

PUKAKI IRRIGATION COMPANY LIMITED applied for the following resource consents:

CRC062866: Construct, maintain and operate an irrigation intake structure at Lake Pukaki, at or about map reference NZMS 260 H38:822-652.

CRC062870: Construct and maintain a pipeline under the Pukaki River at or about map reference NZMS 260 H38:822-637 to H38:827-637.

CRC062871: Construct and maintain a pipeline under three unnamed ephemeral streams, or install culverts in these streams, at or about map references NZMS 260 H38:836-631, H38:843-630 and H38:849-634, or NZMS 260 H38:835-636, H38:845-637 and H38:860-640.

CRC062872: Construct, maintain and operate erosion control and discharge structures in the Pukaki River at or about map references NZMS 260 H38:874-563 and H38:880-540.

CRC082300: Construct and maintain a pipeline under four unnamed ephemeral streams, to enable a water supply to pass under the streams, between map references NZMS 260 H38:878-657 and H38:879-657; NZMS 260 H38:845-641 and H38:846-641; NZMS 260 H38:848-642 and H38:849-642; and NZMS 260 H38:861-643 and H38:862-643; adjacent to Lake Pukaki, State Highway 8, south of Tekapo Stilling Basin.

CRC062866: Construct, maintain and operate an irrigation intake structure at Lake Pukaki, at or about map reference NZMS 260 H38:822-652.

	PROPOSED APPLICANT CONDITION	CRC COMMENT
	Limitation on Works	
1	(a) Works in the bed and banks of Lake Pukaki shall be limited to construction, operation, and maintenance of: (i) an irrigation intake structure, consisting of a submersible pump and 1300mm diameter pipeline, sufficient to carry a maximum flow of 3400 litres per second; (ii) erosion protection works.	
2	Works shall only be carried out within the bed and banks of Lake Pukaki between map reference NZMS 260 H38:822-659 and H38:822-652, which will enable the proposed intake structure to extend below the minimum lake level of 518 metres above mean sea level.	
3	Prior to commencing excavation, a copy of this resource consent shall be given to all persons undertaking activities authorised by this consent.	
4	The Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager shall be notified not less than 48 hours prior to the commencement of works.	
5	Works to install the intake structure and erosion protection described in Condition 1 shall take no longer than 2 months to complete.	
6	Works shall not be carried out on weekends or public holidays.	
7	If further excavation at the site, within the bed or banks of the lake, is not to occur within seven days following the last working at the site, then the following shall occur: (a) All deposits of gravel, sand and other natural material shall be levelled to the natural level of the lake bed and banks; (b) The excavation area shall be reshaped and formed to a state consistent with the surrounding natural lake bed and banks.	
8	There shall be no stockpiling of material at the works site.	
9	(a) All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery. (b) There shall be no storage of fuel or refuelling of vehicles and machinery within 20 metres of the bed of a river. (c) Fuel shall be stored securely or removed from	

	site overnight.	
10	Cement shall be stored securely or removed from site overnight.	
11	Machinery shall be free of plants and plant seeds prior to arrival at the works site, and prior to use within the lake bed.	
12	To prevent the spread of <i>Didymo</i> or any other aquatic pest, the consent holder shall ensure that activities authorised by this consent are undertaken in accordance with the Biosecurity New Zealand's hygiene procedures.	
13	All practicable measures shall be undertaken to minimise adverse effects on property, amenity values, wildlife, vegetation, and ecological values.	
14	The consent holder shall ensure that no construction or maintenance work is undertaken within 100m of any bird breeding or nesting sites.	
15	Works shall not cause erosion of the banks and bed of Lake Pukaki.	
16	All practicable measures shall be undertaken to minimise the discharge of sediment to Lake Pukaki, arising from the works.	
17	Works in water shall be kept to the minimum practicable to undertake the works.	
18	All spoil and other waste material from the works shall be removed from site on completion of works.	
19	Upon completion of works, the site shall be restored to its original condition, as far as is practicable.	
	Accidental Discovery Protocol	
20	In the event of any disturbance of Koiwi Tangata (human bones) or taonga (treasured artefacts), the consent holder shall immediately: <ul style="list-style-type: none"> (a) Advise the Canterbury Regional Council of the disturbance; (b) Advise Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao, and Te Rūnanga o Moeraki, or their representative, and the New Zealand Historic Places Trust, of the disturbance; and (c) Cease earthmoving operations in the affected area until an area has been marked off around the site, and Kaumatua and archaeologists have given approval for the earthmoving to recommence. 	
	Review of Conditions	
21	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 dealing with any adverse effect on the environment which	

	may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.	
	Lapsing of Consent	
22	The lapsing date for the purposes of section 125 shall be five years from the date of the issuance of the consent.	

