

**CRC182536: For a non-consumptive take of up to 5 cumecs of water from the Rangitata River associated with the operation of a fish screen;**

1	<p>Water diverted from the Rangitata River <u>at surface water abstraction point SWAP J36/0020 (at or about map reference NZTM2000: 1457979mE 5152788mN)</u> shall:</p> <ol style="list-style-type: none"> <li>Not exceed a diversion rate of 5 m<sup>3</sup>/s;</li> <li>Be diverted for the purposes of operating a fish bypass at or about map reference NZTM2000: 1458480 mE 5151553 mN <del>map-reference</del>; and</li> <li>Be discharged in accordance with consent CRC182535 or any subsequent replacement.</li> </ol>
1A	<p><u>The Proposal shall be constructed, operated and maintained in accordance with the details contained within the following documents:</u></p> <ol style="list-style-type: none"> <li><u>The Assessment of Environmental Effects report prepared by Ryder Consulting Limited in July 2016 and entitled "Lake Klondyke: A Proposed Water Storage Facility, Assessment of Environmental Effects Report &amp; Resource Consent Application, Prepared for the Rangitata Diversion Race Management Limited, Date Finalised: July 2016"; and</u></li> <li><u>The Assessment of Environmental Effects report prepared by Ryder Consulting Limited in November 2017 and entitled "Proposed Rangitata Diversion Race Fish Screen and Supplementary Matters Resource Consent Application".</u></li> </ol> <p><u>except where modified by specific conditions set out in these resource consents or by the plans authorised by the building consent for the Proposal.</u></p>
2	<p><u>Whenever water is being taken into the RDR, 5m<sup>3</sup>/s of water shall be taken for operation of the bypass, unless</u></p> <ol style="list-style-type: none"> <li><u>a lesser volume of water is being taken for the purposes of testing operation or the bypass in accordance with conditions 9A and 10 of CRC182542, or</u></li> <li><u>monitoring undertaken in accordance with conditions 9A and 10 of CRC182542 demonstrate, to the satisfaction of the Canterbury Regional Council, effectiveness of the fish bypass in attracting and conveying fish at a flows less than 5m<sup>3</sup>/s.</u></li> </ol> <p><u>Notwithstanding condition (1)(a), whenever:</u></p> <p><u>The mean flow in the Rangitata River for the 24-hour period ending at noon on any one day falls below 132.6 m<sup>3</sup>/s, the diversion of water from the Rangitata River in accordance with this consent shall not exceed 3 m<sup>3</sup>/s;</u></p> <p><u>The mean flow in the Rangitata River for the 24-hour period ending at noon on any one day is between 132.6 m<sup>3</sup>/s and 142.6 m<sup>3</sup>/s, the diversion of water from the Rangitata River in accordance with this consent shall not exceed 4 m<sup>3</sup>/s; and</u></p> <p><u>The mean flow in the Rangitata River for the 24-hour period ending at noon on any one day is above 142.6 m<sup>3</sup>/s, the diversion of water from the Rangitata River in accordance with this consent shall not exceed 5 m<sup>3</sup>/s</u></p>
3	<p>The flows referred to in condition (2) shall be the flow estimated by the Canterbury Regional Council in the Rangitata River at the Klondyke recorder site at map reference NZTM2000: 1456739 mE 5153169 mN.</p>
4	<p>The consent holder shall before the first exercise of this consent:</p> <ol style="list-style-type: none"> <li> <ol style="list-style-type: none"> <li>install a water meter(s) that has an international accreditation or equivalent New Zealand calibration endorsement, and has pulse</li> </ol> </li> </ol>

