

## Appendix 2: CRC recommended conditions

Suggested changes are marked up – additions in **bold**, removals ~~struck out~~. Where changes are predominately administrative, they will be tracked in the condition column, but explanation may not be provided

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## CRC262543 –to disturb and to deposit material on the bed of Lake Pūkaki

Condition	CRC Comments
<p>1. The activities authorised by this consent shall be <b>associated with the rock armouring of Pūkaki Dam and</b> limited to:</p> <p>a. The excavation and disturbance of the bed of Lake Pūkaki.</p> <p>b. The deposition of aggregate and rock armouring in, on or under the bed of Lake Pūkaki.</p> <p><b>c. Establishing and decommissioning haul roads to work areas.</b></p>	<p>To clearly set out purpose of works.</p>
<p>2. The works carried out in accordance with Condition 1 shall be located at Lake Pūkaki within the area identified as ‘works area’ on Plan CRC<b>262543</b> <del>XXXXXXXX</del>, <b>which form part of this consent.</b> <del>at or about map reference NZTM 1371515E, 5103020N</del></p>	<p>CRC understands Meridian are working on develop a set of plans to be attached to this consent. To avoid duplicating of work, CRC has not generated such plans however will be available to provide feedback to Meridian upon receiving updated plans.</p> <p>Plan CRC262543 should identify the ‘two red boxes’ from Figure 1 of s53 comments.</p> <p>CRC suggests removing map references given the size of works areas, rather ensuring a detailed location plan is provided.</p>
<p>3. The works shall be undertaken in accordance with the attached design plans CRC<b>262543A</b> <del>XXXXXXXX</del> which form part of this consent.</p>	<p>CRC understands Meridian are working on develop a set of plans to be attached to this consent. To avoid duplicating of work, CRC has not generated such plans however will be available to provide feedback to Meridian upon receiving updated plans.</p>

<p>4. Before starting work, the Consent Holder shall provide a copy of this consent to staff and contractors undertaking the activities authorised by this consent and explain to them how to comply with the conditions.</p>	
<p>5. The consent holder shall ensure that:</p> <p>a. <del>Prior to commencing any works as authorised by this consent, the</del> Canterbury Regional Council, Attention: Compliance Manager, and Te Rūnanga o Ngāi Tahu (nohoanga@ngaitahu.iwi.nz), <del>shall be</del> <b>are</b> notified at least ten working days prior to the commencement of works; and</p> <p>b. Where works have been discontinued for more than eight consecutive days, the Canterbury Regional Council, <b>Attention: Compliance Manager</b> shall be re-notified at least five working days prior to the recommencement of works.</p> <p>c. Notification shall include:</p> <ul style="list-style-type: none"> <li>i. The proposed start date of the period of work;</li> <li>ii. The proposed start and end time of works on each day during the period of works; and</li> <li>iii. Where the consent is to be exercised by a person other than the consent holder, the name, address and contact telephone number of the persons exercising the consent.</li> </ul> <p><b>Advice Note:</b> Notification to CRC may be via <del>post, telephone or</del> emailing <a href="mailto:ecinfo@ecan.govt.nz">ecinfo@ecan.govt.nz</a></p>	
<p>6. Prior to the first exercise of this consent, the applicant shall establish and maintain an Erosion and Sediment Control Plan (ESCP) in accordance with the Canterbury Regional Council Erosion &amp; Sediment Control Toolbox for Canterbury, which shall:</p>	<p>Meridian have indicated in discussions that they consider the ESCP could be certified through this approval process. If this is so, then recommend this condition is replaced with the</p>

<ul style="list-style-type: none"> <li>a. Detail the erosion and sediment control measures that will be taken to ensure compliance with the conditions of this consent; and</li> <li>b. Be submitted to the Canterbury Region Council; Attention: Compliance Manager at least ten working days before works commence.</li> </ul> <p>All works shall be carried out in accordance with the Erosion and Sediment Control Plan.</p> <p><b>Advice Note:</b> <i>The Canterbury Regional Council Erosion &amp; Sediment Control Toolbox for Canterbury can be found at <a href="http://esccanterbury.co.nz/">http://esccanterbury.co.nz/</a></i></p>	<p>following. Note a title for the document is suggested as a starting point.</p> <p><b>The consent holder shall ensure all works shall be carried out in accordance with Lake Pūkaki Rock Armouring Works - Erosion and Sediment Control Plan (date to be confirmed), attached to and forming a part of this consent (the ‘Approved ESCP’).</b></p> <p>See comments on CRC262541 for discussion regarding consistent use of ESCP conditions between consents.</p>
<p>7. The ESCP may be amended at any time. Any amendments shall be:</p> <ul style="list-style-type: none"> <li>a. For the purpose of improving the efficacy of the erosion and sediment control measures and hazardous substance management, and shall not result in reduced discharge quality; and</li> <li>b. Consistent with the conditions of this resource consent; and</li> <li>c. Submitted in writing to the Canterbury Regional Council, Attention: Compliance Manager <b>for confirmation that it complies with the conditions of this consent</b> prior to any amendment being implemented.</li> <li>d. <b>The consent holder may implement any amended ESCP after 20 working days of it being submitted for certification if Canterbury Regional Council has not notified the consent holder of its decision. If Canterbury Regional Council notify the consent holder that the amended ESCP does not comply with the conditions of this consent the consent holder shall immediately (within 5 working days) revert to implementing the Approved ESCP.</b></li> </ul>	<p>Incorporating certification process loop.</p>

