DRAFT CONSENT CONDITIONS FOR CONSIDERATION DURING THE COMMENTS PROCESS

These draft conditions represent the latest version following discussion with and comments from various parties.

CONSENT HOLDER: Genesis Energy Limited

CONSENT TYPE: Water Permit

CONSENT SCOPE

0. The activity authorised by this consent comprises:

   a. The damming of the Takapō / Tekapo River via the Lake Takapō / Tekapo Control Structure (Gate 16) to control and operate the levels of Lake Takapō / Tekapo.

   b. The taking, diverting and using of water from Lake Takapō / Tekapo via the Tekapo Intake Structure for the generation of electricity, and ancillary purposes, at the Tekapo A and B Power Stations.

   c. The damming of the Takapō / Tekapo River at the Lake George Scott Weir to control and maintain the water levels in Lake George Scott.

   d. The taking and diversion of water from the Takapō / Tekapo River via the Tekapo Canal Control Structure (Gate 17).

   e. Duration of consent: 35 years from the date of commencement of this consent.

   Advice note: the activities described above do not constitute consent conditions that can be changed, cancelled or reviewed under sections 127 or 128 of the Resource Management Act 1991.

1. The activities authorised by this consent are located at:

   Legal Description

   Tekapo Power Scheme – Lot 1 DP 421602, Lot 1 DP 562455, Lot 1 DP 439605, Section 2 SO 567261, Lot 2 DP 364538, Lot 1 DP 407182, Lot 2 DP 407182, Section 1 SO 331257, Section 1 SO 20293, Section 1 SO 394353, Section 2 SO 394353.

   Map References

Structure	NZTM Coordinate	
	Easting	Northing
Tekapo Control Structure (Gate 16)	1398034	5124317
Tekapo Intake Structure	1397200	5124969
Lake Tekapo Stilling Well	1397431	5124893
Tekapo A Power Station	1396441	5123467

Structure	NZTM Coordinate	
	Easting	Northing
Lake George Scott Weir	1396531	5123259
Tekapo Canal Control Structure (Gate 17)	1396526	5123315
Tekapo A Tailrace	1396436	5123403
Tekapo Canal (Upstream)	1396434	5123398
Tekapo Canal (Downstream)	1378199	5111027

Note: Where structure names described above are referred to in the consent conditions, then the specific map references for those structures are those described above and are not included in the specific consent condition.

GENERAL CONDITIONS

2. The damming, taking, diversion and use of water authorised by this resource consent must be undertaken in general accordance with the information provided in the document "Genesis Energy Limited Tekapo Power Scheme: Fast-track Application for Resource Consents and Assessment of Environmental Effects" dated April 2025. In the event of any conflict or discrepancy between this document and the conditions of this resource consent, the conditions prevail.

3. The Consent Holder must ensure that the damming, taking, diversion and use of water authorised by this resource consent are carried out in accordance with the following conditions and to the conditions set out in Schedule One – Conditions, which form a part of this consent. Where there is a difference or apparent conflict between the conditions below and the conditions in Schedule One, the specific conditions in this consent below prevail.

DIVERSION AND WATER TAKE CONDITIONS

4. Provided that the combined divert, take and use does not exceed a maximum of up to 130 cubic metres of water per second, the consent holder may:

   a. Divert, take and use up to 130 cubic metres of water per second from Lake Takapō / Tekapo via the Tekapo Intake Structure for hydro-electricity generation purposes.

   b. Divert, take and use up to 130 cubic metres of water per second from the Takapō / Tekapo River via the Tekapo Canal Control Structure (Gate 17) for hydro-electricity generation purposes.

5. The maximum volume of water that can be taken for the Tekapo Power Scheme shall not exceed that necessary to provide for the annual allocation to activities specified in the table attached as Appendix 1.

6. Except as provided for in conditions 7 and 8 below, the consent holder may at any time take or divert water from Lake Takapō / Tekapo, for the purpose of hydro electricity generation, when the lake level exceeds the following minimum operating levels:

Period	**Lake Level (metres above mean sea level, Lyttelton 1937 datum)**
April to September (inclusive)	702.1
October to March (inclusive)	704.1

7. When the aggregate storage for New Zealand or the South Island is below the relevant System Operator Contingent Storage Release Boundary trigger level under the Security of Supply Forecasting and Information Policy (as approved under Part 7 of the Electricity Industry Participation Code 2010), or any subsequent equivalent regulatory arrangement that enables the consent holder to access contingent storage in specified circumstances, the consent holder may take or divert water from Lake Takapō / Tekapo for hydro-electricity generation purposes below the minimum operating lake levels specified in condition 6, to a minimum lake level of 701.8 metres above mean sea level (Lyttelton 1937 datum). Notice of the reduction in lake level and its expected duration must be given to Canterbury Regional Council, Te Rūnanga o Arowhenua, Te Rūnanga o Waihao and Te Rūnanga o Moeraki as soon as practicable.

8. If the Lake Takapō / Tekapo lake level is below 704.1 metres above mean sea level (Lyttelton 1937 datum) on 30 September (other than as provided for in condition 7), the consent holder may continue to take or divert water from Lake Takapō / Tekapo for hydro-electricity generation purposes on and after 1 October provided the Lake Takapō / Tekapo 24-hour rolling average lake level does not decrease further.