CRC062870: Construct and maintain a pipeline under the Pukaki River at or about map reference NZMS 260 H38:822-637 to H38:827-637.

	PROPOSED APPLICANT CONDITION	CRC COMMENT
	Limitation on Works	
1	<p>(a) Works in the bed and banks of the Pukaki River shall be limited to construction, operation, and maintenance of an irrigation supply pipeline, including:</p> <ul style="list-style-type: none"> (i) excavation of a trench up to 12 metres wide, 500 metres long, and 5.3 metres deep; and (ii) installation of a concrete encased 1300mm diameter pipeline. <p>(b) The pipeline described in 1(a) shall be buried to a depth of 4 metres below lowest bed level.</p>	
2	Works shall only be carried out within the bed and banks of the Pukaki River between map references NZMS 260 H38:822-637 to H38:828-637, to ensure the buried pipeline extends the full width of the river bed.	
3	Prior to commencing excavation, a copy of this resource consent shall be given to all persons undertaking activities authorised by this consent.	
4	The Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager shall be notified not less than 48 hours prior to the commencement of works.	
5	Works to install the intake structure and erosion protection described in Condition 1 shall take no longer than 4 months to complete.	
6	<p>If the applicant is aware that flow release from Pukaki Spillway is planned within the next 48 hours, then the following shall occur:</p> <ul style="list-style-type: none"> (a) All deposits of gravel, sand and other natural material shall be levelled to the natural bed level; and (b) Reject material and equipment shall be removed from the river bed; and (c) Measures shall be undertaken to prevent the discharge of sediment to Pukaki River arising from the works. 	
7	<p>If further excavation at the site, within the bed or banks of the river, is not to occur within seven days following the last working at the site, then the following shall occur:</p> <ul style="list-style-type: none"> a. All deposits of gravel, sand and other natural material shall be levelled to the natural bed level; and b. The excavation area shall be reshaped and formed to a state consistent with the surrounding natural river bed. 	
8	There shall be no stockpiling of materials within the bed or banks of the river.	
9	<ul style="list-style-type: none"> (a) All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery. (b) There shall be no storage of fuel or refuelling of vehicles and machinery within 20 metres of the bed of a river. (c) Fuel shall be stored securely or removed from site 	

	overnight.	
10	Cement shall be stored securely or removed from site overnight.	
11	Machinery shall be free of plants and plant seeds prior to arrival at the works site, and prior to use within the river bed.	
12	To prevent the spread of <i>Didymo</i> or any other aquatic pest, the consent holder shall ensure that activities authorised by this consent are undertaken in accordance with the Biosecurity New Zealand's hygiene procedures.	
13	Habitats and communities of significant indigenous flora, including threatened species, present within the site of works shall be identified prior to commencement of works, and all practicable measures shall be undertaken to avoid effects on species identified.	
14	All practicable measures shall be undertaken to minimise adverse effects on property, amenity values, wildlife, vegetation, and ecological values.	
15	Works shall not occur when birds are nesting or rearing their young within 100 metres of the site of works.	
16	Access to the Pukaki River for the purposes of river engineering, erosion control and flood protection shall be maintained throughout the period of works.	
	Accidental Discovery Protocol	
17	In the event of any disturbance of Koiwi Tangata (human bones) or taonga (treasured artefacts), the consent holder shall immediately: <ul style="list-style-type: none"> (a) Advise the Canterbury Regional Council of the disturbance; (b) Advise Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao, and Te Rūnanga o Moeraki, or their representative, and the New Zealand Historic Places Trust, of the disturbance; and (c) Cease earthmoving operations in the affected area until an area has been marked off around the site, and Kaumatua and archaeologists have given approval for the earthmoving to recommence. 	
	Completion of Works	
18	After installation of the pipeline described in Condition 1, the trench shall be backfilled over the pipeline with excavated material, compacted to 98% of optimum dry density.	
19	All spoil and other waste material from the works shall be removed from site on completion of works.	
20	Upon completion of works, the site shall be restored to its original condition, as far as is practicable, including, but not limited to, levelling the excavated area to the level of surrounding river bed and covering the area with river stones consistent with the surrounding river bed.	
	Review of Conditions	
21	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 dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.	
	Lapsing of Consent	
22	The lapsing date for the purposes of section 125 shall be 5 years from the date of the issuance of the consent.	

