

# Project: Barrhill Chertsey Irrigation Scheme

Client: Barrhill Chertsey Irrigation Ltd

Location: Methven, Canterbury

Barrhill Chertsey Irrigation limited (BCIL) is proposing to deliver approximately  $8\text{m}^3/\text{s}$  of Rakaia River water to the Rangitata Diversion Race (RDR) at Highbank Power Station. During the irrigation season it is intended that this water will backflow from Highbank Power Station to the Methven check gates. A portion of the flow will be utilised in the Barrhill Chertsey area for irrigation, but most will be conveyed to the Ashburton Lyndhurst Irrigation Scheme for a “water swap” with RDR flows. This will enable new irrigation intakes along the RDR for irrigation.

RILEY has undertaken the following tasks to date:

- ❖ Developed options for new off-take structures on the RDR with locations and flows determined by Water Dynamics.
- ❖ Developed options for diverting flow directly from the RDR downstream of the Methven check gates to the Ashburton Lyndhurst Irrigation Scheme (ALIS) race.
- ❖ Provided preliminary options for the sizing and location of potential storage reservoirs at each off-take site.
- ❖ Provided a preliminary cost estimate for each site based on general assumptions regarding construction conditions.
- ❖ Developed concepts for the intake and pump station at the Rakaia River.

This project is ongoing.

For further information on the services we can provide refer to our web site or please contact us.



10/09

Tel: 64 9 489 7872 (Akl)  
Tel: 64 3 379 4402 (Chch)  
Email: [riley@riley.co.nz](mailto:riley@riley.co.nz)  
Web: [www.riley.co.nz](http://www.riley.co.nz)