9. If the lake level has been reduced in accordance with condition 7 or is below 704.1 metres above mean sea level in accordance with condition 8, the consent holder must take reasonable measures to restore Takapō / Lake Tekapo to the minimum consented lake level under condition 6 for that time of year as soon as practicable, after consideration of such matters including (but not limited to):

    a. Electricity generation levels required to maintain security of electricity supply in New Zealand;

    b. Operational matters, such as such as maintaining flows, minimum water levels and water quality through the scheme; and

    c. Present and likely lake inflows.

10. If the lake level has been reduced in accordance with condition 7 or is below 704.1 metres above mean sea level in accordance with condition 8, the consent holder must:

a. Advise the Canterbury Regional Council, Te Rūnanga o Arowhenua, Te Rūnanga o Waihao and Te Rūnanga o Moeraki weekly of:

i. The progress towards, and the expected timetable for restoring Takapō / Lake Tekapo to the consented minimum lake level under condition 6; and

ii. The strategies adopted to restore Takapō / Lake Tekapo to the consented minimum lake level; and

iii. The lake level at the end of each reporting week.

(b) No later than eight weeks following the completion of each activation of condition 7 or 8, the consent holder must, provide the Canterbury Regional Council, Te Rūnanga o Arowhenua, Te Rūnanga o Waihao and Te Rūnanga o Moeraki with the following information:

i. The date and time at which Takapō / Lake Tekapo was lowered below the consented minimum lake level under condition 6;

ii. The levels at which Takapō / Lake Tekapo was managed over the duration of the activation;

iii. The duration of the activation;

iv. The length of time following completion of the activation for Takapō / Lake Tekapo to be restored to the consented minimum lake level under condition 6; and

v. A written description of the circumstances leading to activation.

11. If the consent holder has managed the lake level in accordance with conditions 7 or 8 in the previous 12 months, the Canterbury Regional Council may review conditions 9 or 10 of this consent by giving notice of its intention to do so in accordance with section 128 of the Resource Management Act 1991, at any time within six months following the receipt of the information required in condition 10, for the purpose of amending or adding conditions to ensure that adverse effects of the management of the lake levels under condition 6 are appropriately managed.

MONITORING CONDITIONS

12. The consent holder must install and operate a monitoring device or system to assess compliance with the flow rate specified in condition 4, based on a 30-minute moving average. The monitoring device or system must:

a. Measure and record flow rates at the locations specified below.

b. Be connected to a system which collects and stores the data continuously.

c. Record the flow at each location identified below at a frequency not greater than every 5 minutes.

d. Be verified using the method, accuracy and at the frequency identified for each location listed below.

Location	Compliance Determination Frequency	Verification Method	Verification Accuracy	Verification Frequency
Tekapo A Power Station	30-minute moving average	Winter Kennedy Data Set	± 5%	Annually
		Open Channel	± 10%	Five yearly
Tekapo Canal Control Structure (Gate 17)	30-minute moving average	Open Channel	± 10%	Annually

Advice Note: Tekapo A Power Station is considered a pipe flow; however, the 5 yearly validation will be via open channel method measured to within an accuracy of ± 10% of the actual flow.

Advice Note: Gate 17 is considered an open channel measurement device due to the means of validation being an open channel method. Gate 17 operates in both a closed orifice and open channel 'free flow' manner.

Advice Note: For the avoidance of doubt, the total flow taken between Tekapo A and Gate 17 shall not be more than 130 m^3/s.

13. The consent holder must install and operate a monitoring device or system to measure the Lake Tekapo / Takapō water level at the Lake Tekapo Stilling Well. The monitoring device or system must:

    a. Use a sensor with a resolution of no more than ±3 mm accuracy.

    b. Be connected to a system which collects and stores the data continuously.

    c. Record the water level at the Lake Tekapo Stilling Well at a frequency not greater than every 5 minutes.

    d. Be verified every 3 months using a physical lake level measurement at the Lake Tekapo Stilling Well.

14. Compliance with the minimum operating lake levels specified in condition 6 and the maximum control and minimum lake levels specified in Schedule 1, condition 1 shall be determined as a 60-minute moving average in relation to mean sea level (Lyttelton 1937 datum).

15. The consent holder must provide the flow and water level data recorded for each day in accordance with conditions 12 and 13 to the Canterbury Regional Council electronically, in a format acceptable to the Council, no later than the end of the following day.

MISCELLANEOUS

16. The consent holder must ensure that compliance with consent conditions 1 to 15 is maintained at all times, except where an alternative operating regime is necessary in order to maintain the structural integrity and safety of any of the Tekapo Power Scheme or Waitaki Power Scheme infrastructure or public safety.

17. Where an alternative operating regime is necessary, the consent holder must take all reasonably practicable steps to comply with consent conditions 4 to 13 and the conditions in Schedule One and to safely return the Tekapo Power Scheme to normal operation.

18. Where control of the Tekapo Power Scheme cannot be returned to normal operation within two hours, the consent holder must:

    a. Notify the Canterbury Regional Council attention: RMA Compliance and Enforcement Manager, Te Rūnanga o Arowhenua, Te Rūnanga o Waihao and Te Rūnanga o Moeraki as soon as practicable; and

    b. Within two working days of the circumstances identified in this condition occurring at the Tekapo Power Scheme, provide a timetable for returning to normal operation as soon as practicable if that has not already occurred within two working days.

