

# River Diversions

**Client:** BMA Coal

**Location:** Blackwater Mine and Caval Ridge Development, Peak Downs Mine, Qld



Water Technology has been engaged by BMA Coal to develop diversion designs for 4 streams within current and future open-cut coal mine works areas. The diversions are to function as a component of the broader stream network, providing similar ecological functioning and levels of stability to that in adjacent reaches. Water Technology adopts hydraulic and geomorphic form templates based on equivalent natural streams in proximity to the diversion site to satisfy ecological, regulatory and functional requirements.

Water Technology has undertaken site assessments to identify natural stream form and developed appropriate stream design objectives based on stream morphology. Through topographic and hydraulic modelling, functional design arrangements have been investigated and tested, leading to development of the detailed design, construction drawings and specifications.

Water Technology personnel have experience in the design and construction of stream diversions in a range of settings and can provide advice in all elements of geomorphic and hydraulic design for stream diversion works and construction.

## Key Services Provided:

- Hydrology and hydraulic investigations
- Civil assessment and design
- Waterway management
- Fluvial geomorphic and process investigations

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