<p>8. a. All practicable measures shall be undertaken <b>during works</b> to minimise:</p> <ul style="list-style-type: none"> <li>i. <b>Erosion of the bed and banks of Lake Pūkaki; and</b></li> <li>ii. The discharge of sediment to Lake Pūkaki as a result of the works; <b>and</b></li> </ul> <p>b. <b>In the event of any erosion occurring to the bed or banks of Lake Pūkaki as a result of the works, the consent holder shall be responsible for rectifying the situation.</b></p>	<p>CRC acknowledges the purpose of rock armouring works is to protect the dam from erosion once established. However this condition ensures the actual works does not result in erosion.</p>
<p>9. <b>Works shall:</b></p> <ul style="list-style-type: none"> <li>a. <b>Only occur between 0600 hrs and 1930 hrs</b></li> <li>b. <b>Not occur on:</b> <ul style="list-style-type: none"> <li>i. <b>Good Friday to Easter Monday (inclusive)</b></li> <li>ii. <b>24, 25, 26 and 31 December and 1 January</b></li> <li>iii. <b>New Zealand Public Holidays observed in the Mackenzie District.</b></li> </ul> </li> </ul>	<p>Important that these restrictions be included on consent so can be easily identified when works shall or shall not be undertaken. These limits were proposed in the application at section 3.2.2.2</p>
<p>10. In the event of any disturbance of Koiwi Tangata (human bones) or Taonga (treasured artefacts), the consent holder shall immediately:</p> <ul style="list-style-type: none"> <li>a. Advise the Canterbury Regional Council of the disturbance,</li> <li>b. Advise the Upoko of Te Rūnanga o Arowhenua or their representative, and the New Zealand Historic Places Trust, of the disturbance, and</li> <li>c. Cease earthmoving operations / works in the affected area until an area has been marked off around the site, and Kaumatua and archaeologists have given the approval for the activity to commence.</li> </ul> <p><b>Note:</b> <i>This condition is in addition to any agreements that are in place between the consent holder and the Upoko Rūnanga or the New Zealand Historic Places Trust.</i></p>	<p>CRC notes only one of three Waitaki Rūnaka are listed in this condition. This may be intentional and reflective of consultation between Waitaki Rūnaka, AEC Ltd and Meridian. CRC has no objection to only one Rūnaka being listed if others are in agreement.</p>

<p>11. All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery including but not limited to:</p> <ul style="list-style-type: none"> <li>a. There shall be no storage of fuel or refuelling of vehicles and machinery within 20 metres of flowing water or water bodies.</li> <li>b. Fuel shall be stored securely or removed from the site overnight.</li> <li>c. The pump shall be attended at all times during refuelling.</li> <li>d. Drip trays shall be used at all times during refuelling.</li> <li>e. A spill response kit shall be kept on site at all times.</li> </ul>	
<p>12. To prevent the spread of pest species, including but not limited to didymo, the consent holder shall ensure that activities authorised by this consent are undertaken in accordance with Biosecurity New Zealand’s hygiene procedures and that machinery shall be free from plants and plant species before use in water.</p>	
<p>13. The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purposes of:</p> <ul style="list-style-type: none"> <li>a. Dealing with an adverse effect on the environment occurring as a result of the exercise of this resource consent; or</li> <li>b. Requiring best practicable options to be adopted by the consent holder to remove or reduce any adverse effect on the environment as a result of the exercise of this resource consent; or</li> <li>c. Requiring the consent holder to carry out monitoring and reporting instead of, or in addition to, that required by the resource consent; or</li> </ul>	

<p>d. Requiring the consent holder to comply with a relevant rule in an operative regional plan.</p>	
<p>14. If this consent is not exercised before (35 years, final date to align with duration) then it shall lapse in accordance with section 125 of the Resource Management Act 1991.</p> <p><b>Advice Note:</b> <i>A 35-year duration was sought by Meridian as part of the Fast-track process. 'Exercised' is defined as implementing any requirements to operate this consent and undertaking the activity as described in these conditions and/or application documents.</i></p>	

## CRC262540 – to take, use, dam or divert water for hydroelectricity generation

Condition	CRC Comments
<p><b>(New condition 1)</b></p> <p><b>The consent holder may operate Lake Pūkaki below 518.0 m RL while taking, using, damming or diverting water in accordance with resource consents CRC905321.7 and CRC185833 or any subsequent replacements thereof.</b></p> <p><i>Advice note: this consent provides for the operation of Lake Pūkaki below 518.0 m RL outside of the scenarios provided for in resource consent CRC905321.7 or CRC185833 or any subsequent replacements thereof, and outside of the permitted activity provided for in Table 4 and Rule 17 of the Waitaki Catchment Water Allocation Regional Plan.</i></p> <p><b>CONSENT TYPE:</b> Section 14 Consent – to take, use, dam or divert water for hydroelectricity generation (Operation of Lake Pūkaki below 518 m)</p>	<p>Have recommended this condition to set the scope of this consent. Linking to the existing consents for operation of Lake Pūkaki which provide for rates/volumes and other restrictions of operation.</p> <p>Make clear that it provides for lowering lake when shortage of supplies etc are NOT in action – i.e. not when covered by PA rule.</p> <p>Have included existing consents that are subject to s124 continuation. Applicable consent to be issued when Environment Court decision is released will be CRC240441.</p> <p>Note CRC has not included subsequent renumbering following new condition (1) and (2)</p>
<p><b>New condition 2</b></p> <p><b>At any time the consent holder is exercising this resource consent; the consent holder must ensure compliance with all conditions of CRC905321.7 and CRC185133; with the exception of conditions relating to lake level.</b></p>	<p>Purpose of this condition is to make it clear that this proposal relates to eased access only and that all other conditions of consents associated with operation of Lake Pūkaki remain applicable.</p> <p>Have included existing consents that are subject to s124 continuation. Applicable consent to be issued when Environment Court decision is released will be CRC240441.</p>

