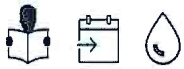


# FORM 4 RESOURCE CONSENT APPLICATION



**To take and use surface water**

This application is made under Section 88 of the  
Resource Management Act 1991

Phone: 0800 474 082  
Website: [www.orc.govt.nz](http://www.orc.govt.nz)

## IMPORTANT NOTES TO THE APPLICANT

### Disclaimer:

If Otago Regional Council (the Council) accepts your application for processing this does not constitute a guarantee that water allocation is available.

You should contact a Consents Officer in regard to water availability **before** you lodge your application.

Ensure that you complete this application Form 4 **and** Resource Consent Application Form 1 **in full**

For any consent application to be processed efficiently in the minimum time and at minimum cost, it is important that all relevant information is included with the application. If the necessary information is not entered on the form or supplied with the application then the Council may **reject your application**, request further information or publicly notify your application. This will lead to delays in the processing of your application and may increase processing costs. The Council advises as a precaution, applications for replacement water permits should be lodged at least **6 months** prior to their expiry, to ensure allocation is retained. Please note that an application to replace an existing water permit that has not been **lodged and received** by the Council at least **3 months** prior to its expiry, may lose its allocation.

This application form, when properly completed, together with form 1 and the fee deposit should provide a complete application, where the adverse effects of a proposal are not significant. However, this can only be determined on application.

## PART A: GENERAL

### A.1 Is this application for *(tick which applies)*:

a NEW surface water take; or

an application to REPLACE a current Water Permit?

Water Permit number: \_\_\_\_\_ Expiry date: \_\_\_\_\_

an application to REPLACE a current Deemed Permit?

Deemed Permit number: Resource Consent No. 97803.V1 Expiry date: \_1 Oct 2021\_  
Resource Consent No. 2008.519

an application to REPLACE a current Mining Privilege?

Mining Privilege number: \_WR 7284; 7285; 7286 ; 7298\_\_\_\_\_

If you are applying to take groundwater, move the point of take for a water permit/deemed permit/mining privilege or vary a condition of an existing Water Permit or Deemed Permit, **stop now** and please use Forms 5, 16 or Form 22 instead.

**A.2 If you are applying to replace an existing Water Permit, Deemed Permit or Mining Privilege, do you have evidence of the amount of water historically abstracted under the permit?**

Yes, my records are attached with the application. Refer Appendix X

Yes, the Council has my records. *Note: You will be charged for all time spent retrieving and analysing records held on Council files*

If neither of the above are ticked, you must provide evidence of the previous use of the water over the last 5 years. This should be evidence of how much has been used each year over what period.

**PART B: DESCRIPTION OF THE POINT OF TAKE**

**B.1 What are the GPS co-ordinates of the location of the point(s) of take from which surface water is proposed to be taken?**

|                                       |                                |           |
|---------------------------------------|--------------------------------|-----------|
| Point 1: L McKay                      | NZTM 2000 E..... 1300462 ..... | N 5032792 |
| Point 2: L McKay                      | NZTM 2000 E..... 1301861 ..... | N 5033204 |
| Luggate Irrigation (7285; 7286; 7298) | E 1302755                      | N 5037562 |
| Luaggte Irrigation (7284)             | E 1302961                      | N 5037944 |

NB: the ORC monitoring report (26 Jan 2018) incorrectly records the point of take for WR7286 as from the north branch of Luggate Creek but the correct location is from the south branch at the same point of take as the other two permits WR7285, WR7298.

If more than 2, please provide details on a separate sheet

**B.2 What is the name or names of the water body(s) that the taking of water is to be taken from?**

Note: if the water body is unnamed then please note this and state which water body it flows into  
Lake McKay North branch Luggate Creek also know as Alice Burn or Fall Burn .....  
Luggate Irrigation North and South Branches of Luggate Creek.....  
.....

**B.3 Please provide photographs of the proposed point of take (or existing intake structure) and of the water body within the immediate area. (Note: Please date and detail the orientation of each photo). If you are unable to provide photos please give any reasons below.**

Refer attached Water Inspection Sheets Appendix V and VI .....  
.....