CRC062871: Construct and maintain a pipeline under three unnamed ephemeral streams, or install culverts in these streams, at or about map references NZMS 260 H38:836-631, H38:843-630 and H38:849-634, or NZMS 260 H38:835-636, H38:845-637 and H38:860-640.

	PROPOSED APPLICANT CONDITION	CRC COMMENT
	Limitation on Works	
1	<p>Works in the bed and banks of ephemeral streams shall be limited to installation, operation, and maintenance of three irrigation supply canal crossings, including:</p> <p>(a) Installation of two 1300mm diameter culvert pipes, to pass beneath the irrigation supply canal, within the bed of the first and second ephemeral streams; and</p> <p>(b) Construction of an irrigation supply canal up to 15 metres wide between the toe of each embankment, up to 5.5 metres wide between the crest of each embankment, and up to 3.5 metres high at the crest of each embankment, across the bed of the first and second ephemeral streams; and</p> <p>(c) Installation of erosion protection works within the bed and banks of the first and second ephemeral streams, upstream and downstream of the proposed canal crossing, and</p> <p>(d) Installation of a concrete encased 1300mm pipeline at a depth of up to five metres below the lowest bed level, under the bed of the third ephemeral stream, to act as a siphon between two sections of the irrigation supply canal.</p>	
2	<p>(a) Works described in 1(a) and 1(b) above shall only be carried out within the bed and banks of the first ephemeral stream at map reference NZMS 260 H38:836-631 or map reference NZMS 260 H38:835- 36, and within the bed and banks of the second ephemeral stream at map reference NZMS 260 H38:843-630 or map reference NZMS 260 H38:845-637.</p> <p>(b) Works described in 1(c) above shall only be carried out within the bed and banks of the third ephemeral stream at map reference NZMS 260 H38:849-634 or map reference NZMS 260 H38:860-640.</p>	
3	Prior to commencing excavation, a copy of this resource consent shall be given to all persons undertaking activities authorised by this consent.	
4	The Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager shall be notified not less than 48 hours prior to the commencement of works.	

5	There shall be no stockpiling of materials within the bed or banks of ephemeral streams.	
6	Works shall not occur in flowing water.	
7	(a) All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery. (b) There shall be no storage of fuel or refuelling of vehicles and machinery within 20 metres of the bed of a river. (c) Fuel shall be stored securely or removed from site overnight.	
8	Cement shall be stored securely or removed from site overnight.	
9	Machinery shall be free of plants and plant seeds prior to arrival at the works site, and prior to use within the bed of ephemeral streams.	
10	Habitats and communities of significant indigenous flora, including threatened species, present within the site of works shall be identified prior to commencement of works, and all practicable measures shall be undertaken to avoid effects on species identified.	
11	Works shall occur from established access roads and tracks, as far as practicable, to minimise disturbance of flora and fauna present within, and adjacent to, the site of works.	
12	All practicable measures shall be undertaken to minimise adverse effects on property, amenity values, wildlife, vegetation, and ecological values.	
13	Works shall not cause erosion of the banks and bed of the ephemeral stream.	
14	Works shall not adversely affect the flood carrying capacity of ephemeral streams.	
15	Batters and side castings formed shall be stabilised by appropriate measures such as seeding, re-vegetation, compacting and/or drainage.	
16	Works shall not occur when birds are nesting or rearing their young within 100 metres of the site of works.	
	Accidental Discovery Protocol	
17	In the event of any disturbance of Koiwi Tangata (human bones) or taonga (treasured artefacts), the consent holder shall immediately: (a) Advise the Canterbury Regional Council of the disturbance; (b) Advise Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao, and Te Rūnanga o Moeraki, or their representative, and the New Zealand Historic Places Trust, of the disturbance; and (c) Cease earthmoving operations in the affected	

	area until an area has been marked off around the site, and Kaumatua and archaeologists have given approval for the earthmoving to recommence.	
	Completion of Works	
18	All spoil and other waste material from the works shall be removed from site on completion of works.	
19	Upon completion of works in the ephemeral streams, the sites shall be restored to their original condition, as far as is practicable, including, but not limited to, levelling the excavated areas to the level of the surrounding river bed and covering the area with river stones consistent with the surrounding river bed.	
20	The culverts shall be maintained in good working order.	
21	In the event of any damage to the canals, culverts or pipeline, the consent holder shall maintain the flood carrying capacity of the affected ephemeral stream and take all practicable measures to minimise erosion.	
	Review of Conditions	
22	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 dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.	
	Lapsing of Consent	
23	The lapsing date for the purposes of section 125 shall be 5 years from the grant of this consent.	