<p>1. The consent holder must advise Canterbury Regional Council attention: Manager Compliance, Te Rūnanga o Moeraki, Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao <b>as soon as practicable</b> when reducing lake levels reach 519.0 m RL, i.e. before Lake Pūkaki is reduced below the <del>Normal Consented</del> Minimum Lake Level of 518.0 m RL <b>provided for under resource consent CRC905321.7, or any subsequent replacement thereof.</b></p>	
<p>2. During any period within which the level of Lake Pūkaki is below 518 m RL, the consent holder must advise Canterbury Regional Council attention: Manager Compliance, Te Rūnanga o Moeraki, Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao weekly of:</p> <ul style="list-style-type: none"> <li>a. the strategies adopted to restore Lake Pūkaki to the Normal Consented Minimum Lake Level of 518 m RL; and</li> <li>b. the lake level at the end of each reporting week;</li> <li>c. the estimated timeframe for returning Lake Pūkaki to the Normal Consented Minimum Lake Level;</li> <li>d. the measures adopted to mitigate adverse effects of operating the lake below the Normal Consented Minimum Lake Level, including effects on cultural values and mahinga kai.</li> </ul>	
<p>3. During periods when Lake Pūkaki is operated below 518 m RL, the consent holder shall measure and record the lake water levels, relative to mean sea level (Lyttelton datum), at a frequency not less than every 60 minutes, to the satisfaction of the Canterbury Regional Council, and shall supply the records to Canterbury Regional Council attention: Manager Compliance , Te Rūnanga o Moeraki, Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao monthly.</p>	<p>Appreciate the intent of the applicant relating to inclusion of conditions issued by the Court. However have included the set of conditions below which were agreed by all parties at Environment Court – should the timing of the decision be delayed (or the decision is appealed).</p>

<p>Note: The intent is to update this consent condition so that it aligns with Meridians water level monitoring obligations under its operational consents. These consents are currently before the Environment Court with a decision expected in late April 2026. We will update this condition once that decision is released.</p>	<p>Clause (g) has been added to provide for sharing of information to Waitaki Runaka, consistent with proposed condition (3).</p> <ul style="list-style-type: none"> <li><b>a. The consent holder must measure and record for the purpose of compliance the lake water levels of Lake Pūkaki, measured at or about map reference NZTM 1372021,5103235 (Lake Pūkaki Control Structure), at a frequency not greater than every 60 minutes to within an instrument resolution of <math>\pm 3</math> mm of the actual lake level.</b></li> <li><b>b. Lake level compliance shall be determined as a 60-minute fixed interval average in relation to mean sea level (Lyttelton datum) (amsl).</b></li> <li><b>c. The recording device shall be connected to a telemetry system which collects and stores all of the data continuously. The consent holder must provide the records at 5 minute intervals, electronically, to the Canterbury Regional Council, Attention: Regional Leader Compliance Monitoring, that cover:</b> <ul style="list-style-type: none"> <li><b>i. each day, no later than the end of the next day; and</b></li> <li><b>ii. each water year (1 July - 30 June), no later than one month after the end of that water year.</b></li> </ul> </li> </ul>
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	<ul style="list-style-type: none"> <li><b>d. No data in the recording device(s) shall be deliberately changed or deleted.</b></li> <li><b>e. The consent holder must supply the lake level measurement records to Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager at least annually and at any time on request by the Council.</b></li> <li><b>f. Notwithstanding a above, any existing lake measurement device that does not meet the instrument resolution must be upgraded to achieve a. above within 24 months of the commencement of consent. Until any upgrading is completed measurement for the purpose of compliance is to occur based on the best instrument resolution available.</b></li> <li><b>g. The consent holder shall supply the records to, Te Rūnanga o Moeraki, Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao monthly.</b></li> </ul>
<p>4. On each occasion that the consent holder implements this consent to manage Lake Pūkaki below 518 m RL, the consent holder must, no later than eight weeks following the completion of each lowering event, provide Canterbury Regional Council attention: Manager Compliance, Te Rūnanga o Moeraki, Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao with the following information:</p> <ul style="list-style-type: none"> <li>a. the date and time at which the lake was lowered below 518 m RL;</li> </ul>	

<ul style="list-style-type: none"> <li>b. the levels at which the Lake Pūkaki was managed over the duration of the lowering event;</li> <li>c. the duration of the lowering event;</li> <li>d. a written description of the circumstances leading to and applying during the lowering event;</li> <li>e. a written description of the measures adopted to mitigate adverse effects of operating the lake below the Normal Consented Minimum Lake Level, including effects on cultural values and mahinga kai.</li> </ul>	
<p>5. If the information provided in condition 4 indicates that the timing, duration, frequency and extent of any lowering event is different to what was predicted in the resource consent application, then the consent holder shall provide a detailed explanation of the differences and the circumstances of their occurrence to the Canterbury Regional Council, attention: Manager Compliance within 3 months of the lowering event.</p>	<p>Reference to condition 4 will need updating should the Panel agree the recommended new conditions at the top of this set are required.</p>
<p>6. The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purposes of:</p> <ul style="list-style-type: none"> <li>a. Dealing with an adverse effect on the environment occurring as a result of the exercise of this resource consent; or</li> <li>b. Requiring best practicable options to be adopted by the consent holder to remove or reduce any adverse effect on the environment as a result of the exercise of this resource consent; or</li> <li>c. Requiring the consent holder to carry out monitoring and reporting instead of, or in addition to, that required by the resource consent; or</li> </ul>	