**PART C: VOLUME AND RATES OF TAKE**

**C.1 What quantity of water do you propose to take and at what rate will it be taken? Note: 1,000 litres = 1 cubic metre (Note: please take the time to complete this section in full as each of the values listed are required in order to assess an application)**

(a) maximum rate of take                      424.....                      litres per second

- (b) maximum daily volume ..... litres per day; or  
 36547.2 ..... cubic metres per day
- (c) maximum weekly volume 255,829 ..... cubic metres per week
- (d) maximum monthly volume 1,096,416 ..... cubic metres per month
- (e) maximum annual volume 6,578,496 ..... cubic metres per year

**C.2 What is the frequency of your proposed water take?**

- |                               | Average | Maximum |
|-------------------------------|---------|---------|
| (a) How many hours per day?   | 24..... | 24..... |
| (b) How many days per week?   | 7.....  | 7.....  |
| (c) How many weeks per month? | 4.....  | 4.....  |

(d) In which months do you expect to take water? (*tick those relevant*)

|          | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Average  | x    | x   | x   | x   | x   | x   | x   | x   | x   | x   | x   | x   |
| Dry year | x    | x   | x   | x   | x   | x   | x   | x   | x   | x   | x   | x   |

**C.3 Over what part of the day will you typically take water?**

- |  |                                      |
|--|--------------------------------------|
| <input type="checkbox"/> During the day                    | <input type="checkbox"/> X 24 hours  |
| <input type="checkbox"/> During the night                  | <input type="checkbox"/> 'on demand' |
| <input type="checkbox"/> Other <i>please specify</i> ..... |                                      |

**C.4 Are you intending to harvest water for storage before subsequent use?**

- X No, go to question C.6.
- Yes: Capacity of water storage reservoir(s) ..... cubic metres

**C.5 Is your water storage reservoir 3 metres or more in depth and impounds more than 20,000 cubic metres of water?**

- No.
- No, but the water immediately upstream of the dam is more than 3 metres deep and/or the dam stores more than 20,000 cubic metres. (Note: If the dam meets the above criteria and is in a watercourse or captures catchment run off you may require resource consents for damming and associated activities, contact the Duty Consent Officer for more information.
- Yes, a building permit may be required, contact the Duty Consent Officer or visit the Council website [www.orc.govt.nz](http://www.orc.govt.nz).

**C.6 For rivers, streams, modified water courses, springs or drains answer questions (a)-(g), for lakes, ponds and wetlands go to Question C.7.**

(a) What type of water course is identified in B.3 above. *Tick those relevant*

- |                                |   |                                |
|--------------------------------|---|--------------------------------|
| <input type="checkbox"/> River | <input type="checkbox"/> Modified watercourse | <input type="checkbox"/> Drain |
| X Stream                       | <input type="checkbox"/> Spring               |                                |

(b) Is the water course:

- X Perennial (flows all year around)       Ephemeral (flows only as a result of rainfall or snow melt)

- (c) What is the average channel **width** nearest to your proposed point of take? ..... 3 metres
- (d) What is the average channel **depth** nearest to your proposed point of take? ..... 0.5 metres
- (e) What is the estimated average water flow velocity? NA ..... N metres/second
- (f) How would you describe the bed of the water course? *Tick those relevant*  
 Muddy       Boulders       Gravels and cobbles       Sandy       Hard rock
- (g) Are you able to supply estimated minimum and maximum flow rates for the water course?  
 No, go to **Part D**  
 Yes, please complete the following  
Minimum: 180..... litres per second  
Maximum: NA..... litres per second  
Location of estimate:  
 adjacent to proposed point of take       Other SH 6 Bridge

Source of flow data: .....ORC..... Management Flow for Aquatic Ecosystems in Luggate Creek

**C.7 For lakes, ponds and wetlands, answer points (a)-(f) below.**

- (a) What type of water body is identified in B.3 above. *Tick those relevant*  
 Lake       Pond       Wetland

If identified as a wetland, is the wetland classified as a Regionally Significant Wetland?

- Yes       No

(Note: if unsure of this please contact the Duty Consents Officer or visit the Council website [www.orc.govt.nz](http://www.orc.govt.nz).)

- (b) Has the water body been formed by artificial means?  
 Yes       No
- (c) What is the surface area of the lake/pond/wetland? .....
- (d) How deep is the lake/pond/wetland? .....
- (e) Does the lake/pond/wetland have an outlet? i.e. does water flow out of it?  
 Yes       No  
Is the outlet a natural stream  Yes - or an artificial channel or pipe?  Yes
- (f) What is the main source of water that fills the lake/pond/wetland? *Tick as many boxes as is relevant*  
 Springs       Groundwater       Runoff from surrounding land       Direct rainfall  
 Stream/ivers      name: .....
- Other consented water takes:  
consent numbers: .....

