharge Rate, water level  Acceptable	Total flow to be recorded daily and water levels to be recorded at a minimum 4-hour frequency when discharging to the trench.	WQM Piezometers - northwest	Monitoring Suite A**  Acceptable	Monthly for 12 months prior to mining and monthly thereafter until completion of mining. Weekly sampling required when mining in Area A	WSM Piezometers – southeast	Monitoring Suite A** and B*** Groundwater levels  Acceptable	Monitoring suite A and B – monthly for at least 12 months prior to mining and monthly thereafter until completion of mining. Groundwater levels - daily
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# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<p>*Water takes are also required to meet the Resource Management (Measurement and Reporting of Water Takes) Amendment Regulations 2020</p> <p>**Monitoring Suite A includes the following water quality indicators:</p> <table> <tr> <td>Dissolved Aluminium</td><td rowspan="4">Add dissolved Mn to the list. This parameter is already elevated in the groundwater and mining activity may lead to it increasing to above the DWSNZ.</td></tr> <tr> <td>Electrical Conductivity</td></tr> <tr> <td>pH</td></tr> <tr> <td>Turbidity</td></tr> </table> <p>*** Monitoring Suite B includes the following water quality indicators:</p> <table> <tr> <td>Dissolved chromium</td><td rowspan="4">Acceptable</td></tr> <tr> <td>Dissolved copper</td></tr> <tr> <td>Dissolved zinc</td></tr> <tr> <td>Dissolved nickel</td></tr> </table> <p><b>Advice note:</b> Infiltration Trench water level monitoring should comprise both water levels in the trench and the groundwater level in a piezometer installed adjacent to the eastern end of the trench.</p>	Dissolved Aluminium	Add dissolved Mn to the list. This parameter is already elevated in the groundwater and mining activity may lead to it increasing to above the DWSNZ.	Electrical Conductivity	pH	Turbidity	Dissolved chromium	Acceptable	Dissolved copper	Dissolved zinc	Dissolved nickel
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Dissolved zinc											
Dissolved nickel											
26.2	<p>If the following water level threshold is exceeded in the southeastern WQM piezometers, the consent holder shall implement the actions outlined in the Water Management Plan, including:</p> <ul style="list-style-type: none"> <li>Notify West Coast Regional Council (WCRC) within five working days.</li> <li>Develop an action plan to reduce groundwater mounding at the eastern end of the infiltration trench (this is likely to initially comprise expansion of the trench at the western end) and issue the plan to WCRC for review and comment.</li> <li>Increase the frequency of water quality monitoring in the southeastern WQM piezometers to weekly until a westerly hydraulic gradient has been re-established.</li> </ul> <p>The following additional actions shall be undertaken in the event of a water level and water quality threshold exceedance:</p> <ul style="list-style-type: none"> <li>Develop a plan for water quality monitoring at the edge of the riparian wetland and issue to WCRC for review and comment.</li> <li>Initiate water quality monitoring plan and compare monitoring results to ANZG 99% species protection thresholds monthly. Review and revise action plan in accordance with monitoring result assessment outcomes.</li> </ul> <table> <tr> <th>Parameter</th><th>Threshold</th></tr> <tr> <td>Water level</td><td>Where the monthly average groundwater elevations in the southeastern WQM piezometers are lower than the groundwater elevation in the infiltration trench groundwater level monitoring piezometer.</td></tr> <tr> <td>Acceptable</td><td></td></tr> </table>	Parameter	Threshold	Water level	Where the monthly average groundwater elevations in the southeastern WQM piezometers are lower than the groundwater elevation in the infiltration trench groundwater level monitoring piezometer.	Acceptable					
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Acceptable											