<p>d. Requiring the consent holder to comply with a relevant rule in an operative regional plan.</p>	
<p><b>7. <u>Kakī monitoring programme.</u></b></p> <p>a. <b>When lake level drops below 518 m RL, the consent holder shall undertake regular monitoring of the response of kakī to changing lake levels.</b></p> <p>b. <b>The focus of the monitoring shall be focused on the Tasman Delta. Should kakī leave the Tasman Delta or margins of Lake Pūkaki monitoring shall include locations moved to and duration Kakī stay in the new location.</b></p> <p>c. <b>The monitoring described in this condition shall continue until lake levels have returned to above 518 m RL.</b></p> <p>d. <b>Results of the monitoring programme shall be provided to Canterbury Regional Council within 8 weeks of Lake Pūkaki returning to above 518 m RL.</b></p>	<p>Should Meridian and/or the Panel consider the following three conditions are appropriate to include as conditions of consent, suggest reordering the conditions so these sit within the main condition set rather than after review clauses. Have just left at end so additional recommended conditions are grouped together.</p> <p>As recommended by Dr Jack</p> <p>CRC note that Meridian has advised it is in the process of drafting a consent condition that would mirror the requirements of the DOC agreement regarding a monitoring programme for Kakī. Currently no condition has been proffered or reviewed at the date of submitting comments as such this condition has been drafted to set the intent of what CRC would expect Meridian’s condition to detail.</p>
<p><b>8. <u>Threatened and at risk flora monitoring programme.</u></b></p> <p>a. <b>When lake level drops below 518 m RL, the consent holder shall undertake regular monitoring of the response of threatened and at risk flora species located in the Tasman Delta, to changing lake levels.</b></p>	<p>As recommended by Dr Jack in Appendix 5. Given uncertainties relating to extent of effects on the Tasman Delta, CRC considers such monitoring appropriate.</p>

<ul style="list-style-type: none"> <li>b. <b>The consent holder shall identify representative transects across the Tasman Delta above the water line when lake is at 518 m RL, and record details of species present within those transects.</b></li> <li>c. <b>The monitoring described in this condition shall continue for a period of four months after lake levels have returned to above 518 m RL.</b></li> <li>d. <b>Results of the monitoring programme shall be provided to Canterbury Regional Council within 6 months of Lake Pūkaki returning to above 518 m RL.</b></li> </ul>	
<p><b>9. <u>Gabion Rock Wall Inspections</u></b></p> <p><b>The consent holder shall inspect the nature of rip-rap adjacent to the gabion rock wall located at SH80 Mount Cook Road (SH 80 RS 17 RP 12.64 – 12.7).</b></p> <ul style="list-style-type: none"> <li>a. <b>Inspections shall be undertaken weekly at any time Lake Pūkaki falls below 518m RL.</b></li> <li>b. <b>Where erosion of the rip-rap is observed, the consent holder shall be responsible for rectifying the situation.</b></li> <li>c. <b>The consent holder shall provide a record of inspections, findings and how any erosion was rectified within 8 weeks of Lake Pūkaki returning to 518m RL.</b></li> </ul>	<p>As discussed in s53 comments</p>
<p><b>10. <u>Management of dust</u></b></p> <p><b>The Consent Holder must produce and comply with a Dust Management Plan at all times.</b></p>	<p>Meridian have advised (pers comm) that the inclusion of a DMP requiring communication for example with adjacent landowners is being considered.</p>

<p><b>The purpose of the Dust Management Plan is to provide a framework for managing dust emissions from the exposure of fine sediment on the lake bed resulting from lowering level of Lake Pūkaki down to 513m RL</b></p> <p><b>a. The Dust Management Plan shall:</b></p> <ul style="list-style-type: none"> <li><b>i. Be prepared in accordance with Schedule 2 of the Canterbury Air Regional Plan; and</b></li> <li><b>ii. Be retained at a location accessible to Meridian Energy Staff in proximity to Lake Pūkaki; and</b></li> <li><b>iii. Be provided to all persons operating or carrying out the activities authorised by this resource consent; and</b></li> <li><b>iv. Be prepared by a suitably qualified experienced practitioner in air quality; and</b></li> <li><b>v. Include details on how the conditions of this resource consent will be complied with.</b></li> </ul> <p><b>b. The Dust Management Plan shall include, but not be limited to:</b></p> <ul style="list-style-type: none"> <li><b>i. A description of the site location and the receiving environment; and</b></li> <li><b>ii. A system for training employees and contractors to make them aware of the requirements relating to dust mitigation and the conditions of this resource consent; and</b></li> <li><b>iii. Identifying staff responsibilities for implementing and reviewing the Dust Management Procedures; and</b></li> <li><b>iv. A description of the weather conditions that may aggravate discharge of dust beyond property boundaries.</b></li> </ul>	<p>CRC notes no such conditions are proposed to date. Further there is the potential for dust to extend beyond the margins of Lake Pūkaki.</p> <p>As noted in body of s53 comments, CRC is unable to anticipate detailed solutions suggested by other s53 invited parties. However should the Panel consider further mitigation is appropriate, the minimum requirements of the DMP could be extended for these further mitigations.</p> <p>While CRC has provided comments on DMP conditions, refer to Appendix 6a for further areas that may need to be developed in order to alleviate some of the uncertainties CRC experts have.</p>
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<ul style="list-style-type: none"> <li>v. Details of adjacent properties and the sensitivity of those properties to dust.</li> <li>vi. A communication plan to advise adjoining properties of potential increases in dust.</li> <li>vii. Procedures, processes and methods for managing dust when staff are not on site.</li> </ul> <p><i>Advice Note: If water is required for dust suppression, water will be brought to site in water trucks. This will be the responsibility of the contractor. Other consents held by Meridian Energy Ltd do not provide for this use.</i></p>	
<p><b>11. Before first exercise of this resource consent, the consent holder must provide a copy of their proposed Dust Management Plan shall be submitted to Canterbury Regional Council attention: Manager Compliance for confirmation that it complies with the conditions of this consent (the Approved Dust Management Plan). If no response from Canterbury Regional Council is provided within 20 working days of submitting the Plan for certification the consent holder shall proceed as if the Plan has been Approved.</b></p>	
<p><b>12. The Dust Management Plan may be amended by the consent holder provided such amendments are consistent with the objective of minimising any effects of dust discharges on the surrounding environment. An amended Dust Management Plan shall be submitted to Canterbury Regional Council attention: Manager Compliance for confirmation that it complies with the conditions of this consent.</b></p>	

