



## Review of large-scale river diversions in Colombia

The first review, of a proposed diversion of the Rancheria River, included assessment of the hydraulic and geomorphic performance of the proposed diversion and the implications of such performance on the long term sustainability of the proposed diversion arrangement. The review was undertaken with a field visit and desktop review of the project objectives, system assessments and option review. The work included review of the long term, landscape scale ecological outcomes associated with the proposed diversion design.

In the second review, Alluvium was contracted to undertake a preliminary assessment of proposed diversion options. The purpose of the review was to ensure that mine expansion and environmental and social sustainability in the area would not be affected by the diversion construction. The review assessed the diversion options in terms of their effects on erosion, flooding, environmental flows, avulsion risk and river health. Options assessed include diversions within the same catchment and diversion of the stream into an adjoining catchment