CONSENT HOLDER: Genesis Energy Limited

CONSENT TYPE: Discharge Permit

CONSENT SCOPE:

0. The activity authorised by this consent comprises:

   a. The discharge of water and associated contaminants into Lake Pūkaki from the Tekapo B Power Station.

   b. The discharge of water and associated contaminants into the Takapō / Tekapo River from the Lake Takapō / Tekapo Control Structure (Gate 16) for the purposes of high flow management, to bypass Tekapo A Power Station, for Lake George Scott Water level maintenance, maintenance activities, and/or for recreational release purposes.

   c. The discharge of water and associated contaminants into the Takapō / Tekapo River from the Lake George Scott Weir for maintenance activities and high flow management.

   d. Duration of consent: 35 years from the date of commencement of this consent.

   Advice note: the activities described above do not constitute consent conditions that can be changed, cancelled or reviewed under sections 127 or 128 of the Resource Management Act 1991.

1. The activities authorised by this consent are located at:

   Legal Description

   Tekapo Power Scheme – Lot 1 DP 421602, Lot 1 DP 562455, Lot 1 DP 439605, Section 2 SO 567261, Lot 2 DP 364538, Lot 1 DP 407182, Lot 2 DP 407182, Section 1 SO 331257, Section 1 SO 20293, Section 1 SO 394353, Section 2 SO 394353.

   Map References

Structure	NZTM Coordinate	
	Easting	Northing
Tekapo Control Structure (Gate 16)	1398034	5124317
Lake George Scott Weir	1396531	5123259
Tekapo B Power Station	1376945	5110725
Tekapo B Tailrace	1376919	5110714

   Note: Where structure names described above are referred to in the consent conditions, then the specific map references for those structures are those described above and are not included in the specific consent condition.

2. The discharge of water and associated contaminants authorised by this resource consent must be undertaken in general accordance with the information provided in the document “Genesis Energy Limited Tekapo Power Scheme: Fast-track Application for Resource Consents and Assessment of Environmental Effects” dated April 2025. In the event of any conflict or discrepancy between this document and the conditions of this resource consent, the conditions prevail.

3. The Consent Holder must ensure that the discharge of water and associated contaminants authorised by this resource consent is carried out in accordance with the following conditions and to the conditions set out in Schedule One – Conditions, which form a part of this consent. Where there is a difference or apparent conflict between the conditions below and the conditions in Schedule One, the specific conditions in this consent below prevail.

4. The consent holder may discharge up to 130 cubic metres of water per second from the Tekapo B Tailrace to Lake Pūkaki.

5. The consent holder may discharge water to the Takapō / Tekapo River via the Tekapo Control Structure (Gate 16).

6. The consent holder may discharge water into the Takapō / Tekapo River via the Lake George Scott Weir.

7. The consent holder must install and operate a monitoring device or system to measure discharge rates, based on a 30-minute moving average. The monitoring device or system must:

    a. Measure and record flow rates at the locations specified below.

    b. Be connected to a system which collects and stores the data continuously.

    c. Record the discharge at each location identified in the table below at a frequency not greater than every 5 minutes.

    d. Be verified using the method, accuracy and at the frequency identified for each location listed below.

Location	Compliance Determination Frequency	Primary Measurement	Verification Method	Verification Accuracy	Verification Frequency
Tekapo Control Structure (Gate 16)	30-minute moving average	Two-dimensional flow rating (Inputs: Lake Tekapo / Takapō level and Gate 17 position)	Open Channel	± 10%	Annually

Location	Compliance Determination Frequency	Primary Measurement	Verification Method	Verification Accuracy	Verification Frequency
Lake George Scott Weir	30-minute moving average	Stage to flow rating	Open Channel	± 10%	Annually
Tekapo B Power Station	30-minute moving average	Penstock flow sensors	Two-Dimensional rating table	± 5%	Annually
			Open Channel	± 10%	5 yearly

Advice note: Lake George Scott verification is subject to being able to measure due to intermittent flow durations.

8. The consent holder must provide the flow and water level data recorded for each day in accordance with condition 7 to the Canterbury Regional Council electronically, in a format acceptable to the Council, no later than the end of the following day.

9. The consent holder must ensure that compliance with consent conditions 1 to 8 is maintained at all times, except where an alternative operating regime is necessary in order to maintain the structural integrity and safety of any of the Tekapo Power Scheme or Waitaki Power Scheme infrastructure or public safety.

10. Where an alternative operating regime is necessary, the consent holder must take all reasonably practicable steps to comply with consent conditions 4 to 8 and the conditions in Schedule One and to safely return the Tekapo Power Scheme to normal operation.

11. Where control of the Tekapo Power Scheme cannot be returned to normal operation within two hours, the consent holder must:

    a. Notify the Canterbury Regional Council attention: RMA Compliance and Enforcement Manager, Te Rūnanga o Arowhenua, Te Rūnanga o Waihao and Te Rūnanga o Moeraki as soon as practicable; and

    b. Within two working days of the circumstances identified in this condition occurring at the Tekapo Power Scheme, provide a timetable for returning to normal operation as soon as practicable if that has not already occurred within two working days.