<p><b>13. The consent holder may implement any amended Dust Management Plan after 20 working days of it being submitted for certification if Canterbury Regional Council has not notified the consent holder of its decision. If Canterbury Regional Council notify the consent holder that the amended Dust Management Plan does not comply with the conditions of this consent the consent holder shall immediately (within 5 working days) revert to implementing the Approved Dust Management Plan.</b></p>	
<p><b>COMPLAINTS</b></p>	
<p><b>14. A record of all complaints relating to dust discharged from the margins or exposed bed of Lake Pūkaki must be maintained and shall include:</b></p> <ul style="list-style-type: none"> <li><b>a. The location where the dust was detected by the complainant; and</b></li> <li><b>b. The date and time when the dust was detected; and</b></li> <li><b>c. A description of the wind speed and wind direction when the dust was detected by the complainant; and</b></li> <li><b>d. The most likely cause of the dust detected; and</b></li> <li><b>e. Any corrective actions undertaken by the Consent Holder to avoid, remedy, or mitigate the effects of the dust detected by the complainant.</b></li> </ul>	

## CRC262541 - Discharge of Contaminants to Land or Water

Conditions	CRC Comments
<p>1. This consent authorises the discharge of contaminants (including sediment-laden water, dust deposition, and incidental hydrocarbon discharges) to land and water arising from civil works and associated with dam protection works at Lake Pūkaki, between 510.5 and 518.0 mRL.</p>	
<p>2. <del>The works carried out</del> discharges described in <del>accordance with</del> Condition 1 shall be located at Lake Pūkaki within the area identified as ‘works area’ on Plan CRC262541 <del>XXXXXXXXXXXX</del> at or about map reference NZTM 1371515E, 5103020N</p>	<p>See comments for other consents relating to the creation of Plans</p>
<p>3. Construction sequencing and staging shall occur in general accordance with Section 9.6 of the Rip-rap design and construction methodology report.</p>	<p>The reference to section 9.6 is unclear. Recommend Meridian provide more detail about this document in the condition (Section 9.6 of the application? Date of the report).            Could instead describe the sequencing and staging:</p> <ul style="list-style-type: none"> <li>a. <b>Tranche 1 – Main Dam (rip-rap placement 518.6 m RL to 514.5 m RL)</b> <ul style="list-style-type: none"> <li>i. Establish a key toe at 513.0 m RL</li> <li>ii.</li> </ul> </li> <li>b. <b>Tranche 1 – left and right abutment (rip-rap placement 517.0 m RL to 513.0 m RL)</b></li> <li>c. <b>Tranche 2 – Main Dam (rip-rap placement 513.0 m RL to 510.5 m RL)</b></li> <li>d. <b>Tranche 2 – Abutments (rip-rap placement 513.0 m RL to 510.5 m RL)</b></li> </ul>
<p>4. All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery including but not limited to:</p>	

<ul style="list-style-type: none"> <li>a. There shall be no storage of fuel or refuelling of vehicles and machinery within 20 metres of flowing water or water bodies.</li> <li>b. Fuel shall be stored securely or removed from the site overnight.</li> <li>c. The pump shall be attended at all times during refuelling.</li> <li>d. Drip trays shall be used at all times during refuelling.</li> <li>e. A spill response kit shall be kept on site at all times.</li> </ul>	
<p>5. Environment Canterbury shall be notified at least ten working days:</p> <ul style="list-style-type: none"> <li>a. Prior to commencement of works, and</li> <li>b. Prior to the re-commencement of works, where works have been discontinued for more than <del>14</del> 8 days.</li> <li>c. Notification shall include <ul style="list-style-type: none"> <li>i. Consent number</li> <li>ii. Proposed start and end dates</li> <li>iii. Name, address and contact telephone number of the person supervising the works</li> </ul> </li> </ul>	<p>Recommend discontinued/restarted works notification be 8 days for this consent so consisted dates across the project.</p>
<p>6. Before discharging, the Consent Holder shall provide a copy of this consent to staff and contractors undertaking the activities authorised by this consent and explain to them how to comply with the conditions.</p>	
<p>7. <b>Prior to the first exercise of this consent, the applicant shall establish and maintain an Erosion and Sediment Control Plan (ESCP) in accordance with the Canterbury Regional Council Erosion &amp; Sediment Control Toolbox for Canterbury.</b> <del>which shall</del> The objective of the ESCP is to set out the measures to be implemented during construction to minimise as far as reasonably practicable the erosion and the discharge of sediment and other contaminants into Lake Pūkaki and the Pūkaki Riverbed.</p> <ul style="list-style-type: none"> <li>a. The ESCP shall include but not be limited to the following information as appropriate to the scale, location and type of earthworks: <ul style="list-style-type: none"> <li>i. contour information</li> <li>ii. erosion and sediment controls including specific design location, dimensions and capacity</li> </ul> </li> </ul>	<p>Note that the proposed ESCP conditions on this consent differ to those proposed for CRC26253. Recommend that the same conditions are used on both s13 RMA and s15 RMA consents to ensure alignment. Suggest this may be the more appropriate set given more detailed.</p>

