



Notes:

- All new and relocated water races are required to be lined with a minimum of 300mm of approved lining material.
- Races should be lined with clay or Bentonite mixed with natural material/gravel. A mix of 15% Bentonite and 85% gravel mix could be used.
- Lime stabilisation may be required for mixed clay liners of 2-4% by weight.
- A maximum particle size of 20% of the liner thickness should be used.
- Liners should be well mixed onsite to achieve uniform clay/bentonite distribution.
- If used, pure Bentonite liners should be 20-50mm thick and covered with a compacted layer of top soil/gravel.
- Channel dimensions and batters should be agreed with Council Engineer for all new channels. Access to clean water races should be provided for in all new and relocated races.

Relocation of Water Race W106

Relocation of water race shall be subject to:

- Relocation of the race shall not have a detrimental effect on any other water race users or water race system operation.
- Application for relocation shall be made in writing to the Asset Delivery Manager and shall include:
 - a) Map showing existing and proposed works.
 - b) Specifications for construction of work.
 - c) Non refundable payment of the application fee as per the Annual Report.
- No works can proceed until engineering approval of the works has been obtained from the Asset Delivery Manager.
- All cost associated, including any supervision, with the relocation shall be at the applicant's expense. If any leakage occurs from the relocated race, including anytime in the future, the applicant shall undertake all necessary repairs as directed by the Asset Delivery Manager.
- Water loss test must be carried out in consultation with the Council representative prior to the water being fully diverted. If this is not undertaken the Council reserve the right to do this at the applicant's cost and all repairs may be required are at the applicant's expense.
- When a water race relocation application is an enhancement to the scheme, then a cost sharing arrangement may be entered into between the council and the applicant at the Council's discretion.

*Amended Water Race Committee 08.05.06
Confirmed by Council 11.07.07
Council 10.06.09*

New Races or Associated Structures W108

Installation of new race will be permitted:

- Where new properties are required to be served.
- To serve additional areas of individual properties.
- Conditions:
 - a) Cost of all works including the associated supervision is at the applicant's expense.
 - b) Design and construction to the approval of the Asset Delivery Manager.
- If any leakage occurs from the race, including anytime in the future, the applicant will undertake all necessary repairs as directed by the Asset Delivery Manager
- A water loss test must be carried out in consultation with the Council representative prior to the water being fully diverted. If this is not undertaken Council reserve the right to do this at the applicant's cost and all repairs that may be required are at the applicant's expense.

*Water Race Committee 22.06.98
Amended Water Race Committee 08.05.06
Confirmed by Council 11.07.07
Council 10.06.09*



Water Race Lining Requirements
New and Relocated Channels

STANDARD NO WR 8.0
DATE March 2015
SCALE NTS