SCHEDULE ONE CONDITIONS

CONSENT HOLDER: Genesis Energy Limited

Resource consents [*insert consent numbers*] for the Tekapo Power Scheme are granted subject to the following general conditions:

MANAGEMENT OF LAKE TAKAPŌ / TEKAPO LEVELS

1. Except as provided for by the specific conditions of resource consent [*insert water permit consent number*], the consent holder may at any time operate the Tekapo Power Scheme to manage the level of Lake Takapō / Tekapo, for the purpose of water storage for hydro electricity generation, between the following control levels:

   (a) Maximum control lake level:

Period	**Lake Level (metres above mean sea level, Lyttelton 1937 datum)**
March	710.00
April	710.30
May	710.60
June	710.90
July	710.90
August	710.30
September to February (inclusive)	709.70

   (b) Minimum lake level:

Period	**Lake Level (metres above mean sea level, Lyttelton 1937 datum)**
April to September (inclusive)	702.1
October to March (inclusive)	704.1

LAKE TAKAPŌ / TEKAPO HIGH FLOW MANAGEMENT

2. If at any time Lake Takapō / Tekapo rises above a maximum control lake level specified in condition 1 (a) during the relevant period, then the Tekapo Power Scheme must be operated in such a way so as to safely return to that maximum control lake level as soon as is practicable and in accordance with a Lake Takapō / Tekapo High Flow Management Plan ("**HFMP**") prepared by a suitably qualified and experienced person(s).

3. The purpose of the HFMP is to document how the flows via structures controlled by the consent holder (the Tekapo Intake Structure and the Tekapo Control Structure (Gate 16), the Lake George Scott Weir and Gate 17 to the Tekapo Canal) will be managed to:

(a) Reduce lake levels as required by condition 2; and

(b) Protect the integrity of the Tekapo Power Scheme structures during periods when inflows to the lake raise the lake level above the maximum lake level specified in condition 1(a).

4. As a minimum, the HFMP must include or address the following specific matters:

(a) How the requirements of conditions 10 and 11 will be implemented to reduce lake levels and to protect the integrity of the Tekapo Power Scheme structures;

(b) The combined total discharge flow from Lake Takapō / Tekapo via the Tekapo Intake Structure and the Tekapo Control Structure (Gate 16) that will be maintained at a minimum, to reduce lake levels to the maximum control lake level specified in condition 1(a);

(c) The rate at which the combined rates of flow to the Tekapo A Power Station (via the Tekapo Intake Structure) and to the Takapō / Tekapo River (via Gate 16) will be adjusted to meet the rates identified in (a) above;

(d) The circumstances in which Gate16 may be required to operate in advance of the maximum control lake level being reached to ensure that the combined total discharge flow rates identified in (b) and (c) can be achieved when the lake level is rising rapidly and/or if there are significant inflows forecast;

(e) The design flow rate for Gate 16, Gate 17 and the Lake George Scott Weir;

(f) How Gate 17 will be operated during events where the water level in Lake Takapō / Tekapo exceeds the maximum lake level specified in condition 1(a);

(g) Any controls required for the Lake George Scott Weir; and

(h) Notification procedures (including parties to be notified) when the HFMP is being implemented.

5. Within six months of the commencement of this consent and following consultation with the Canterbury Regional Council, Mackenzie District Council and the operators of the Waitaki Power Scheme, the consent holder must provide an updated Lake Takapō / Tekapo HFMP to the Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager, for certification that the matters in condition 4(a) to (h) have been addressed.

The HFMP prepared in accordance with conditions 3 and 4 and submitted to the Council in accordance with condition 5 can be immediately implemented by the consent holder until otherwise advised by the Council under condition 8.

6. The HFMP certified under condition 5:

a. May be reviewed and updated by the consent holder as necessary for the purpose of improving the efficacy of the HFMP in achieving the purpose in condition 3; and

b. Must be reviewed and amended by the consent holder at intervals of not more than ten years by a suitably qualified and experienced person(s).

The updated or amended HFMP may be immediately implemented by the consent holder until otherwise advised by the Council under condition 8.

7. Within six months of any update or amendment in accordance with condition 6 and following consultation with the Canterbury Regional Council, Mackenzie District Council and the operators of the Waitaki Power Scheme, the consent holder must provide the updated or amended HFMP to the Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager, for certification that the matters in condition 4(a) to (h) have been addressed.

8. If the consent holder is advised that the Canterbury Regional Council will not certify the HFMP prepared under conditions 3 and 4 or any updates or amendments to the HFMP prepared under condition 6 the consent holder must:

a. Continue to implement the HFMP prepared under conditions 3 and 4 while considering any reasons and recommendations provided by Council; or

b. In respect of any update or amendment to the HFMP prepared under condition 6, continue to implement the previously certified HFMP while considering any reasons and recommendations provided by Council; and

c. Make appropriate amendments to the HFMP where relevant to address the matters identified by the Council; and

d. Following consultation with the Canterbury Regional Council, Mackenzie District Council and the operators of the Waitaki Power Scheme, resubmit the updated or amended HFMP to the Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager for certification that the matters in condition 4(a) to (h) have been addressed. Where any reasons and recommendations provided by Council are not addressed in the updated or amended HFMP, reasons for not addressing those matters must be included in the resubmitted HFMP.

9. When the level of Lake Takapō / Tekapo exceeds a maximum lake level specified in condition 1(a) during the relevant period, the consent holder must operate the Tekapo Power Scheme in accordance with the HFMP certified under condition 5 or the updated HFMP certified under condition 7 so as to safely return the level of the lake to the maximum lake level specified in condition 1(a) (or less) for the relevant period as soon as is practicable.