<ul style="list-style-type: none"> <li>iii. details of measures to control sediment runoff, dust and the removal of soil, debris and other materials from public roads or places.</li> <li>iv. catchment boundaries for the sediment controls</li> <li>v. discharge locations for each catchment/sediment control device</li> <li>vi. details of measures for managing any contaminated land</li> <li>vii. details of construction methods to be employed including timing and duration</li> <li>viii. identification of the suitably qualified persons to manage the erosion and sediment controls</li> <li>ix. maintenance requirements</li> <li>x. reinstatement provisions</li> <li>xi. <b>provision for monitoring of any discharges including triggers that may warrant further management responses.</b></li> </ul> <p>b. All practicable measures to be undertaken to prevent the spill of fuel, hydraulic fluid, or other potential liquid contaminants, including but not limited to requirements that:</p> <ul style="list-style-type: none"> <li>i. No fuel may be stored, or vehicles or machinery refuelled within 20 metres of the lake or flowing water.</li> <li>ii. Where refuelling cannot be undertaken more than 20 metres from the lake, appropriate controls shall be put in place to avoid potential spills while refuelling.</li> <li>iii. Fuel, hydraulic fluid and other potential liquid contaminants shall be stored securely or removed from site overnight.</li> </ul> <p><b>Advice Note:</b> The Canterbury Regional Council Erosion &amp; Sediment Control Toolbox for Canterbury can be found at <a href="http://esccanterbury.co.nz/">http://esccanterbury.co.nz/</a></p>	
<p>8. <b>Before first exercise of this resource consent, the consent holder must provide a copy of their proposed ECSP shall be submitted to Canterbury Regional Council attention: Manager Compliance for confirmation that it complies with the conditions of this consent (the Approved ECSP). If no response from Canterbury Regional Council is provided within 20 working</b></p>	<p>It is unclear if Meridian intends for the draft ECSP to be certified by the Panel, or if they wish for this to be done before works commence.</p>

<p><b>days of submitting the Plan for certification the consent holder shall proceed as if the Plan has been Approved.</b></p>	<p>If the ECSP provided with the application is to be approved by the Panel, an alternative condition should be used:</p> <p><b>Works shall be undertaken in accordance with ECSP dated XXX, attached to and forming a part of this consent.</b></p>
<p>9. The ESCP may be amended and changed by the consent holder provided such amendments are consistent with the objective of minimising any effects of sediment or construction on the lake environment. An amended ESCP shall be submitted to Canterbury Regional Council attention: Manager Compliance for confirmation that it complies with the conditions of this consent.</p>	
<p>10. The consent holder may implement any amended ESCP after 20 working days of it being submitted for certification if Canterbury Regional council has not notified the consent holder of its decision. If Canterbury Regional Council notify the consent holder that the amended ESCP does not comply with the conditions of this consent the consent holder shall immediately revert (within 5 working days) to implementing the Approved ESCP.</p>	
<p>11. When discharging in and adjacent to water, the consent holder shall, in accordance with the Erosion and Sediment Control Plan (ESCP), ensure that sediment losses to natural water are minimised where practicable and that silt control measures are in place.</p>	<p>Reordering of conditions</p>
<p>12. During the period of the discharges, erosion and sediment controls shall be implemented to mitigate sedimentation effects associated with the construction of the rock armouring in accordance with the ESCP approved as the part of the grant of this consent.</p>	<p>Reordering of conditions</p>
<p>13. In the event the lake is forecast to rise above the works level, and where works remain incomplete, the consent holder shall ensure that work areas within the predicted area of inundation are rehabilitated to minimise any loss of material.</p>	
<p>14. Within 14 days of the final completion of rock armouring activities at the site:</p> <p>a. All temporary deposits of gravel, sand and other natural material (including reject material) shall be levelled to the natural ground level or removed from site.</p>	

<ul style="list-style-type: none"> <li>b. All created access ramps will be removed, and the area shall be reshaped and formed to a state consistent with the surrounding dam.</li> <li>c. Any temporary structures and construction materials shall be removed.</li> <li>d. Re-grassing of any remaining areas of bare ground to match the surrounding existing land.</li> <li>e. Rock stockpile areas may be retained for other necessary maintenance works associated with other aspects of the Lake Pūkaki and related engineering structures.</li> </ul>	
<p>15. In the event that any contaminated soil or material is uncovered by the works that has not been already identified, a contamination discovery protocol must be implemented, including but not limited to the following steps:</p> <ul style="list-style-type: none"> <li>a. Earthworks within ten metres of discovered contaminant soil or material must cease immediately;</li> <li>b. All practicable steps must be taken to prevent the contaminated material becoming entrained in stormwater. Immediate steps must include, where practicable: <ul style="list-style-type: none"> <li>i. Diverting any stormwater runoff from surrounding areas away from the contaminated material; and</li> <li>ii. Minimising the exposure of the contaminated material, including covering the contaminants with an impervious cover;</li> </ul> </li> <li>c. Notification of the Canterbury Regional Council, Attention: Contaminated Sites Manager, within 24 hours of the discovery;</li> <li>d. Earthworks within ten metres of discovered contaminant soil or material must not recommence until a suitably qualified and experienced contaminated land practitioner (SQEP) confirms to Canterbury Regional Council, Attention: Compliance Manager, that continuing works does not represent a significant risk to the environment;</li> <li>e. All records and documentation associated with the discovery must be kept and copies must be provided to the Canterbury Regional Council upon request.</li> </ul>	