	<p>output, suitable for use with an electronic recording device, which will measure the rate and the volume of water taken to within an accuracy of plus or minus <del>five-ten</del> percent <del>as part of the pump-outlet plumbing, or within the mainline distribution system</del>, at a location(s) that will ensure the total take of water is measured; and</p> <p>ii. install a tamper-proof electronic recording device such as a data logger(s) that shall time stamp a pulse from the flow meter at least once every 15 minutes and have the capacity to hold at least one season's data of water taken as specified in clauses (b)(i) and (b)(ii), or which is telemetered, as specified in clause (b)(iii).</p> <p>b. The recording device(s) shall:</p> <p>i. be set to wrap the data from the measuring device(s) such that the oldest data will be automatically overwritten by the newest data (i.e. cyclic recording); and</p> <p>ii. store the entire season's data in each 12 month period from 1 July to 30 June in the following year, which the consent holder shall then download and store in a commonly used format and provide to the Canterbury Regional Council upon request in a form and to a standard specified in writing by the Canterbury Regional Council; or</p> <p>iii. shall be connected to a telemetry system which collects and stores all of the data continuously with an independent network provider who will make that data available in a commonly used format at all times to the Canterbury Regional Council and the consent holder.</p> <p>iv. No data in the recording device(s) shall be deliberately changed or deleted.</p> <p>a. The water meter and recording device(s) shall be accessible to the Canterbury Regional Council at all times for inspection and/or data retrieval.</p> <p>b. The water meter and recording device(s) shall be installed and maintained throughout the duration of the consent in accordance with the manufacturer's instructions.</p> <p>c. All practicable measures shall be taken to ensure that the water meter and recording device(s) are fully functional at all times.</p>
5	<p>Within one month of the installation of the measuring or recording device(s), or any subsequent replacement measuring or recording device(s), and at five-yearly intervals thereafter, and at any time when requested by the Canterbury Regional Council, the consent holder shall provide a certificate to the Canterbury Regional Council, Attention: Regional Leader- Monitoring and Compliance, signed by a suitably qualified person certifying, and demonstrating by means of a clear diagram, that:</p> <p>a. The measuring and recording device(s) has been installed in accordance with the manufacturer's specifications; and</p> <p>b. Data from the recording device(s) can be readily accessed and/or retrieved in accordance with clauses (b) and (c) of condition (4).</p>
6	<p>The consent holder shall surrender consent CRC180974 prior to the first exercise of this consent.</p>
7	<p>Pursuant to Section 128(1) of the Resource Management Act 1991, the Consent Authority may serve notice of its intention to review the conditions of this consent within a period of three months commencing on each anniversary of the date of issue of the consent for any of the following purposes:</p> <p>a. To deal with any adverse effects on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or</p> <p>b. To require the Consent Holder to adopt the best practicable option to mitigate any adverse effect upon the environment; or</p> <p>c. To deal with any other adverse effect on the environment on which the exercise of the consent may have any influence.</p>

8	<p>The lapsing date for the purposes of Section 125 of the Resource Management Act 1991 shall be <u>153</u> years from the date consent is issued.</p> <p><b>Advice note:</b> 'Exercised' is defined as implementing any requirements to operate this consent <u>and</u> undertaking the activity as described in these conditions and/or application documents.</p>
9	<p><u>This resource consent shall expire 35 years after it has commenced.</u></p>

**CRC182541: the emergency discharge of water to the Rangitata River;**

1	The discharge shall only be the emergency discharge of water that has been dammed in the Klondyke Storage Dam, which is authorised under consent CRC170657 or any replacement consent.	
1A	<p>The Proposal shall be constructed, operated and maintained in accordance with the details contained within the following documents:</p> <p>a. The Assessment of Environmental Effects report prepared by Ryder Consulting Limited in July 2016 and entitled "Lake Klondyke: A Proposed Water Storage Facility, Assessment of Environmental Effects Report &amp; Resource Consent Application, Prepared for the Rangitata Diversion Race Management Limited, Date Finalised: July 2016"; and</p> <p>b. The Assessment of Environmental Effects report prepared by Ryder Consulting Limited in November 2017 and entitled "Proposed Rangitata Diversion Race Fish Screen and Supplementary Matters Resource Consent Application".</p> <p>except where modified by specific conditions set out in these resource consents or by the plans authorised by the building consent for the Proposal.</p>	
2	The discharge shall occur into the Rangitata River via the emergency spillway <u>or the lower level gate to the outlet channel as identified</u> on the approved Building Consents Plans required under consent CRC170657.	
2A	<u>With regard to the 10 yearly full gate opening required by condition 3B, discharges shall be preceded by a five-minute warning flow of 0.2 m³/s and shall be progressively increased to a full discharge flow over a 30-minute period.</u>	
3	The emergency discharge of water shall occur in accordance with the requirements set out in the Emergency Action Plan for the Dam, as set out in consent CRC170657 or any replacement consent.	
3A	<u>The consent holder shall erect suitable signage at the point of discharge to the river and at common points of recreational access to the river, warning of the potential for sudden increases in flow, and shall devise communication systems to warn known users of the river of the potential for a release. The signage and communication systems shall be developed with recreational user groups of the river including, as a minimum, Rangitata Rafts, Peel Forest Outdoor Centre, White Water New Zealand, Jet Boating New Zealand and ECan River Engineering (Hilary Fraser, Area Engineer Southern)</u>	
3B	<u>Discharges that are required for periodic testing of equipment related to the outlet gate to the Rangitata River as required by the New Zealand Dam Safety Guidelines shall be undertaken as set out below:</u>	
	<u>Test</u>	<u>Minimum flow in the Rangitata River (m³/s)</u>
	<u>6 monthly minimal opening of the gate (cracking the gate)</u>	<u>140</u>
	<u>5 yearly opening of gate to 15 % of maximum</u>	<u>250</u>
	<u>10 yearly full opening of gate (full flow of up to 40.7 m³/s)</u>	<u>250</u>
4	Pursuant to Section 128(1) of the Resource Management Act 1991, the Consent Authority may serve notice of its intention to review the conditions of this consent within a period of three months commencing on each anniversary of the date of issue of the consent for any of the following purposes:	

