

CARDINIA DAM – CONSTRUCTABILITY ADVICE

**Project Synopsis**

- Constructability advice for the excavation of the downstream face and replacement with filters across the dam embankment in accordance with ANCOLD Dam Safety Guidelines
- Estimating
- Monte-Carlo risk analysis
- Preparation of Constructability Report

Client: KBR/Melbourne Water

Location: Cardinia, VIC

Year: 2016

Value: \$9.8-11.4M

Melbourne Water engaged KBR to prepare a feasibility report to strengthen the Cardinia Dam to meet current design standards.

Novel Group was engaged to provide constructability advice to KBR and three options were developed. A constructability report was prepared by Novel Group for Melbourne Water/KBR in accordance with ANCOLD Dam safety guidelines.

The project involved:

- Discussing and reviewing options associated with the construction of the Cardinia Dam Safety Upgrade
- Developing a cost estimate using Monte-Carlo techniques for three options
- Preparing a Constructability Report for Melbourne Water/KBR
- Various site visits