## PART D: WATER MEASURING AND REPORTING INFORMATION

The Resource Management (Measurement and Reporting of Water Takes) Regulations 2010 and the Regional Plan: Water require continuous measurement of the water taken and for the daily records to be provided to the Council at the end of the water year. Verification of the device or systems installed is also required. (Note: According to the Regulations the water year is from 1 July through to 30 June in the following year).

D.1 What is the maximum capacity of the pump you propose to install? .....

D.2 Is a water measuring device or system...

Proposed to be installed; or  Already installed

D.3 Is a data logger installed, or proposed to be installed, as part of your water measuring device or system?

No  Yes

(Note: If a data logger is required it will need a minimum of 24 months data storage.)

D.4 Photographs of the measuring device or system if it is currently installed. (see also Question B.3)

### Installation of a Water Measuring Device or System

The Council has standard installation specifications for water meters. The standard installation requirement is:

*The water meter shall be installed in a straight length of pipe, before any diversion of water occurs. The straight length of pipe shall be part of the pump outlet plumbing, easily accessible, have no fittings and obstructions in it. The water meter shall be installed at least 10 times the diameter of the pipe from the pump and at least 5 times the diameter of the pipe.*

D.5 Are you proposing to install your water meter in accordance with the Council Standard Installation specifications outlined in the paragraph above?

Yes  No

If your answer is NO, you need to fill out and attach to this application form a **Non-Standard Installation Form** for Water Measuring Devices available on our Website or through the Environmental Services Unit of the Council.

D.6 The Regulations require the taking of water to be measured at the point of take unless an Exemption is approved by the Council. Is your water measuring device or system installed at the point of take?

Yes  No

If your answer is no, you need to apply for an Exemption by filling out *Application form 24 – Application for Exemption to use a device or system near the location from which water is taken*, which is available on our website [www.orc.govt.nz](http://www.orc.govt.nz) and from our offices.

D.7 The Regulations require the taking of water to be recorded on a daily basis unless an Exemption is approved by the Council. Will you be keeping daily records of your water use?

Yes  No

If your answer is no, you need to apply for an Exemption by filling our *Application form 25 – Application for Exemption to record water use on a weekly basis*, which is available on our website [www.orc.govt.nz](http://www.orc.govt.nz) and from our offices. Please note that only in exceptional circumstance will the Council consider granting an exemption enabling water use to recorded on a weekly basis. In most cases, it will be expected that a datalogger is installed.

**PART E: WATER USE AND MANAGEMENT**

**E.1 Will the water take be managed as part of an existing Water Allocation Committee or Water Management Group?**

- Yes – Water Allocation Committee \_\_\_\_\_
- X  Yes – Water Management Group \_\_\_\_\_
- No

If yes, please describe how the allocation committee/management group operates.

Schedule 2 A of the Otago Regional Plan identifies the minimum flow for the Luggate Catchment is 180 L/sec from November to April and 500 L/sec May to October The minimum flow is to be measured at the SH6 Bridge at Luggate township. This consent if granted be subject to the following rationing scheme which will be implemented if the flows reach the minimum flow which is likely to be in the period of October to April.

The Scheme proposes that each take would be reduced proportionally to achieve to targeted minimum flow. For example if the increase in flow of 100 L / sec was needed to maintain 180 l/sec the following would apply.

**Luggate Creek Minimum flow rationing Scheme**

| Entity      | Permit take | Proposed Take % | Example 100 L/sec | New Take |
|-------------|-------------|-----------------|-------------------|----------|
| CWL         | 601.8       | 59              | 59                | 542.8    |
| Luggate Irr | 254.8       | 25              | 25                | 229.8    |
| Lake McKay  | 168.5       | 16              | 16                | 152.5    |
|             | 1025        | 100             |                   |          |

As outlined the minimum flow is has been set to protect the ecosystem values of the Luggate Creek .

.....  
 .....  
 .....

**E.2 Please describe the property(s) on which the water is to be used.**

- (a) Name of owner(s) Lake McKay Station Ltd / Norman William Pittaway (J E Umbers) / Crystal Rivers Ltd .....
- (b) Address/location Atkin Rd Luggate RD 2 Wanaka.....
- (c) Legal description (as shown on certificate of title attached to this application – see E.3 below)

Lot 2 Deposited Plan 342167 and Section 9,11-12 Survey Office Plan 300466,: Lot 7 CT 232895 : Lot 2-3 Deposited Plan 20911 and Section Survey Office Plan 23723 ( Copies attached Appendix II) .....