CRC062872: Construct, maintain and operate erosion control and discharge structures in the Pukaki River at or about map references NZMS 260 H38:874-563 and H38:880-540.

	PROPOSED APPLICANT CONDITION	CRC COMMENT
	Limitation on Works	
1	<p>Works in the bed and banks of the Pukaki River shall be limited to the installation, operation and maintenance of two discharge structures, and associated erosion protection works, including:</p> <p>(a) Installation of two weirs, up to 20 metres wide and up to 5 metres high, designed to carry flows of up to 1,531 litres per second each, at the exit of irrigation supply races in two locations; and</p> <p>(b) Installation of concreted rock protection within the banks of the river, within an area up to 20 metres wide and up to 100 metres long, immediately downstream of each weir; and</p> <p>(c) Installation of rock rip rap within the banks of the river, within an area up to 10 metres wide and 20 metres long, immediately downstream of each area of concreted rock protection; and</p> <p>(d) Excavation of a discharge channel up to 10 metres wide, 5 metres deep and 100 metres long, immediately downstream of each weir.</p>	
2	Works described in Condition 1 above shall only be carried out within the bed and banks of Pukaki River at map reference NZMS 260 H38:874-563 and H38:880-540.	
3	Prior to commencing excavation, a copy of this resource consent shall be given to all persons undertaking activities authorised by this consent.	
4	The Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager shall be notified not less than 48 hours prior to the commencement of works.	
5	<p>If the applicant is aware that flow release from Pukaki Spillway is planned within the next 48 hours, then the following shall occur:</p> <p>(a) All deposits of gravel, sand and other natural material shall be levelled to the natural bed level; and</p> <p>(b) Reject material and equipment shall be removed from the river bed; and</p> <p>(c) Measures shall be undertaken to prevent the discharge of sediment to Pukaki River arising from the works.</p>	
6	If further excavation at the site, within the bed or banks of the river, is not to occur within seven days following the last working at the site, then the following shall occur:	

	<p>(a) All deposits of gravel, sand and other natural material shall be levelled to the natural bed level; and</p> <p>(b) The excavation area shall be reshaped and formed to a state consistent with the surrounding natural river bed; and</p>	
7	There shall be no stockpiling of materials within the bed or banks of Pukaki River.	
8	Works shall not occur in flowing water.	
9	<p>(a) All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery.</p> <p>(b) There shall be no storage of fuel or refuelling of vehicles and machinery within 20 metres of the bed of a river.</p> <p>(c) Fuel shall be stored securely or removed from site overnight.</p>	
10	Cement shall be stored securely or removed from site overnight.	
11	Machinery shall be free of plants and plant seeds prior to arrival at the works site, and prior to use within the bed of ephemeral streams.	
12	To prevent the spread of <i>Didymo</i> or any other aquatic pest, the consent holder shall ensure that activities authorised by this consent are undertaken in accordance with the Biosecurity New Zealand's hygiene procedures.	
13	Habitats and communities of significant indigenous flora, including threatened species, present within the site of works shall be identified prior to commencement of works, and all practicable measures shall be undertaken to avoid effects on species identified.	
14	Works shall occur, as far as practicable, from established access roads and tracks, to minimise disturbance of flora and fauna present within, and adjacent to, the site of works.	
15	All practicable measures shall be undertaken to minimise adverse effects on property, amenity values, wildlife, vegetation, and ecological values.	
16	Works shall not cause erosion of the banks and bed of the Pukaki River.	
17	Works shall not adversely affect the flood carrying capacity of the Pukaki River.	
18	Works shall not occur when birds are nesting or rearing their young within 100 metres of the site of works.	
	Accidental Discovery Protocol	
19	In the event of any disturbance of Koiwi Tangata (human bones) or taonga (treasured artefacts), the consent holder shall immediately:	

	<p>(a) Advise the Canterbury Regional Council of the disturbance;</p> <p>(b) Advise Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao, and Te Rūnanga o Moeraki, or their representative, and the New Zealand Historic Places Trust, of the disturbance; and</p> <p>(c) Cease earthmoving operations in the affected area until an area has been marked off around the site, and Kaumatua and archaeologists have given approval for the earthmoving to recommence.</p>	
20	All spoil and other waste material from the works shall be removed from site on completion of works.	
	Completion of Works	
21	Upon completion of works, the site adjacent to installed structures shall be restored to its original condition, as far as is practicable.	
22	The weirs and erosion protection works shall be maintained in good working order.	
23	In the event of any damage to the weirs and erosion protection works, the consent holder shall maintain the flood carrying capacity of the Pukaki River and take all practicable measures to minimise erosion.	
	Review of Conditions	
24	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 dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.	
	Lapsing of Consent	
25	The lapsing date for the purposes of section 125 shall be 5 years after the date of the grant of this consent.	