10. The consent holder must use reasonable endeavours to operate Gate 16 and Gate 17 to minimise the rate of change of flow down the Takapō / Tekapo River to manage flow fluctuations. If the Gate 17 discharge is altered while there is a discharge over the Lake George Scott Weir to the Takapō / Tekapo River, the Gate 16 and Gate 17 operations must be managed to minimise abrupt changes in discharge down the Takapō / Tekapo River.

11. For the purpose of implementing the HFMP, the following requirements apply:

    a. The initial discharge into the Takapō / Tekapo River from Lake George Scott (over the Lake George Scott Weir) must not exceed a maximum rate of 20 m^3/s for a period of not less than six hours.

    b. The next discharge step must not exceed a maximum rate of 45 m^3/s and must not be increased for at least three hours.

    c. Unless lake levels are 0.4 m or more above the maximum control lake level specified in condition 1(a), further increases in discharges below the Lake George Scott Weir must ensure that:

        i. The maximum increase in flow at each gate change must not exceed 20 m^3/s; and

        ii. There must be at least one hour between gate changes.

    d. If Gate 16 is in use when Lake Takapō / Tekapo is below the maximum control level specified in condition 1, the discharge below the Lake George Scott Weir must be reduced at a maximum rate of 20 m^3/s per hour.

    e. When Gate 16 is being progressively closed, and discharge is occurring over the Lake George Scott Weir at a rate at or below 20 m^3/s, the following minimum flows over the Lake George Scott Weir must be maintained to simulate natural recession of the Takapō / Tekapo River:

        Step One: 20 m^3/s for 24 hours;

        Step Two: 12 m^3/s for 24 hours;

        Step Three: 5 m^3/s for 24 hours;

        Step Four: 2 m^3/s for 48 hours; and

        Step Five: cease flow over Lake George Scott Weir.

    f. If the initial spill flow is between 10 and 20 m^3/s, the recession rules from the next step in condition 11(e) below that spill flow apply.

12. Any flow under 10 m^3/s discharged from the Lake George Scott Weir for under 90 minutes in duration will not be deemed to trigger the recession rules in condition 11. For

the avoidance of doubt this does not preclude notification and potential sports fish salvage in accordance with the Sports Fish Salvage Management Plan under condition 14.

13. Should it be required to use Gate 16 or the Lake George Scott Weir when Lake Takapō / Tekapo is below the maximum control lake level specified in condition 1(a), the Lake George Scott Weir must be operated in accordance with conditions 10 to 12.

SPORTS FISH SALVAGE MEASURES

14. The Consent Holder must prepare and implement a Sports Fish Salvage Management Plan ("**FSMP**") for the Tekapo Power Scheme following consultation with the Central South Island Fish and Game Council, to describe the action(s) to be taken by the Consent Holder to reduce sports fish mortality when one or more of the events in condition 16(a), (b) or (c) apply.

    Advice note: where native fish are identified and it is practicable to do so, native fish should be relocated to an appropriate area.

15. The FSMP must include:

    (a) Definitions of:

        i. Extended Flow Events (involving flow releases from Gate 16 or spill flows over the Lake George Scott Weir at defined rates and for defined periods of time);

        ii. Significant Stranding Events, where recorded observations by the Central South Island Fish and Game Council or Genesis staff on regular inspection duties identify more than a defined number of stranded sports fish within the Gate 16 stilling basin, the Upper Takapō River near the Canoe Course or the Lake George Scott Weir stilling basin, or within 1.6 km downstream of the Lake George Scott Weir.

    (b) Protocol(s) for undertaking the sports fish salvage process, including ensuring that sports fish are not relocated to areas where sports fish are currently excluded;

    (c) Communications protocol between the consent holder and Central South Island Fish and Game Council to inform of significant stranding events of sports fish, monitoring and reporting;

    (d) Timeframes for sports fish salvage to take place after Significant Stranding Events;

    (e) Reporting provisions for sports fish salvage success including alive, dead and remaining fish;

    (f) Health and safety requirements and communications for any person undertaking sports fish salvage; and

(g) Provision for specific appendices to be included for sports fish salvage in the event that the Tekapo A draft tube and/or Tekapo Canal are to be dewatered.

Advice note: additional resource consents may be required for dewatering of the Tekapo A draft tube and/or Tekapo Canal.

16. The Consent Holder must implement the FSMP upon any of the following occurring:

(a) An Extended Flow Event (as defined in accordance with condition 15); and

(b) A Significant Stranding Event (as defined in accordance with condition 15) at:

(i) Gate 16 stilling Basin;

(ii) Upper Takapō / Tekapo River Area 1 to Canoe Course (and as shown in Schedule 2 of the FSMP);

(iii) George Scott Weir stilling Basin; and

(iv) Lower Takapō / Tekapo River, Area 6 (and as shown in Schedule 2 of the FSMP); or

(c) When the Tekapo A draft tube and/or Tekapo Canal are dewatered.

17. In the event of the Consent Holder intending to dewater either (or both of) the Tekapo A draft tube and/or Tekapo Canal, the Consent Holder must, following consultation with Central South Island Fish and Game Council, prepare a sports fish salvage plan specific to the dewatering activity. That plan, and any comments from Central South Island Fish and Game Council not adopted, with reasons why, must become an appendix to the FSMP and be provided to Canterbury Regional Council for information within 20 working days of finalisation of the updated FSMP.

Advice note: additional resource consents may be required for dewatering of the Tekapo A draft tube and/or Tekapo Canal.