If there is more than one property (legal description) please provide these details on a separate sheet.

**E.3 Show on a map (no smaller than A4 size) or acoloured aerial photograph the following details:**

- The location of the point or points of take Appendix 111
- The location of the water measuring device or system Appendix 111
- The total property area boundary Appendix 111
- The area(s) to be irrigated (if relevant) Appendix 111 a
- Area of the community supply (if relevant) Appendix 111 a

- Distances to any discharge activities
- Other surface water bodies and wetlands and distances from the point of take(s) to them
- The coastline and the distance to it (if relevant)
- Location of any dairy shed

**Efficiency of water use**

In this section you are required to only answer the questions relevant to your intended use of water. As a guide the questions are as follows:

- E.4 Irrigation of land (pasture etc)
- E.5 Irrigation of crops or horticulture
- E.6 Frost fighting
- E.7 Industrial use
- E.8 Private community water supply
- E.9 Public community water supply
- E.10 Stock and/or dairy shed use
- E.11 Other

**E.4 Irrigation of land– includes pasture, turf (golf courses), lifestyle blocks and sports fields (not crops or horticulture)**

- (a) How many hectares of land will be irrigated? 616 .....
- (b) What is the total property area (not just that proposed to be irrigated)? 7000ha.....
- (c) What type of irrigation system is to be or is being used?  
 X K-line                       X Centre pivot                       Travelling irrigator  
 Border-dyke/flood irrigation    Other
- (d) How many hectares will be irrigated in one day? NA.....
- (e) For how many hours per day? 24.....
- (f) What is the target (net) application rate?

Big River requirements are based on application of based on 6mm/day or 0.71 l/sec/ha or 1901m<sup>3</sup> per month per ha. This is a pivot scheme which irrigates intensive cropping and has a higher requirement. There is also a loss in the race as current usage shows.

K lines and East Extension are based on the 1575m<sup>3</sup> per month per ha for pasture or 0.6 l/sec/ha.

- (g) How many days are there between irrigating the same block? Pivot 1day K line 7 days .....
- (h) Please describe the soil types of the areas to be irrigated and state the source of this information.

**There are seven main soil types on the property sourced from soil maps compiled by the DSIR in 1965 or latterly by Hewitt in 1998 Land Care Research Science Series No.1. These are as follows:-**

1. Pigburn -very shallow/shallow silt loam
2. Luggate shallow sandy loam
3. Blackstone sandy loam
4. Arrow Steepland soils
5. Koinga Steepland soils
6. Conroy Hill soils
7. Carrick hill soils

**The Pigburn soils have a medium to high natural nutrient status derived from schist alluvium and greywacke, these comprising a small area adjoining SH6, at the eastern end of the property.**

**Lying above this soil group adjacent to the northern boundary are the Koinga Steepland Soils which have a very low natural nutrient status. They are formed from Clutha alluvium and loess, but boulders are common and contour is generally steep to moderately steep.**



Beyond these areas are the Luggate shallow sandy loams of a low to medium natural nutrient status. Derived from loess and Clutha alluvium, these soils are found on flat to easy rolling terraces.

Of greater significance are the Blackstone sandy loam soils which have a high natural nutrient status, also being derived from schist and loess. These soils are found on rolling ridges and downs and are a good adjunct to the Luggate soils.

The Conroy hill soils are of a high natural nutrient status and are located on both the Midrun and Lake McKay sectors of the property – see attached Soil Map. Due in part to the loess component of the soils, extensive sheet erosion has occurred in the past and if cultivated are particularly prone to wind blow. Direct drilling as opposed to cultivation is being used to good effect in this regard. In common with many other soils in this area they are deficient in Sulphur but this may be remedied through the application of Sulphur Super.