**Comment [AL2]: CSIFG:** Insert additional conditions requiring:

- Adherence to the water quality standards in clause 11 WCO;
- Monitoring of water quality within the storage pond (as for CRC170657);
- Monitoring of receiving water quality in the Rangitata River;
- Adaptive management responses in the event that receiving water quality does not meet the standards in clause 11 WCO

	<ul style="list-style-type: none"> <li>a. To deal with any adverse effects on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or</li> <li>b. To require the Consent Holder to adopt the best practicable option to mitigate any adverse effect upon the environment; or</li> <li>c. To deal with any other adverse effect on the environment on which the exercise of the consent may have any influence.</li> </ul>
5	<p>The lapsing date for the purposes of Section 125 of the Resource Management Act 1991 shall be 15 years from the date consent is issued.</p> <p><b>Advice note:</b> 'Exercised' is defined as implementing any requirements to operate this consent <u>and</u> undertaking the activity as described in these conditions and/or application documents.</p>
5A	<u>This resource consent shall expire 35 years after it has commenced.</u>

**CRC182542: to change conditions of CRC011237 to enable an alternative fish screen design consisting of ~~either a Mechanical Rotary Fish Screen or a permeable rock bund and infiltration gallery;~~**

**(note below text in italics represents the existing wording of CRC011237)**

1	The maximum rate at which water may be taken and diverted shall be 30.7 cubic metres per second (m <sup>3</sup> /s), such that the combined take with that from the South Ashburton River (CRC011245) does not exceed 35.4 cubic metres per second. Water shall be taken in accordance with the Water Abstraction Restriction Levels and minimum flow provisions outlined in the following tables:				
	Permitted Rate of Water Abstraction for the period 1 <sup>st</sup> September to 31 <sup>st</sup> May:				
	Flow (m <sup>3</sup> /s) at Klondyke	RDR	Other Irrigation	Other Stockwater	Residual Flow in River
	64.0 – 60.1	30.7	0.3	1.0	32.0 – 28.1
	60.0 – 50.1	26.2	0.3	1.0	32.5 – 22.6
	50.0 – 43.1	21.8	0.2	1.0	27.0 – 20.1
	43.0 – 40.1	18.9	0.1	1.0	23.0 – 20.1
	40.0 – 38.1	16.9	0.1	1.0	22.0 – 20.1
	38.0 – 36.1	14.9	0.1	1.0	22.0 – 20.1
	36.0 – 34.1	12.9	0.1	1.0	22.0 – 20.1
	34.0 – 32.1	10.9	0.1	1.0	22.0 – 20.1
	Permitted Rate of Water Abstraction for the period 1 <sup>st</sup> June to 31 <sup>st</sup> August:				
	Flow (m <sup>3</sup> /s) at Klondyke	RDR	Other Irrigation	Other Stockwater	Residual Flow in River
	Above 64	30.7	Nil	1.0	GT 32.3
	64 – 60.1	30.7	Nil	1.0	32.3 – 28.4
	60 – 50.1	26.5	Nil	1.0	32.5 – 22.6
	50 – 40.1	21.5	Nil	1.0	27.5 – 17.6
	40 – 38.1	22.0	Nil	1.0	17.0 – 15.1
	38 – 36.1	20.0	Nil	1.0	17.0 – 15.1
	36 – 34.1	18.0	Nil	1.0	17.0 – 15.1
	34 – 32.1	16.0	Nil	1.0	17.0 – 15.1