18. The Consent Holder must, following consultation with Central South Island Fish and Game Council, every 5 years review the effectiveness of the FSMP in achieving its purpose.

19. The Consent Holder must provide a copy of the FSMP, and any revised FSMP prepared following the review undertaken in accordance with condition 18, and any updated sports fish salvage plan prepared in accordance with condition 17 to Canterbury Regional Council attention: RMA Compliance and Enforcement Manager within 20 working days of finalisation of the relevant FSMP.

20. The Consent Holder must at all times comply with the FSMP, and any revised FSMP (including any appended sports fish salvage plan under condition 17), as provided to Canterbury Regional Council.

RECREATIONAL RELEASES

21. Subject to condition 22, Genesis must, at the request of Whitewater New Zealand Incorporated and the Tekapo Whitewater Trust, provide up to 4820 cumec hours to the Upper Tekapo River (between Gate 16 and Lake George Scott) annually between 1 July and 30 June for in-river recreation including, without limitation, white water canoeing, kayaking, rafting, sledging, and boarding.

22. The Consent Holders obligation to provide any particular requested recreational release shall not apply when any of the following applies:

    (i) Mechanical or system failures;

    (ii) Maintenance, repairs or upgrades, of the Tekapo Power Scheme;

    (iii) Extreme weather or other natural hazard events;

    (iv) Compliance with statutory requirements (including health and safety) and with the conditions of the Tekapo Consents (such as maintaining lake levels);

    (vi) Operational demands within the electricity system such as requirements or restrictions on generation (including, but not limited to, Islanding as required by the National Grid operator); and

    (vii) Requirements to meet security of supply if the aggregate storage for New Zealand or the South Island is below the relevant trigger level specified in System Operator policy.

    However, the Consent Holder shall use reasonable endeavours to supply water at a mutually agreed date within the relevant year.

ENVIRONMENTAL COMPENSATION

23. The consent holder must ensure an integrated Indigenous Biodiversity Enhancement Programme ("**IBEP**") is undertaken from the commencement of resource consents replacing existing Combined Waitaki Power Scheme resource consents. The objective of the IBEP is to improve the:

    - Condition;
    - Resilience;
    - Indigenous biodiversity;
    - Ecological processes; and
    - Other values

    of

    - The braided rivers including their braid plains and margins;

- Lake margins and deltas; and
- Wetland and springs associated with lakes and braided rivers

within the Waitaki Catchment.

Advice note: the IBEP may be undertaken in conjunction with any other generator within the Combined Waitaki Power Scheme.

Advice note: nothing in the IBEP may require the consent holder to alter the existing operation of the Tekapo Power Scheme.

24. The consent holder's contribution to the IBEP must have a minimum annual value of $287,500, CPI (all groups) adjusted from 1 July 2025.

25. In accordance with the objective of the IBEP as set out in condition 23 the IBEP will:

    a) Focus work primarily, but not exclusively, on those waterbodies directly affected by the Waitaki or Tekapo power schemes;

    b) Incorporate the values, interests and aspirations as expressed by the Waitaki Rūnanga; and

    c) Foster increased understanding of such areas and their biodiversity through research and development.

IMPLEMENTATION OF THE INDIGENOUS BIODIVERSITY ENHANCEMENT PROGRAMME

26. At all times there must be a strategic plan that sets out how conditions 23 and 25 are to be achieved ("**Strategic Plan**") over a 10-year planning horizon ("**Strategic Plan Period**"). The initial Strategic Plan will cover intended actions to implement the IBEP over the first 10 year period of this consent and must be prepared and a copy supplied to the Canterbury Regional Council within 6 months of the commencement date of this consent.

27. The Strategic Plan must be reviewed and confirmed or replaced, and a copy provided to the Canterbury Regional Council not more than ten years following preparation of the initial Strategic Plan and not more than every ten years thereafter. All reviews of the Strategic Plan must be provided to the Canterbury Regional Council prior to the commencement of the period to which the Strategic Plan relates.

28. The Strategic Plan must:

    a) Be prepared by one or more suitably qualified experts; and

    b) Be prepared in consultation with Te Rūnanga o Arowhenua, Te Rūnanga o Moeraki, Te Rūnanga o Waihao and the Department of Conservation; and

c) Identify the priorities for achieving the objective of the IBEP over the Strategic Plan Period; and

d) Identify the key implementation milestones to be achieved over the Strategic Plan Period in accordance with the priorities; and

e) Identify the monitoring that will be used to demonstrate the achievement of the milestones that are set out in the Strategic Plan over the Strategic Plan Period; and

f) Identify the governance, management, and delivery arrangements for the IBEP over the Strategic Plan Period.

29. For each Strategic Plan prepared, prior to its finalisation, the consent holder must:

a. Provide a copy of a draft Strategic Plan to the Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager; and

b. Provide an opportunity, not less than 10 working days from receiving the Draft Strategic Plan, for the RMA Compliance and Enforcement Manager to provide comments to the consent holder on the content of the Draft Strategic Plan.

30. A report must be provided to the Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager within six months of the completion of each Strategic Plan implementation period. The report must:

a) Be prepared by one or more suitably qualified experts; and

b) Identify whether the key milestones set out in the Strategic Plan were achieved; and

c) Identify whether the monitoring undertaken was appropriate for demonstrating whether the milestones in the Strategic Plan were achieved; and

d) Identify if any milestones were not achieved, and if so, the causes of non-achievement and any matters that should be revised in the next Strategic Plan.