- (i) How have you calculated the amount of water you need? (a separate sheet may be needed and attached to this application form)

| Block                    | Use                  | Irrigated area (ha) | LIC Irrigation req (l/s) | LMS Irrigation req (l/s) |
|--------------------------|----------------------|---------------------|--------------------------|--------------------------|
| Big River                | Pasture (0.7 l/s/ha) | 108                 | 75.5                     |                          |
| Loss in water race (10%) |                      |                     | 8                        |                          |
| Stage 1                  | Pasture (0.6 l/s/ha) | 85                  |                          | 51                       |
| Stage 2                  | Pasture (0.6 l/s/ha) | 83                  |                          | 46.6                     |
| Stage 1&2                | stockwater           |                     |                          | 1.5                      |
| Big River                | stockwater           |                     | 1.5                      |                          |
| Sub Total                |                      | 276                 | 85                       | 98                       |

(j)

(k) Future development:

| Block   | Use                  | Irrigated area | Water requirement from LIC permits | Water requirement from LMS permits |
|---|----------------------|----------------|------------------------------------|------------------------------------|
| Pittaway (incl 8 ha of Big River and 22ha by SH6) | Pasture (0.7 l/s/ha) | 100            | 70                                 |                                    |

|   |   |            |           |           |
|---|---|------------|-----------|-----------|
| stockwater  |   |            | 1.5       |           |
| Stage 3   | Pasture<br>(0.6 l/s/ ha)                  | 115        |           | 69        |
| Stage 3<br>stockwater                             |   |            |           | 1.5       |
| Home Block  | Pasture<br>(0.7 l/s/ha)                   | 85         | 60        |           |
| Lifestyle blocks<br>in residential<br>development | Pasture<br>(0.7 l/s/ha)                   | 40 ha      | 28        |           |
| Home Block  | Residential<br>(3000 l/day/<br>household) | 250 houses | 9         |           |
| Sub Total   |   |            | 140.5     | 70        |
|   |   |            |           |           |
| Total<br>Current +<br>Future<br>Total on Permits  |   |            | 253.5     | 168.5     |
| Available   |   |            | 254.7 l/s | 169 8 l/s |
|   |   |            | 1.2 l/s   | 0.7 l/s   |

(l)

(m) Is the area to be irrigated:

- Presently irrigated/developed 276
- Partly irrigated/developed ( .....ha complete .....ha under development)
- Proposed to be irrigated/developed ( 340 ..... likely completion date)

#### E.5 Irrigation of crops or horticulture

- (a) What is the total area to be irrigated? .....
- (b) Show the area of land to be irrigated on the map specified in E.3 and attach to this application.
- (c) What is the total property area (not just that proposed to be irrigated)? .....
- (d) If glass/plastic houses are used, what area do they cover? .....
- (e) What type of crops will be irrigated?
- Grain/wheat                       Pip fruit                       Stone fruit
- Market garden                       Flowers                       Nursery
- Viticulture .....(vines/hectare)

- Nuts
  - Other Horticulture - Cherries .....
- (n) What type of irrigation system is or is proposed to be used?  
 Trickle                      Sprinkler                       Other .....
- (f) How many hectares will be irrigated in one day? .....
- (g) For how many hours per day? .....
- (h) What is the target (net) application rate? .....
- (i) How many days will there be between irrigating the same block? .....
- (j) Please describe the soil types of the areas to be irrigated and state the source of this information.  
 .....  
 ( see above ).....  
 .....  
 .....
- (k) How have you calculated the amount of water you need? (a separate sheet may be needed and attached to this application form)  
 .....  
 .....  
 .....  
 .....
- (l) Is the area to be irrigated:  
 Presently irrigated/developed  
 Partly irrigated/developed ( .....ha complete .....ha under development)  
 Proposed to be irrigated/developed ..... likely completion date)

**E.6 Frost Fighting**

- (a) List the crops, and the area (ha) of each crop, for which frost fighting may be undertaken.  
 .....  
 .....
- (b) How many hours a day? .....
- (c) How many days per year? .....

- (d) How many days on average do you expect a frost when frost fighting is required?
- (e) How have you calculated the amount of water you need? (a separate sheet may be needed and attached to this application form)

.....

.....

.....

.....

.....

**E.7 Industrial Use**

- (a) What type of industry/process will be using the water and how will the water be used?

.....

.....

.....

.....

.....

.....

.....

.....

.....

- (b) How have you calculated the amount of water you need? (a separate sheet may be needed and attached to this application form)

.....

.....

.....

.....

.....

.....

**E.8 Private Community Water Supply**

The council considers efficient water use for a household is 1,000 litres per day in winter and 3,000 litres per day in summer (average 2,000 litres per day). This is derived from wastewater volumes in ASNZ 1547:2000.

- (a) What type of institution uses the water?