	32 – 30.1	14.0	Nil	1.0	17.0 – 15.1
2	The consent holder shall measure and record the rate at which water is taken and diverted at not greater than 30 minute intervals and shall make such records available to Canterbury Regional Council upon request.				
3	The consent holder shall, within six months of the commencement of this consent and thereafter maintain a notice at or about map reference NZMS 260 J36:678-144 warning of the dangers of swimming and boating close to the intake structure.				
4	The consent holder shall ensure that the rock weir does not significantly impede the passage of trout, salmon and native fish.				
5	<p>Until 1 August 20<del>19</del><sup>24</sup>19, or when the replacement fish screen referred to in conditions to (10) is fully operational, the consent holder shall take such measures as are appropriate to ensure that, so far as is reasonably practicable, juvenile salmon are excluded from the body of the diversion race and are returned to the river. To that end:</p> <ul style="list-style-type: none"> <li>a. Within 18 months from the commencement of this consent the consent holder shall install and commission a Bio-acoustic Fish Guidance system for the purpose of diverting, as far as practicable, migrating salmon smolt to the Rangitata River. That system shall be generally as outlined in the evidence presented on 14 February 2003 by Charles Paul Mitchell, Consultant Biologist;</li> <li>b. Within three years of the commencement of this consent the consent holder shall provide the consent authority with a report, prepared by a person appropriately qualified and experienced in freshwater fisheries biology, detailing the extent to which the system referred to in paragraph (a) above is meeting the object of this condition and making recommendations, if such are thought by that person to be necessary, as to the way in which that object may better be met;</li> <li>c. At any time within the fourth year of this consent and during every fourth year thereafter the consent authority may review this condition (pursuant to section 128) for the purpose of determining what steps should be taken by the consent holder so as better to achieve the object of this condition;</li> <li>d. The consent holder may at any time apply to the consent authority for a change to this condition, but for the sole purpose of the better achievement of its object.</li> </ul>				
6	Prior to 1 August 20 <del>19</del> <sup>24</sup> 19, the consent holder shall construct a <u>mechanical rotary</u> fish screen that shall be installed, operated and maintained <del>on the intake</del> to ensure that fish are prevented from <del>entering any of the irrigation infrastructure downstream of the screen being lost from the Rangitata River.</del>				
7	The fish screen referred to in condition (6) shall be designed to comply with the following design specifications as defined in NIWA (2007) Fish Screening: Good Practice Guidelines for Canterbury (hereafter referred to as the Good Practice Guidelines) and/or Schedule 2 of the Canterbury Land and Water Regional Plan				

	<p><del>or subsequent amendments specifically:</del></p> <ul style="list-style-type: none"> <li>a. Location as close as practical to the Rangitata River;</li> <li>b. <u>Wedge wire bars with a Mesh screen size equal to or less than 3mm mesh (side of square) or 2mm slot width;</u></li> <li>c. An <u>maximum average</u> approach <del>and/or through screen</del> velocity <u>(± 10%)</u> of less than 0.12 m/s;</li> <li>d. The sweep velocity past the fish screen elements shall be greater than the approach velocity <u>and sufficient to result in an exposure time not exceeding 60 seconds;</u></li> <li>e. A fish bypass channel shall be designed and operated that is effective in attracting and conveying fish away from the screens and down a bypass channel <u>to the river</u> unharmed;</li> <li>f. Fish bypass channel is designed and operated for continuous flow connection back to a flowing braid of the Rangitata River;</li> <li>g. Screening materials shall not have sharp or protruding surfaces that could damage fish coming into contact with them; and</li> <li>h. An Operations and Maintenance programme that will ensure the screen meets the effectiveness criteria in the Good Practice Guidelines and specifically includes: <ul style="list-style-type: none"> <li>i. mechanisms to monitor and clean screening surfaces to ensure they do not become clogged with material; <del>and</del></li> <li>ii. <u>a programme to monitor and detect any damage to screening surfaces, seals, and movement operation of the screens;</u></li> <li>iii. <u>Mechanisms to remediate any damage to address (ii) above, to ensure repairs occur within 48 hours; and</u></li> <li>iv. <u>A programme to undertake monitoring and maintenance of the fish bypass and fish bypass discharge point to achieve conditions (6) and 7(e) and (f).</u></li> </ul> </li> </ul>
8	<p>The fish <del>screen</del><u>exclusion device</u> referred to in condition (6) shall be designed or supplied by a person with experience in freshwater ecology and fish screening techniques, who shall ensure that the design achieves the design criteria specified in conditions (6) and (7), and that the device is fully designed in accordance with the Good Practice Guidelines and/or Schedule 2 of the Land and Water Regional Plan <del>or subsequent amendments.</del></p>
9	<p>Prior to the installation of the fish screen, a report containing final design plans that demonstrates how the fish screen will meet the performance criteria specified in conditions (6) and (7) of this consent, and an operation and maintenance plan for the fish screen, shall be provided to Canterbury Regional Council, Attention Regional Leader – Monitoring and Compliance <u>for certification prior to commencement of construction.</u></p>
9A	<p><u>Prior to the installation of the fish screen, a Fish Screen Management Plan (FSMP) shall be prepared by a suitably qualified and experienced fisheries ecologist with experience in salmonid and native fisheries and fish exclusion, in consultation with Central South Island Fish and Game. The Fish Screen Management Plan shall set out methods and timeframes for monitoring of the function and effectiveness of the fish screen and fish bypass to demonstrate compliance with conditions (6) and (7). The monitoring programme shall include:</u></p> <ul style="list-style-type: none"> <li>a. <u>Methods to obtain field measurements to demonstrate velocities are being achieved as required by conditions 7(c) and (d);</u></li> <li>b. <u>Methods to demonstrate the effectiveness of the fish bypass in attracting and conveying fish; and</u></li> </ul>