CRC082300: Construct and maintain a pipeline under four unnamed ephemeral streams, to enable a water supply to pass under the streams, between map references NZMS 260 H38:878-657 and H38:879-657; NZMS 260 H38:845-641 and H38:846-641; NZMS 260 H38:848-642 and H38:849-642; and NZMS 260 H38:861-643 and H38:862-643; adjacent to Lake Pukaki, State Highway 8, south of Tekapo Stilling Basin.

	PROPOSED APPLICANT CONDITION	CRC COMMENT
	Limitation on Works	
1	Works in the bed and banks of ephemeral streams shall be limited to installation, operation, and maintenance of a buried irrigation supply pipeline, including: <ul style="list-style-type: none"> (a) Installation of a 1300mm diameter pipe within the bed of the ephemeral stream at the first crossing point; and (b) Installation of a 300mm diameter pipe within the bed of ephemeral streams at the second, third and fourth crossing points. 	
2	<ul style="list-style-type: none"> (a) Works described in 1(a) above shall only be carried out within the bed and banks of the ephemeral stream at the first crossing point between map references NZMS 260 H38:878-657 and H38:879-657. (b) Works described in 1(b) above shall only be carried out within the bed and banks of ephemeral streams at the second crossing point between map references NZMS 260 H38:845-641 and H38:846-641, the third crossing point between map references NZMS 260 H38:848-642 and H38:849-642, and the fourth crossing point between map references NZMS 260 H38:861-643 and H38:862-643. 	
3	Prior to commencing excavation, a copy of this resource consent shall be given to all persons undertaking activities authorised by this consent.	
4	The Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager shall be notified not less than 48 hours prior to the commencement of works.	
5	There shall be no stockpiling of materials within the bed or banks of ephemeral streams.	
6	Works shall not occur in flowing water.	
7	<ul style="list-style-type: none"> (a) All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery. (b) There shall be no storage of fuel or refuelling of vehicles and machinery within 20 metres of the bed of a river. (c) Fuel shall be stored securely or removed from site overnight. 	

8	Machinery shall be free of plants and plant seeds prior to arrival at the works site, and prior to use within the bed of ephemeral streams.	
9	Habitats and communities of significant indigenous flora, including threatened species, present within the site of works shall be identified prior to commencement of works, and all practicable measures shall be undertaken to avoid effects on species identified.	
10	Works shall occur, as far as practicable, from established access roads and tracks, to minimise disturbance of flora and fauna present within, and adjacent to, the site of works.	
11	All practicable measures shall be undertaken to minimise adverse effects on property, amenity values, wildlife, vegetation, and ecological values.	
12	Works shall not cause erosion of the banks and bed of the ephemeral streams.	
13	Works shall not occur when birds are nesting or rearing their young within 100 metres of the site of works.	
	Accidental Discovery Protocol	
14	In the event of any disturbance of Koiwi Tangata (human bones) or taonga (treasured artefacts), the consent holder shall immediately: (a) Advise the Canterbury Regional Council of the disturbance; (b) Advise Te Rūnanga o Arowhenua, and Te Rūnanga o Waihao, and Te Rūnanga o Moeraki, or their representative, and the New Zealand Historic Places Trust, of the disturbance; and (c) Cease earthmoving operations in the affected area until an area has been marked off around the site, and Kaumatua and archaeologists have given approval for the earthmoving to recommence.	
	Completion of Works	
15	All spoil and other waste material from the works shall be removed from site on completion of works.	
16	Upon completion of works the sites shall be restored to their original condition, as far as is practicable, including, but not limited to, levelling the excavated area to the level of the surrounding stream bed.	
17	In the event that works cause damage to stream banks, remedial works shall be undertaken to restore bank stability.	
	Review of Conditions	
18	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 dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.	
	Lapsing of Consent	
19	The lapsing date for the purposes of section 125 shall be 5 years from the date of the granting of this consent.	