- Households – number of households to be supplied: .....
- Camping grounds – maximum number of visitors and staff per year: .....
- Schools - maximum number of students and staff per year:.....
- Motel units – number and expected occupancy .....
- Other: .....

- (b) For applications to supply water to households what is the minimum, maximum and average lot size?

..... Square metres (minimum)

..... Square metres (average)

..... Square metres (maximum)

- (c) How have you calculated the amount of water you need? (a separate sheet may be needed and attached to this application form)

.....  
.....  
.....  
.....  
.....

**E.9 Public Community Water Supply**

The council considers efficient water use for a household is 1,000 litres per day in winter and 3,000 litres per day in summer (average 2,000 litres per day). This is derived from wastewater volumes in ASNZ 1547:2000.

- (a) What population(s) will be served by the supply?

..... General location of population(s)  
250 house holds ..... Approximate number of households

- (b) How have you calculated the amount of water you need? (a separate sheet may be needed and attached to this application form)

.....  
250 X3 000l/day 9l/sec.....  
(max rate of take based on 3000 litres/day or 9 l/s and Annual rate is based on 2000 l/d or 6 l/s continuous flow) ...

**E.10 Stock Water and / or Dairy Shed Use**

The Council considers the following as efficient use of water for stock.

|                |                            |
|----------------|----------------------------|
| Sheep          | 5 litres per day per head  |
| Beef cattle    | 40 litres per day per head |
| Dairy cows     | 70 litres per day per head |
| Deer           | 15 litres per day per head |
| Dairy shed use | 50 litres per day per head |

- (a) What type and how much stock will be supplied with water?

- Sheep number: 7000 ..... water required: 35000 .....litres/head/day
  - Beef cattle number: 250 ..... water required: 10000 .....litres/head/day (0.5 l/sec
  - Dairy cows\* number: ..... water required: .....litres/head/day
  - Other Bull number: 1`200..... water required: 84,000 .....litres/head/day( 1 l/Sec)
- Total requirement 1,5 l/sec

**\* excluding dairy shed usage**Stockwater is calculated by the sum of supply to 3 separate areas being;.  
Tin Hut Terraces + north east area of farm 3 l/s ( current 2 l/s + 1 l/s future)  
Big River area 1.5 l/s (current)  
Pittaway (Umbers) block (1.5 l/s)  
Total = 6 l/s

The amounts for stockwater include flow to enable distribution to the 3 different areas and some losses in the distribution system.

(b) If you have dairy cows, and require water for your dairy shed, please state the estimated volume required

..... Litres/head/day

**E.11 Other**

How have you calculated the amount of water you need? (a separate sheet may be needed and attached to this application form)

.....

.....

.....

.....

.....

**PART F: ASSESSMENT OF ENVIRONMENTAL EFFECTS (AEE)**

An AEE should be proportional to the scale and significance of the proposed activity. Where your proposed take could have significant effects on the surface water resource a more detailed environmental assessment is required.

Note: Environment includes ecosystems, people, communities, all natural and physical resources and amenity values, and social and economic, aesthetic and cultural conditions that affect them.

**F.1 Are there any of the following present within 500 metres of the proposed point of take?**

- |  |                                     |     |                                     |    |
|--|-------------------------------------|-----|-------------------------------------|----|
| (i) Obvious signs or known aquatic biota?            | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/>            | No |
| (ii) Areas where food is obtained from a water body? | <input type="checkbox"/>            | Yes | <input checked="" type="checkbox"/> | No |
| (iii) Natural wetlands?                              | <input type="checkbox"/>            | Yes | <input checked="" type="checkbox"/> | No |
| (iv) Waste discharges?                               | <input type="checkbox"/>            | Yes | <input checked="" type="checkbox"/> | No |
| (v) Recreational activities?                         | <input type="checkbox"/>            | Yes | <input checked="" type="checkbox"/> | No |
| (vi) Areas of special aesthetic value?               | <input type="checkbox"/>            | Yes | <input checked="" type="checkbox"/> | No |
| (vii) Areas or aspects of significance to iwi?       | <input type="checkbox"/>            | Yes | <input checked="" type="checkbox"/> | No |
| (viii) Other water takes (ground or surface)?        | <input type="checkbox"/>            | Yes | <input checked="" type="checkbox"/> | No |

If you have answered 'yes' to any of the above, describe what adverse effects your take may have and the steps you propose to mitigate these effects:

.....