	<p><u>c. Methods and a programme for verifying, by way of live fish trials, ongoing compliance with condition (6) that includes the full migration season for out-migrating salmon (ie 1 August to 31 July).</u></p> <p><u>The FSMP shall also include the Operations and Management Plan required by condition 7(h).</u></p> <p><u>The FSMP shall be provided to Canterbury Regional Council, Attention Regional Leader – Monitoring and Compliance for certification that it has been prepared in accordance with this condition, copy to Central South Island Fish and Game, prior to commencement of construction.</u></p>
10	<p><u>After installation of the fish screen referred to in condition (6) <del>a certificate shall be supplied by a suitably qualified expert in freshwater ecology and fish screen design stating that the fish screen has been installed and is operating in accordance with the design specifications, in accordance with conditions (6) and (7)).</del> The certificate shall be provided to Canterbury Regional Council, Attention Regional Leader – Monitoring and Compliance no later than one month after the commissioning of the fish screen. monitoring shall be undertaken in accordance with the FSMP to demonstrate compliance with conditions (6) and (7). Monitoring shall be undertaken or supervised by an appropriately qualified and experienced fisheries ecologist with knowledge of salmonid and native fisheries and fish exclusion. The results of each stage of monitoring shall be provided to Canterbury Regional Council, Attention Regional Leader – Monitoring and Compliance and Central South Island Fish and Game within one month of completion.</u></p>
10A	<p><u>In the event that the monitoring undertaken in accordance with condition (10) demonstrates that the fish screen does not achieve conditions (6) or (7), the consent holder shall immediately commission a report. The report shall be prepared by an appropriately qualified and experienced fisheries ecologist with knowledge of salmonid and native fisheries and fish exclusion, in consultation with Central South Island Fish and Game. The report shall recommend remedial action to be undertaken by the consent holder in order for fish screen to achieve compliance with conditions (6) and (7) and timeframes for completion of that remedial action. The report shall be provided to the Canterbury Regional Council, Attention Regional Leader – Monitoring and Compliance for certification that it has been prepared in accordance with this condition, copy to Central South Island Fish and Game, no later than three months after completion of the monitoring which identified non-compliance. Once the report is certified by the Regional Council, the consent holder shall implement the recommended remedial action within the timeframes recommended in the report.</u></p>
10A	<p><u><del>The consent holder shall monitor and, as necessary, maintain the discharge point of the fish bypass to ensure the passage of fish from the bypass return channel to the main river flow is not impeded.</del></u></p>
10B	<p><u>Following implementation of any remedial action required by condition (10A), the consent holder shall repeat the action required by condition (10), until compliance with conditions (6) and (7) has been demonstrated.</u></p>
10CB	<p><u>Pursuant to Section 128(1) of the Resource Management Act 1991, the Consent Authority may serve notice of its intention to review the conditions of this consent within a period of three months commencing on each anniversary of the date of issue of the consent for any of the following purposes:</u></p> <p>a. <u>To deal with any adverse effects on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or</u></p>

Comment [AL3]: CSIFG: Now condition 7(h)(iv)

	<p>b. <u>To require the Consent Holder to adopt the best practicable option to mitigate any adverse effect upon the environment; or</u></p> <p><u>To deal with any other adverse effect on the environment on which the exercise of the consent may have any influence.</u></p>
11	The term of this consent shall be 35 years.