Acceptable

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# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<table border="1"> <tr> <td data-bbox="359 282 699 667"> <p>Aluminium</p> <p>Should include all of the Suite B parameters.</p> </td><td data-bbox="699 282 1347 667"> <p>a) A statistically significant <b>change</b> of more than 20% from baseline concentrations in the monitoring wells for one or more parameters; and</p> <p>b) A statistically significant upward trend in concentrations of one or more parameters recorded over the preceding 12 samples.</p> </td></tr> <tr> <td data-bbox="359 667 699 1014"> <p>Turbidity</p> </td><td data-bbox="699 667 1347 1014"> <p>a) A statistically significant <b>change</b> of more than 20% from baseline concentrations in the monitoring wells; and</p> <p>b) A statistically significant upward trend in concentrations recorded over the preceding 12 samples.</p> </td></tr> </table>	<p>Aluminium</p> <p>Should include all of the Suite B parameters.</p>	<p>a) A statistically significant <b>change</b> of more than 20% from baseline concentrations in the monitoring wells for one or more parameters; and</p> <p>b) A statistically significant upward trend in concentrations of one or more parameters recorded over the preceding 12 samples.</p>	<p>Turbidity</p>	<p>a) A statistically significant <b>change</b> of more than 20% from baseline concentrations in the monitoring wells; and</p> <p>b) A statistically significant upward trend in concentrations recorded over the preceding 12 samples.</p>
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<p>Turbidity</p>	<p>a) A statistically significant <b>change</b> of more than 20% from baseline concentrations in the monitoring wells; and</p> <p>b) A statistically significant upward trend in concentrations recorded over the preceding 12 samples.</p>				
<p>26.3</p>	<p>If the following water quality thresholds are exceeded in the <b>northwestern WQM piezometers</b>, the consent holder shall implement the water quality actions outlined in the Water Management Plan, including:</p> <ul style="list-style-type: none"> <li>• Notify West Coast Regional Council (WCRC) within five working days of receipt of the laboratory testing results.</li> <li>• Collect confirmatory samples for two consecutive days from each WQM piezometer and collect water samples from the dredge pond to be analysed for the Suite A parameters, as a minimum.</li> <li>• Evaluate water quality trends in relation to the dredge pond distance from the WQM piezometers: a positive correlation between dredge pond distance and increasing aluminium/turbidity in the WQM piezometers would signal that water quality changes relate to mine operations rather than background variability.</li> <li>• Notify the downgradient well owners and enquire whether any water quality changes have been observed. Seek permission to collect water quality samples from their supplies.</li> <li>• If the above investigations find that water quality changes in WQM piezometers relate to mining activity, develop a response plan. The response plan may include: <ul style="list-style-type: none"> <li>○ A temporary increase in the rate of groundwater abstraction from the dredge pond and water level monitoring in the dredge pond and WQM piezometers to confirm that a positive groundwater gradient towards the pond is maintained.</li> <li>○ Provision of an alternative water supply to the well owners if water sampling shows that their supply has been affected.</li> </ul> </li> </ul>				

increase.

increase.

Acceptable although this may be difficult to evaluate due to transport delay factors.

Acceptable although this may mean the need to increase water disposal to the infiltration trench

Acceptable

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

Add dissolved Mn to the list with a threshold of the greater of 0.4 mg/L and the baseline value.

	<table><tr><th>Parameter</th><th>Threshold</th></tr><tr><td>Aluminium</td><td>The greater of 0.1 mg/L and the baseline value</td></tr><tr><td>Turbidity</td><td>The greater of 5 NTU and the baseline value</td></tr></table> <div>Acceptable</div> <div>Acceptable</div>	Parameter	Threshold	Aluminium	The greater of 0.1 mg/L and the baseline value	Turbidity	The greater of 5 NTU and the baseline value
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Aluminium	The greater of 0.1 mg/L and the baseline value						
Turbidity	The greater of 5 NTU and the baseline value						
26.4	<p>Notwithstanding Condition 26.2 and 26.3, all discharges associated with the mining operations authorised under these consents must not cause any of the following effects within any receiving waterbody measured at or beyond 100 metres from any discharge:</p> <div><div><div>a) Any conspicuous oil or grease films, scums or foams, or floatable or suspended materials,</div><div>b) Any conspicuous change in the colour or visual clarity,</div><div>c) Any emission of an objectionable odour,</div><div>d) Any significant adverse effects on aquatic life, or</div><div>e) The rendering of fresh water unsuitable for consumption by farm animals.</div></div><div>Acceptable</div></div>						
26.5	Sampling required under this condition must be undertaken and analysed by suitably qualified personnel and the results supplied to the Consent Authority annually as part of the annual works programme.						
26.6	The Consent Holder must inform a Compliance Officer of the Consent Authority immediately if a breach of Consent Condition(s) takes place, or when they believe that a breach may take place.						
26.7	<p>An annual monitoring report shall be submitted to WCRC with the Annual Work Programme in accordance with Condition 5.2 for review and evaluation of compliance. The report should be prepared by a suitably qualified and experienced person and include the following information:</p> <div><div><div>1. A summary of the monitoring undertaken over the preceding 12 months. The summary will:<div><div>a. Reference the specific consent conditions under which the monitoring has been undertaken to show how the conditions have been complied with.</div><div>b. Provide tables, graphs and summary data of the water quality, flow and water level monitoring.</div></div></div><div>2. Discussion and evaluation of the monitoring data in relation to the relevant consent conditions including a summary of compliance with conditions.</div><div>3. A summary of the actions that have been undertaken in response to any action thresholds.</div></div></div>						