.....

.....

.....

.....

**F.2 Can your instantaneous abstraction rate (litres per second) be reduced by increasing the length of time over which water is taken?**

Yes                      **Over what time period would you take water and at what rate?**

.....  
.....  
.....

No                      **Why not?**

Systems are based on 24 hours and that is the nature of takes .....

.....  
.....

**F.3 What are the positive effects of your proposed take and use? (examples can include any environmental, social and economic benefits of your water take. If you are part of a water management group are there any benefits/good environmental outcomes to being part of this management group. Please explain).**

.....  
Rationing system to maintain minimum flows .....

**F.4 What measures are you proposing to minimise wastage of water and maximise its efficient use?**

None .....

**F.5 How far from the point of taking the water is the use of the water? If the distance is greater than 5 km please explain the reasons for this and why a closer source of water is not available.**

Lake McKay 4 km , Luggate Irrigation 3km .....

**PART G: ALTERNATIVE WATER SUPPLIES**

**G.1 Does your property have alternative water sources available? (such as other water bodies, reticulated supplies, groundwater, other water permits, irrigation schemes?)**

No                       Yes

If yes, Please detail the sources, quantities, uses and any current Water Permit numbers or any takes authorised by permitted activity rules in the Regional Plan: Water for Otago.

Clutha river is available to Luggate Irrigation Ltd but at this point of the river extraction by bore is not feasible .....

**G.2 Have you considered the option of using other sources of water?**

No  Yes

If yes, Please detail the sources, quantities, uses and any Water Permit numbers

Permit 2009.213 issued on July 2010 was for a take from the Clutha.....

**G.3 Explain why you have decided to take water from the proposed surface water source rather than any alternative source?**

Construction of a bore was not possible due to the geology of the river at this point. ....

**PART H: CONSULTATION**

**H.1 Please describe any consultation undertaken with persons/parties potentially affected by your proposed surface water take. This should include parties you identified in F.1**

The application has been sent to the statutory affected parties Aukaha, Te Ao Marama Inc, DoC , Fish and Game Otago, and NZTA as advised by ORC. ....

We are consulting with an upstream water user, Criffel Water Ltd, in regard to the proposed water rationing Agreement, but ORC have advised that Criffel Water Ltd are not an affected party. ....

Written approvals are required from parties who are considered by the Otago Regional Council to be affected by your proposed water take. To reduce costs and processing times, it is recommended that written approval is obtained, and submitted with the application, for parties who may be affected.

**Potential affected parties for surface water takes:**

- )
- Kai Tahu ki Otago Limited
- Nearby consented and permitted activity takers

**H.2 Provide any written approvals using the Council’s standard Form 1 – Resource Consent Application available on our website.**

**PART I: STATUTORY ASSESSMENT**

The Act as of March 2015 requires this application to include an assessment of the proposed activity against the relevant documents. In this case the Regional Policy Statement, the Regional Plan: Water and Iwi Management Plans are the most relevant documents. Answering the following questions will satisfy this requirement:

**I.1. Regional Policy Statement (RPS)**



The objectives and policies of Chapter 6 (Water) are relevant to this application. Is the activity consistent with the relevant provisions of the RPS?

Yes       No

**I.2 Regional Plan: Water - the following policies from the RPW are relevant to this application. :**

Policy 5.4.2 In the management of any activity involving surface water, groundwater or the bed or margin of any lake or river, to give priority to avoiding, in preference to remedying or mitigating:

(1) Adverse effects on:

- (a) Natural values identified in Schedule 1A;
- (b) Water supply values identified in Schedule 1B;
- (c) Registered historic places identified in Schedule 1C, or archaeological sites in, on, under or over the bed or margin of a lake or river;
- (d) Spiritual and cultural beliefs, values and uses of significance to Kai Tahu identified in Schedule 1D;
- (e) The natural character of any lake or river, or its margins;
- (f) Amenity values supported by any water body; and

(2) Causing or exacerbating flooding, erosion, land instability, sedimentation or property damage.

Policy 5.4.3 In the management of any activity involving surface water, groundwater or the bed or margin of any lake or river, to give priority to avoiding adverse effects on:

- (a) Existing lawful uses; and
- (b) Existing lawful priorities for the use, of lakes and rivers and their margins.

Policy 5.4.4 To recognise Kai Tahu's interests in Otago's lakes and rivers by promoting opportunities for their involvement in resource consent processing.