**CRC170654: Water permit to abstract 10m<sup>3</sup>/s from the Rangitata River to fill the Klondyke Storage pond;**

<u>1</u>	<p>The Proposal shall be operated and maintained in accordance with the details contained within the following documents:</p> <ul style="list-style-type: none"> <li>a. <u>The Assessment of Environmental Effects report prepared by Ryder Consulting Limited in July 2016 and entitled "Lake Klondyke: A Proposed Water Storage Facility, Assessment of Environmental Effects Report &amp; Resource Consent Application, Prepared for the Rangitata Diversion Race Management Limited, Date Finalised: July 2016"; and</u></li> <li>b. <u>The Assessment of Environmental Effects report prepared by Ryder Consulting Limited in November 2017 and entitled "Proposed Rangitata Diversion Race Fish Screen and Supplementary Matters Resource Consent Application".</u></li> </ul> <p><u>except where modified by specific conditions set out in these resource consents or by the plans authorised by the building consent for the Proposal.</u></p>
<u>2</u>	<p><u>Water shall only be taken from the Rangitata River into the Rangitata Diversion Race, from the Klondyke intake structure at surface water abstraction point (SWAP) J36/0020 at or about map reference NZTM2000: 1457979mE 5152788mN.</u></p>
<u>3</u>	<p><u>Water may only be taken from the Rangitata River at a rate not exceeding 10 m<sup>3</sup>/s.</u></p>
<u>3A</u>	<p><u>This consent shall not be exercised until the fish screen required by condition (6) of CRC011237 has been installed, and compliance with conditions (6) and (7) of CRC011237 has been demonstrated, in accordance with condition (10) of that consent.</u></p>
<u>4</u>	<p><u>Water taken in accordance with these resource consents shall be used for the same purposes specified in consents CRC011237, CRC011245, CRC143165, CRC182536 and CRC182630 or any resource consents that replace those consents.</u></p>
<u>5</u>	<p><u>Notwithstanding condition 3, whenever:</u></p> <ul style="list-style-type: none"> <li>a. <u>The <del>mean</del> flow in the Rangitata River <del>for the 24-hour period ending at noon on any one day</del> falls below 132.6 m<sup>3</sup>/s, the taking of water from the Rangitata River in accordance with conditions 2 and 3 shall cease;</u></li> <li>b. <u>The <del>mean</del> flow in the Rangitata River <del>for the 24-hour period</del> falls below 142.6 m<sup>3</sup>/s, then the rate of water abstracted from the Rangitata River in accordance with conditions 2 and 3 shall reduce to that shown on the attached Graph CRC170654, which is attached to, (refer to Annexure A) and forms part of these resource consents; and</u></li> <li>c. <u>The Canterbury Regional Council issues a notice to the consent holder advising that the Council wishes to measure the flow in the Rangitata River, the taking of water from the Rangitata River in accordance with conditions 2 and 3 shall cease for up to 48 hours.</u></li> </ul>
<u>6</u>	<p><u>The flows referred to in condition 5 shall be the flow estimated by the Canterbury Regional Council in the Rangitata River at the Klondyke recorder site at map reference NZTM2000: 1456739 mE 5153169 mN.</u></p>
<u>7</u>	<p><u>The consent holder shall surrender resource consent CRC134808 prior to it taking water in accordance with conditions 2 to 6.</u></p>