## Conditions to Apply to WCRC Air Discharge

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

<b>27.0 Dust Management Plan</b>	
27.1	The Consent Holder must prepare a Dust Management Plan (DMP) to avoid dust nuisance being caused by construction and mining works and to mitigate any such effect should they occur.
27.2	<p>The DMP must include details on:</p> <ul style="list-style-type: none"> <li>a) Potential sources of dust generation that may be created during the project;</li> <li>b) Sensitive receptors in the vicinity of identified potential sources of dust for targeted dust management;</li> <li>c) Dust management and mitigation methods;</li> <li>d) Dust monitoring methods;</li> <li>e) Training of staff in relation to dust management;</li> <li>f) Methods for managing dust complaints; and</li> <li>g) Compliance records.</li> </ul> <p><i>Advice Note: All Management Plans are required to adhere to the requirements in Conditions <b>Error! Reference source not found.-Error! Reference source not found..</b></i></p>
27.3	Vehicles shall not exceed 25 km/hr on site at all times to avoid dust generation.
<b>28.0 Air Quality Management and Monitoring</b>	
28.1	<p>There shall be no offensive or objectionable discharge of dust into air from the minerals extraction, processing and loading operations that results in an adverse effect beyond the legal boundary of the site.</p> <p><b>Advice note:</b> For the purpose of Condition 28.1 the Consent Authority will consider an effect that is offensive or objectionable to have occurred if an Enforcement Officer of the Consent Authority deems it so having regard to</p> <ul style="list-style-type: none"> <li>i) The frequency, intensity, duration, amount, effect and location of the suspended or particulate matter; and/or</li> <li>ii) Receipt of complaints from neighbours or the public: or</li> <li>iii) Relevant written advice or a report from an Environmental Health Officer of a territorial authority or health authority.</li> </ul>
28.2	Prior to the commencement of site preparation activities, a meteorological station must be installed at the site with instruments capable of continuously monitoring, logging in real time and reporting agreed representative meteorological data for the site.
28.3	The consent holder shall install, operate and maintain two Dust Deposition Gauges in the locations shown in the Dust Management Plan. Dust recorded in the gauges shall not exceed a value 4g/m <sup>2</sup> /30 days above background levels.

# Westland Mineral Sands Co. Ltd – Proposed Conditions of Consent

	<i>Advice note: Background levels are to be determined by data collected prior to the commencement date of this consent.</i>
28.4	If a breach of Condition 28.3 is detected, the consent holder shall notify the consent authority within two working days of the breach being detected. The consent holder shall investigate possible reasons for the breach and take all necessary steps to achieve compliance in the following 30 day period.

Conditions to Apply to WCRC Water Take Permit	
29.0 Dredge Pond Water Level Management Zone	
29.1	When mining within the Dredge Pond Water Level Management Zone, the consent holder shall abstract a net daily average of 3 litres per second from the dredge pond, and discharge this water into the infiltration trench located on the southern boundary of the site, in order to maintain a groundwater flow towards the pond.
30.0 Processing Plant Groundwater Take	
30.1	The instantaneous ground water take from the well at the processing plant shall not exceed 60 litres per second and an average rate of 38 litres per second (3,288m <sup>3</sup> per day).
30.2	The Consent Holder shall undertake monitoring of the water take at 15 minute intervals and supply this information electronically to the Consent Authority every day, or at the interval instructed in writing by the Consent Authority. <i>Advice note: the Resource Management (Measurement and Reporting of Water Takes) Amendment Regulations 2020 applies to this water take.</i>
30.3	The Consent Holder shall maintain auditable records and provide data in the format of date, time and rate that is suitable for electronic storage.
30.4	The Consent Holder shall maintain the measurement device(s) in good working order so as to maintain a measurement accuracy of within $\pm 5\%$ for a fully pressurised pipe or $\pm 10\%$ for a partially pressurised pipe. The Consent Holder shall provide the Consent Authority with initial written verification of accuracy from a suitably qualified person that the measurement device measures the volume of water taken to within $\pm 5\%$ for a fully pressurised pipe or $\pm 10\%$ for a partially pressurised pipe, and thereafter every five years for the term of the consent.
30.5	The Consent Holder shall provide the following information to the Consent Authority no later than ten working days prior to the water being taken under this consent: <ul style="list-style-type: none"> <li>a. The type of measurement device(s) used to undertake the continuous monitoring together with the manufacturer's statement for that device; and</li> <li>b. The location of the measurement device(s) in relation to the water take point(s).</li> </ul>
30.6	Upon notice to the Consent Holder the Consent Authority may require the Consent Holder to cease water abstraction for a period not exceeding 48 hours, in order to undertake monitoring of natural water flows.

Not exceeding

Acceptable

Acceptable