31. The initial Strategic Plan must include (without limitation) a focus on the following:

a) Takapō Catchment:

i) Restoration of key representative sites on the river, other waterbodies and connected environs within the braid plain;

ii) Wetland enhancement;

iii) Island creation;

iv) Management of the pressures on connected environs within the braid plain (e.g. animal pests and weeds); and

v) Restoration of two bay areas on Lake Takapō;

b) Pūkaki, Upper and Lower Ōhau River catchments: Representative sites with animal pests and weed management in lower river reaches focused on threatened species hotspots and areas of terrestrial braid plain; and

c) Lower Waitaki River Catchment: Restoration of braid plains and side streams, wetland enhancement, island creation, management of the pressures on connected environs within the braid plain (i.e. animal pests and weeds); and

d) Identification and prioritisation of research to address identified knowledge gaps.

32. To implement the Strategic Plan an Annual Plan must be developed and implemented. The Annual Plan is to:

a) Be prepared by one or more suitably qualified experts; and

b) Identify the specific actions and outputs that are to be the focus for the forthcoming year covered by the Plan, consistent with the strategic plan.

33. A copy of each Annual Plan must be provided to the Canterbury Regional Council prior to the implementation period for that Annual Plan.

34. A report must be provided to the Canterbury Regional Council, attention: RMA Compliance and Enforcement within three months of the end of each Annual Plan implementation period. The report must:

a. Be prepared by one or more suitably qualified experts; and

b. Identify the actions and outcomes that were undertaken over the previous Annual Plan period, and

i. If any actions and outcomes were not achieved, identify the causes of non-achievement, and

ii. If similar actions and outcomes are to be undertaken in future, identify what matters should be revised, and

c. Identify progress towards achievement of the Strategic Plan.

35. A copy of each Strategic Plan (condition 26), report on each Strategic Plan (condition 30), Annual Plan (condition 32) and report on the Annual Plan (condition 34) must be provided to Te Rūnanga o Arowhenua, Te Rūnanga o Moeraki, Te Rūnanga o Waihao, the Canterbury Regional Council and the Department of Conservation.

LAKESHORE EROSION MANAGEMENT PLAN

36. The consent holder must prepare and implement a Lakeshore Erosion Management Plan for Lake Takapō / Tekapo following consultation with Te Rūnanga o Arowhenua, Te Rūnanga o Moeraki, Te Rūnanga o Waihao. The purpose of the erosion

management plan is to provide a methodology to identify, avoid and/or mitigate lakeshore hazards resulting from the operation of the Tekapo Power Scheme through monitoring and assessment of shore change.

37. In order to achieve the purpose set out in condition 36, the Lakeshore Erosion Management Plan must, as a minimum, address the following matters:

    (a) The erosion monitoring locations along Lake Takapō / Tekapo including those areas identified in Figures 1 and 2 of the document "Tekapo Power Scheme re-consenting: Lakeshore geomorphology and processes Existing environment and future effects", 2022, prepared by Shore Processes and Management Ltd which show the projected effects on the physical lakeshore environment of the continued operation of the scheme under the existing operating regimen and which may require consideration of management options within the next 35 years;

    (b) The frequency of monitoring, including following significant storm events;

    (c) The lake level record and an assessment of the potential effects on the lakeshore geomorphology since the last inspection;

    (d) A method for assessment of the wave environment since the last inspection;

    (e) A method for assessment of shore change; and

    (f) A method for identification and quantification of the extent and magnitude of change;

    (g) How effects attributable to the Tekapo Power Scheme will be determined;

    (h) A method for identification of and timeframe for implementation of remedial options that may be required, noting that the nature of any remedial options required will depend on the location and specific erosion effect identified; and

    (i) Provision for, and timing of, reporting on monitoring undertaken in accordance with the Lakeshore Erosion Management Plan and on the actions required in response to that monitoring.

    Advice note: this consent does not authorise any remediation works which may require resource consent.

38. Within six months of the commencement of this resource consent, the consent holder must submit the Lakeshore Erosion Management Plan to the Canterbury Regional Council attention: RMA Compliance and Enforcement Manager for certification that the matters in condition 37(a) to (i) have been addressed.

ANNUAL REPORTING

39. The consent holder must compile an Annual Report which covers the period of 1 July to 30 June for the activities authorised by this consent and forward that report to the Canterbury Regional Council attention: RMA Compliance and Enforcement Manager by 30 September of each year. As a minimum the report must:

    (a) Summarise the data (including flow) collected in accordance with conditions 12 and 13 of resource consent [*insert consent number*] and condition 7 of resource consent [*insert consent number*] and provide archive quality data (corrected to account for calibration/rating changes, maintenance or to remove erroneous data) collected in accordance with those conditions.

    (b) Provide flow verification evidence using the methods defined in conditions 12 and 13 of resource consent [*insert consent number*] and condition 7 of resource consent [*insert consent number*], including, but not limited to:

        i. A description of the locations where verification data is collected;

        ii. A description of the methodology used for verification of data records for each location for which records are collected;

        iii. Any change in instrumentation or calibration of the measurement devices or systems used;

        iv. Records of physical Lake Tekapo / Takapō water level measurements;

        v. Flow gauging records; and

        vi. Summary statistics including stage/gate-position to flow rating(s).