<p>16. Any material removed from the site during the works that is potentially or confirmed as contaminated, must be disposed of at a facility authorised to receive such material.</p>	
<p>17. The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purposes of:</p> <ul style="list-style-type: none"> <li>a. Dealing with an adverse effect on the environment occurring as a result of the exercise of this resource consent; or</li> <li>b. Requiring best practicable options to be adopted by the consent holder to remove or reduce any adverse effect on the environment as a result of the exercise of this resource consent; or</li> <li>c. Requiring the consent holder to carry out monitoring and reporting instead of, or in addition to, that required by the resource consent; or</li> <li>d. Requiring the consent holder to comply with a relevant rule in an operative regional plan.</li> </ul>	
<p>e. If this consent is not exercised before (35 years – final date to align with duration) then it shall lapse in accordance with section 125 of the Resource Management Act 1991.</p> <p><b>Advice Note:</b> A 35-year duration was sought by Meridian as part of the Fast-track process. ‘Exercised’ is defined as implementing any requirements to operate this consent and undertaking the activity as described in these conditions and/or application documents.</p>	

## CRC262542 – Discharge of Contaminants to Air

Conditions	CRC Comments
<p>1. The discharge of contaminants to air shall be limited to matter arising from the following activities <b>associated with the rock armouring of Pūkaki Dam:</b></p> <p><u>Rock Armouring</u></p> <ul style="list-style-type: none"> <li>a. Constructing access tracks and ramps.</li> <li>b. Transporting rock from the existing stockpile sites to the temporary construction stockpile areas.</li> <li>c. Constructing work benches.</li> <li>d. Constructing toe/key along High Dam.</li> <li>e. Rock placement on High Dam.</li> <li>f. Rock placement on abutments.</li> <li>g. <b>Establishment of temporary building within main carpark area.</b></li> <li>h. Decommission of <b>all temporary work sites</b> .</li> <li>i. Maintenance/management of temporary stockpiles within the construction area.</li> </ul> <p>At and about XXXXXXXXXXXX (add site details) and <b>shown on Pplan reference CRC262542</b>, attached to and forming part of this resource consent.</p>	<p>Meridian have advised they are in the process of collating Plans for each resource consent. As such, CRC has not duplicated this work stream however note that at time of preparing this advice no updated Plans had been received. CRC will continue to work with Meridian on developing a set of Plans both parties consider appropriate.</p>

<p>2. <b>The discharge to air authorised by condition (1) shall not cause objectionable or nuisance deposits and/or discharges of particulate matter beyond the boundary of the application site.</b></p>	<p>This condition is commonly included on air discharge consents issued by Canterbury Regional Council.</p>
<p>3. The Site Manager, or another nominated person, must be available at all times during rock armouring activities to respond to dust emissions complaints and issues. The contact details shall be displayed on signage at the entrance to the main carpark (being the carpark that services the public toilets, visitor centre and salmon shop at NZTM 1371515E, 5103020N).</p>	
<p>4. The consent holder must notify Te Rūnanga o Ngāi Tahu (<a href="mailto:nohoanga@ngaitahu.iwi.nz">nohoanga@ngaitahu.iwi.nz</a>) <b>and Canterbury Regional Council attention: Manager Compliance:</b></p> <ul style="list-style-type: none"> <li>a. at least ten working days before the start of any activities listed in condition one.</li> <li>b. Notification shall include: <ul style="list-style-type: none"> <li>i. The proposed start and end dates of the period of work;</li> <li>ii. The proposed start and end time of activity on each day during the period of works; and</li> </ul> </li> <li>c. Where the consent is to be exercised by a person other than the consent holder, the name, address and contact telephone number of the persons exercising the consent.</li> <li>d. If the consent holder is considering closing the campsite and campervan parking area as a result of dust generation authorised by this consent. Any decisions to close the campsite shall be undertaken in consultation with Te Rūnanga o Ngāi Tahu Nohoanga Team.</li> </ul>	<p>Slight formatting change which isn't tracked relates to making the sentence 'notification shall include' clause (b) and subsequent renumbering.</p>

<p><b>e. Where works have been discontinued for more than eight consecutive days, the Canterbury Regional Council, Attention: Compliance Manager shall be re-notified at least five working days prior to the recommencement of works.</b></p>	
<p><b>DUST MANAGEMENT PLAN</b></p>	
<p>4. The Consent Holder must produce and comply with a Dust Management Plan at all times.</p>	
<p>5. The purpose of the Dust Management Plan is to provide a framework for managing dust emissions from the activities authorised under Condition (1a-1i) of this resource consent.</p> <p>a. The Dust Management Plan shall:</p> <ul style="list-style-type: none"> <li>i. Be prepared in accordance with Schedule 2 of the Canterbury Air Regional Plan; and</li> <li>ii. Be retained on site at all times; and</li> <li>iii. Be provided to all persons operating or carrying out the activities authorised by this resource consent; and</li> <li>iv. Be prepared by a suitably qualified experienced practitioner in air quality; and</li> <li>v. Include details on how the conditions of this resource consent will be complied with.</li> </ul> <p>b. The Dust Management Plan shall include, but not be limited to:</p>	<p>Recommend requirement for location and installation of onsite anemometer(s) so that wind conditions can be determined at key locations as triggers for management responses. Many of the DMP conditions relate to wind/weather and so live data is required.</p> <p>Recommended (5)(b)(vi) in response to concerns raised in Appendix 6a to these s53 comments.</p> <p>While CRC has provided comments on DMP conditions, refer to Appendix 6a for further areas that may need to be developed in order to alleviate some of the uncertainties CRC experts have.</p>