8	<p><u>The consent holder shall before the first exercise of this consent:</u></p> <p>a. <u>Install a water meter(s) that:</u></p> <p>i. <u>has an international accreditation or equivalent New Zealand calibration endorsement, and has pulse output, suitable for use with an electronic recording device, which will measure the rate and the volume of water taken to within an accuracy of plus or minus ten percent at a location(s) that will ensure the total take of water is measured; and</u></p> <p>ii. <u>has a tamper-proof electronic recording device such as a data logger(s) that shall time stamp a pulse from the flow meter at least once every 15 minutes and have the capacity to hold at least one season's data of water taken as specified in clauses (b)(i) and (b)(ii), or which is telemetered, as specified in clause (b)(iii).</u></p> <p>b. <u>The recording device(s) shall:</u></p> <p>i. <u>be set to wrap the data from the measuring device(s) such that the oldest data will be automatically overwritten by the newest data (i.e. cyclic recording); and</u></p> <p>ii. <u>store the entire season's data in each 12 month period from 1 July to 30 June in the following year, which the consent holder shall then download and store in a commonly used format and provide to the Canterbury Regional Council upon request in a form and to a standard specified in writing by the Canterbury Regional Council; or</u></p> <p>iii. <u>shall be connected to a telemetry system which collects and stores all of the data continuously with an independent network provider who will make that data available in a commonly used format at all times to the Canterbury Regional Council and the consent holder. No data in the recording device(s) shall be deliberately changed or deleted.</u></p>
9	<p><u>The water metering and storage devices required by condition 8 shall be:</u></p> <p>a. <u>Accessible to the Canterbury Regional Council at all times for inspection and/or data retrieval;</u></p> <p>b. <u>Installed and maintained throughout the duration of the consent in accordance with the manufacturer's instructions; and</u></p> <p>c. <u>Kept fully functional at all times, to the extent that is practicable.</u></p>
10	<p><u>Within one month of the installation of the measuring or recording device(s), or any subsequent replacement measuring or recording device(s), and at five-yearly intervals thereafter, and at any time when requested by the Canterbury Regional Council, the consent holder shall provide a certificate to the Canterbury Regional Council, Attention: Regional Leader- Monitoring and Compliance, signed by a suitably qualified person certifying, and demonstrating by means of a clear diagram, that:</u></p> <p>a. <u>The measuring and recording device(s) has been installed in accordance with the manufacturer's specifications; and</u></p> <p>b. <u>Data from the recording device(s) can be readily accessed and/or retrieved in accordance with condition 8.</u></p>
11	<p><u>Pursuant to Section 128(1) of the Resource Management Act 1991, the Consent Authority may serve notice of its intention to review the conditions of this consent within a period of three months commencing on each anniversary of the date of issue of the consent for any of the following purposes:</u></p> <p>a. <u>To deal with any adverse effects on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or</u></p> <p>b. <u>To require the Consent Holder to adopt the best practicable option to mitigate any adverse effect upon the environment; or</u></p> <p>c. <u>To deal with any other adverse effect on the environment on which the</u></p>

**Comment [AL4]: CSIFG:** New conditions required for:

- Periodic surveys of channel morphology and bed-material size-grading downstream of the RDR intake to record the morphological change anticipated with flood harvesting
- Monitoring fine sediment deposition in low energy environments downstream of the RDR intake;
- Monitoring of the connectivity the proposed fish bypass channel with the Rangitata main channel at the discharge point (accepted by the Applicant); and
- Adaptive management responses should monitoring demonstrate that this is required

	<u>exercise of the consent may have any influence.</u>
<u>12</u>	<u>The lapsing date for the purposes of Section 125 of the Resource Management Act 1991 shall be 15 years from the date consent is issued.</u>  <u><b>Advice note:</b> 'Exercised' is defined as implementing any requirements to operate this consent and undertaking the activity as described in these conditions and/or application documents.</u>
<u>12A</u>	<u>The consent holder shall not exercise this resource consent in the following circumstances, when the flow in the Rangitata River is between the range of 132.6 m<sup>3</sup>/s to 400m<sup>3</sup>/s:</u>  <u>a) Between the hours of 0600-1800 Saturday and 0600-1800 Sunday on two occasions during the period beginning 15 December and ending 15 February; and</u> <u>b) On two further occasions within the period identified in a) above, providing the level of water within the Klondyke Storage Facility is in excess of 75% of its maximum operating capacity.</u>  <u>For clarity, the restrictions in a) and b) above are not applicable when the flow in the Rangitata River exceeds 400m<sup>3</sup>/s.</u>
<u>12B</u>	<u>The consent holder shall take practical steps to notify White Water New Zealand at least 24 hours prior to commencing the flow restrictions identified in condition 12A above.</u>
<u>13</u>	<u>This resource consent shall expire 35 years after it has commenced.</u>

**Comment [MOU5]:** Currently still discussion with WWNZ