    (c) Critically analyse the information collected in accordance with the conditions of resource consents [*insert consent numbers*], in terms of compliance and potential or actual adverse environmental effects.

    (d) Compare data with previously collected and reported results and identify and comment on any emerging trends.

    (e) Critically evaluate the performance of the procedures and physical mechanisms in place to minimise any adverse effects associated with the exercise of resource consents [*insert consent numbers*], identify any improvements undertaken and make recommendations on any additional improvements needed, with respect to procedures or mechanisms relating to the exercise of resource consents [*insert consent numbers*].

    (f) Include the work actions undertaken and the outcomes achieved during the previous year under the Annual Plan prepared in accordance with condition 32, including:

i) If any actions and outcomes were not achieved, identifying the causes of non-achievement and

ii) If similar actions and outcomes are to be undertaken in future, identify what matters should be revised; and

iii) Identifying progress towards achievement of the Strategic Plan identified in condition 26.

(g) Comment on management of any high flow events during the year that involved implementation of the HFMP required under condition 5 including any matters where management of such events could be improved.

(h) Summarise any events where water is released for recreational purposes during the reporting year.

(i) Comment on the results of any monitoring undertaken in accordance with condition 36 and any actions required in response to that monitoring.

(j) Provide a summary of the maintenance (including any maintenance, changes or upgrades to monitoring equipment used that may affect the quality or accuracy of the records collected) undertaken during the reporting period.

MANAGEMENT PLANS

40. The consent holder must at all times operate and maintain the Tekapo Power Scheme in accordance with all management plans required in accordance with conditions 5, 14 and 36 submitted to, and if required, certified by, the Canterbury Regional Council as part of the conditions of resource consents [*insert consent numbers*].

REVIEW

41. At any time, Canterbury Regional Council may, following service of notice on the consent holder, commence a review of the conditions of resource consents [*insert consent numbers*] pursuant to section 128(1) of the Resource Management Act 1991 to review the effectiveness of the conditions in resource consents [*insert consent numbers*] in avoiding or mitigating any unanticipated more than minor adverse effects on water resources from the exercise of this consent and, if necessary, to avoid, remedy or mitigate such effects by way of further or amended conditions.

42. At any time during the years 2032, 2039, 2046 and 2053, Canterbury Regional Council may, following service of notice on the consent holder, commence a review of the conditions of resource consents [*insert consent numbers*] pursuant to section 128(1) of the Resource Management Act 1991 for the following purposes:

(a) To review the adequacy of monitoring undertaken by the consent holder and, if necessary, to address any inadequacy by way of further or amended conditions; or

(b) To review the appropriateness of any diversion, take rate and/or take volume specified within this consent to deal with any adverse effect on the environment which may arise from the exercise of resource consents [*insert consent numbers*]; or

(c) To review the appropriateness of any discharge rate and/or volume specified within this consent to deal with any adverse effect on the environment which may arise from the exercise of resource consents [*insert consent numbers*]; or

(d) To review the appropriateness of any conditions in Schedule One to give effect to the management plans required by conditions 5, 14 and 36 in Schedule One.

43. The Canterbury Regional Council may, following service of notice on the consent holder, commence a review of conditions 23 to 35 of this consent at any time within six months of the delivery to the Canterbury Regional Council, attention: RMA Compliance and Enforcement of each strategic plan review report as required by condition 30. The review shall enable the consent authority to amend or add conditions to ensure that the IBEP remains effective and appropriate to achieve its objective over the duration of the consent.

Appendix 1: Water Quantities – Annual Volumes for Activities

Note: units = millions of m^3 per year.

		Town and Community water supplies	Industrial and commercial activities (outside municipal or town supply areas)	Tourism and recreational facilities	Agricultural and horticultural activities	Mahinga Kai	Any other activities	Hydroelectricity generation
i.	Upstream of Takapō / Lake Tekapo outlet	1.6	NIL	0.6	275[A], except that: a. no more than 8 can be taken upstream of Takapō / Lake Tekapo outlet. b. no more than 8 can be taken upstream of Lake Pūkaki outlet. c. no more than 12 can be taken upstream of Lake Ōhau outlet.		NIL	All other inflows
ii.	Upstream of Lake Pūkaki outlet	2.2	0.1	0.6			NIL	All other inflows
iii.	Upstream of Lake Ōhau outlet	1.6	NIL	0.6			NIL	All other inflows except the flows that must be provided into the Ōhau River pursuant to the environmental flow regime
iv.	Upstream of Waitaki Dam but not upstream of the outlets of the glacial lakes[B]	16	6.3	9.5			6.3	All other inflows
v.	Downstream of Waitaki Dam but upstream of Black Point	3	1	2	200	315	16	All other flows except the flows that must remain in the rivers, pursuant to the environmental flow regimes
vi.	Downstream of Waitaki dam but downstream of Black Point	19	8.5	4.3	1100		112 plus an allocation of 32 reserved for the augmentation of Wainono Lagoon.	

A. While the consents to operate the Waitaki power scheme remain in force, the Upper Catchment is already fully allocated to a holder of those consents and other existing consent holders.

B. For the purposes of Rule 6 of the Waitaki Catchment Water Allocation Regional Plan (2016), the annual volumes for taking, using or diverting water from the canals leading from the glacial lakes, and those from the Ahuriri catchment, are considered downstream of the lake outlets and are covered in row iv of this table.