Policy 5.4.8 To have particular regard to the following features of lakes and rivers, and their margins, when considering adverse effects on their natural character:

- (a) The topography, including the setting and bed form of the lake or river;
- (b) The natural flow characteristics of the river;
- (c) The natural water level of the lake and its fluctuation;
- (d) The natural water colour and clarity in the lake or river;
- (e) The ecology of the lake or river and its margins; and
- (f) The extent of use or development within the catchment, including the extent to which that use and development has influenced matters (a) to (e) above.

Policy 5.4.9 To have particular regard to the following qualities or characteristics of lakes and rivers, and their margins, when considering adverse effects on amenity values:

- (a) Aesthetic values associated with the lake or river; and
- (b) Recreational opportunities provided by the lake or river, or its margins.

6.4.0A To ensure that the quantity of water granted to take is no more than that required for the purpose of use taking into account:

- (a) How local climate, soil, crop or pasture type and water availability affect the quantity of water required; and
- (b) The efficiency of the proposed water transport, storage and application system

**Is the activity consistent with the above relevant provisions of the RPW?**

Yes       No

6.4.12A To promote, approve and support water management groups to assist the Council in the management of water by the exercise of at least one of the following functions:

- (a) Coordinating the take and use of water authorised by resource consent; or
- (b) Rationing the take and use of water to comply with relevant regulatory requirements; or
- (c) Recording and reporting information to the Council on the exercise of resource consents as required by consent conditions and other regulatory requirements, including matters requiring enforcement.

6.4.12C Where appropriate, to include in water permits to take water a condition that consent holders comply with any Council approved rationing regime.

**Do you agree to a consent condition that refers to a water management group, should one be present?**

Yes       No

6.4.0C To promote and give preference, as between alternative sources, to the take and use of water from the nearest practicable source.

**Is the source of the water from the most available source to where it is to be used?**

Yes       No

6.4.11. To provide for the suspension of the taking of water at the minimum flows and aquifer restriction levels set under this Plan.

6.4.7. The need to maintain a residual flow at the point of take will be considered with respect to any take of water, in order to provide for the aquatic ecosystem and natural character of the source water body.

**Do you agree to conditions of consent for a minimum flow and/or residual flow restriction on taking water?**

Yes       No

6.4.16 In granting resource consents to take water, or in any review of the conditions of a resource consent to take water, to require the volume and rate of take to be measured in a manner satisfactory to the Council unless it is impractical or unnecessary to do so.

**Do you agree to measuring the take and a review condition on the permit that is related to the measuring records?**

Yes       No

**1.3 Kai Tahu ki Otago Natural Resource Management Plan 2005 (NRMP)** The following sections are relevant to this application:

- To require that resource consents applications seek only the amount of water actually required for the purpose specified in the application.
- To require that all water takes are metered and reported on, and information be made available upon request to Kai Tahu ki Otago.
- To oppose the granting of water take consents for 35 years.
- To encourage those that extract water for irrigation to use the most efficient method of application.
- To discourage over-watering.

▪ **Is the activity consistent with the above relevant provisions of the Kai Tahu Plan?**

▪  Yes       No

## PART J: DEPOSIT

A deposit is required upon lodgement of your application. Refer to the fees on Form 1. This deposit is not the final or maximum cost of your application. Further charges are incurred in accordance with Councils scale of fees and charges.

**I.1 Deposit Enclosed**

Yes       No      **Deposit paid electronically**  Yes     

## PART K: CHECK LIST

**J.1 In order to submit a complete application, have you remembered to?**

Fully completed this application form and Form 1?

- For replacement applications, provide evidence of how much water has historically been used under that consent (unless information held by Council). *refer A.2*
- Attached a Non-Standard installation form if required? *refer D.5*
- Attached an Exemption Application Form for the point of take? *refer D.6*
- Attached an Exemption application form for weekly records? *refer D.7*
- For water management groups, provide evidence that the group meets the requirements of Appendix 2A of the Regional Plan: Water for Otago? *refer F.3*
- A detailed site map or aerial photograph? *refer E.3*
- Photo/s of the intake *refer B.3*
- Copy/s of certificate of title *refer E.2*
- Attached any written approvals? *refer H.2*
- Paid your deposit or attached a cheque? *refer I.1*

To keep consent processing costs to a minimum it is strongly recommended that the checklist is complete and all items required are attached **before** you lodge your application to the Otago Regional Council.