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| <ul style="list-style-type: none"> <li>i. A description of the site location and the receiving environment; and</li> <li>ii. A system for training employees and contractors to make them aware of the requirements relating to dust mitigation and the conditions of this resource consent; and</li> <li>iii. Identifying staff responsibilities for implementing and reviewing the Dust Management Procedures; and</li> <li>iv. A description of all on-site activities as described in Condition (1a-1i) and dust sources on site; and</li> <li>v. A description of the weather conditions that trigger the requirement for dust suppression activities; and</li> <li>vi. <b>Details of location(s) of and appropriate installation of onsite anemometer(s); and</b></li> <li>vii. The methods to be used for controlling dust at each source during on-site activities, and</li> <li>viii. A description of the methods for the use of water for dust suppression on all exposed areas on dry and/or windy days (in accordance with the weather criteria identified in condition <b>5(b)(v) 6(e)</b>, including how and when water will be applied to maintain damp surfaces; and</li> <li>ix. The frequency and triggers of when water will be used to maintain damp surfaces, and when these measures are to commence on dry and/or windy days in accordance with the weather criteria identified in condition <b>5(b)(v) 6(e)</b>; and</li> </ul> |  |
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<ul style="list-style-type: none"> <li>x. A description of the contingency measures to be used on-site; and</li> <li>xi. Procedures, processes and methods for managing dust when staff are not on site.</li> <li>xii. <b>Procedures to be undertaken to ensure dust is managed during times when works may be delayed for an extended period of time.</b></li> </ul> <p><b>Advice Note:</b> <i>If water is required for dust suppression, water will be brought to site in water trucks. This will be the responsibility of the contractor. Other consents held by Meridian Energy Ltd do not provide for this use.</i></p>	
<p>6. <b>Before first exercise of this resource consent, the consent holder must provide a copy of their proposed Dust Management Plan to Canterbury Regional Council attention: Manager Compliance for confirmation that it complies with the conditions of this consent (the Approved Dust Management Plan). If no response from Canterbury Regional Council is provided within 20 working days of submitting the Plan for certification the consent holder shall proceed as if the Plan has been Approved.</b></p>	<p>It would be beneficial for Meridian to indicate if it intends for the draft DMP to be certified by the Panel, or if it wishes for this to be done before works commence.</p> <p>If the DMP provided with the application is to be approved by the Panel, an alternative condition should be used:</p> <p><b>Works shall be undertaken in accordance with Dust Management Plan dated XXX, attached to and forming a part of this consent.</b></p>
<p>7. The Dust Management Plan may be amended by the consent holder provided such amendments are consistent with the objective of minimising any effects of dust discharges on the surrounding environment. An amended Dust Management Plan shall be submitted to Canterbury Regional Council attention: Manager Compliance for confirmation that it complies with the conditions of this consent.</p>	

<p>8. The consent holder may implement any amended Dust Management Plan after 20 working days of it being submitted for certification if Canterbury Regional Council has not notified the consent holder of its decision. If Canterbury Regional Council notify the consent holder that the amended Dust Management Plan does not comply with the conditions of this consent the consent holder shall immediately (within 5 working days) revert to implementing the Approved Dust Management Plan.</p>	
<p><b>DUST MITIGATION</b></p>	
<p>9. The Consent Holder must utilise all reasonably practicable measures to minimise the discharge of dust from rock armouring activities on-site:</p> <ul style="list-style-type: none"> <li>a. On dry days and/or windy days in accordance with the weather criteria identified in condition <b>5(b)(v)</b> <del>6(e)</del> above; and</li> <li>b. When there is any visible emission of dust from the site.</li> </ul>	<p>Have updated with condition believe this links to. If having a condition relating to windy days then windspeed that would trigger this condition is required. Further an onsite anemometer is required.</p>
<p><b>COMPLAINTS</b></p>	
<p>10. A record of all complaints relating to dust discharged to air from the site and associated activities must be maintained and shall include:</p> <ul style="list-style-type: none"> <li>f. The location where the dust was detected by the complainant; and</li> <li>g. The date and time when the dust was detected; and</li> <li>h. A description of the wind speed and wind direction when the dust was detected by the complainant; and</li> <li>i. The most likely cause of the dust detected; and</li> </ul>	

<p>j. Any corrective actions undertaken by the Consent Holder to avoid, remedy, or mitigate the effects of the dust detected by the complainant.</p>	
<p>11. The Consent Holder must maintain a record of any complaints and any responses or investigative actions taken as a result. This record shall be provided to the <del>ERC</del> <b>Canterbury Regional Council, Attention: Compliance Manager</b> <del>Regional Leader – Compliance Monitoring</del>, upon request.</p>	
<p><b>ANNUAL REPORT</b></p>	
<p>12. The Consent Holder shall prepare an annual monitoring report for the period of 1 July to 30 June to the CRC, Attention: Regional Leader Compliance Monitoring, by 30 September each year that the consent is exercised (i.e. if there have been no rock armouring activities over the 12-month period no report is required).</p>	
<p>13. The annual monitoring report shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>a. A record of any periods when the lake was lowered below 518 m RL, including the dates and duration of the event.</li> <li>b. <b>A record of dates when works were undertaken.</b></li> <li>c. The complaints record required in accordance with Condition (9).</li> </ul>	
<p><b>ADMINISTRATION</b></p>	
<p>14. The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purposes of:</p> <ul style="list-style-type: none"> <li>a. Dealing with an adverse effect on the environment occurring as a result of the exercise of this resource consent; or</li> </ul>	

<ul style="list-style-type: none"> <li>b. Requiring best practicable options to be adopted by the consent holder to remove or reduce any adverse effect on the environment as a result of the exercise of this resource consent; or</li> <li>c. Requiring the consent holder to carry out monitoring and reporting instead of, or in addition to, that required by the resource consent; or</li> <li>d. Requiring the consent holder to comply with a relevant rule in an operative regional plan.</li> </ul>	
<p>15. If this consent is not exercised within <del>35</del> <i>XX (align with duration)</i> years of the date of grant of consent, it shall lapse in accordance with Section 125 of the Resource Management Act 1991.</p> <p><b>Advice Note:</b> <i>'Exercise of this resource consent' is defined as undertaking the activity as described in these conditions.</i></p>	