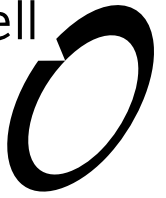


Boffa Miskell



Operational Spray Plan

Kawarau River Aquatic Weed Management
Prepared for Land Information New Zealand

6 May 2022

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1.0 Permitted Activity & Resource Consents

Treatment of lakeweed (*Lagarosiphon major*) at Kawarau River using the gel herbicide, diquat, is a permitted activity under the Otago Regional Council's *Regional Plan Water: for Otago* under section 12 'Water Take, Use and Management', Rule 12.B.1.1. Please see a link to the Plan below:

<https://www.orc.govt.nz/media/11825/regional-plan-water-for-otago-updated-to-5-march-2022-chapters-1-19.pdf>

2.0 Pre-Spray Monitoring and Proposed Control Sites

A surface-based aquatic weed delimitation survey was carried out on 05 May 2022. At the time of survey, the weed and water conditions were fit for diquat treatment. The following areas will be treated:

- Kawarau Falls Bridge to the Shotover River confluence

3.0 Herbicide Application

Boat-based aquatic weed spraying is scheduled to begin from **Monday 09 May 2022 and may continue intermittently to Thursday 30 June 2022** as weather, weed and water conditions permit. Treatment will not take place during weekends or on public holidays.

As a precautionary measure only, Land Information New Zealand advises users not to take water from the Kawarau River to consume or for irrigation purposes from the vicinity of the treatment area until **24 hours** after treatment has been completed.

Notices will be placed at www.linz.govt.nz 24 hours prior to the planned spray dates. Warning signs will be placed at authorised public boat ramps prior to and during treatment and will be removed 24 hours after treatment. Changeable weather conditions may result in delays to weed spraying.

Please scan the QR code below to access the most up-to-date information on control timings.



The Hazard classification for diquat is 6.1C, 6.3A, 6.9A, 8.1A, 9.1A and 9.3C.

Diquat factsheet prepared by NIWA.

<https://niwa.co.nz/sites/niwa.co.nz/files/Diquat%20FAQ%20Download.pdf>

Reglone Diquat Herbicide Label.

<https://syngenta.my.salesforce.com/sfc/p/#24000000Yk1o/a/1o0000005A43/yCjCCVLYKhxx9ee7wmLCZxrNhS2Xtb7IJ9QtHsZtUDQ>

4.0 Notifications

4.1 Newspaper advertisements

Otago Daily Times

Publication Dates:

- Wednesday 20 April 2022
- Monday 25 April 2022

4.2 Stakeholder emails

Emails are sent to the comprehensive stakeholder list in advance of proposed spray dates, 24 hours before spraying is to occur, on the day(s) of spraying and at the conclusion of spraying. Please email biosecurity@boffamiskell.co.nz if you would like to be added to the mailing list.

5.0 Signage

Warning signage is erected at key access points prior to application and is removed once the 24-hour stand down period for swimming, fishing and taking water has elapsed.



Figure 1. An example warning sign that will be erected key river access points

6.0 Water Takes

Identification of consented water takes is undertaken using the Regional Council’s surface water take information. There are two consented water takes proximate to the planned spraying within Kawarau River

- Consent number 2009.282, Queenstown Lakes District, Surface Water Take Permit. Expires 19/11/2044
- Consent number RM19.437.01, Queenstown Lakes District, Surface Water Take Permit. Expires 18/06/2027

The consent holders have been contacted in advance of this spraying operation. No other water takes are affected by this operation.

7.0 Proposed Spray Areas

There is 12ha of spraying proposed for Kawarau River in May 2022. This consists of 12ha of boat-based application.

Figure 2. Proposed herbicide treatment areas by method.

