Gravel-related research in the ICM programme

Les Basher Landcare Research, Nelson

• 2003-05

Complete analysis of Motueka River cross section data to evaluate changes in riverbed level and assess the factors controlling degradation (flood history, gravel extraction, channel maintenance) to provide a scientific rationale for setting gravel extraction limits.

• 2006-09

Analyse gravel transport in the Motueka River and develop a generic approach for regional councils' management of gravel extraction



Manaaki Whenua

Landcare Research

Gravel-related research in the ICM programme

- compiled all river cross-section and gravel extraction data for the Motueka River
- provided a comprehensive analysis of all data using a consistent application of "end area" methodology
- Masters thesis comparing different methods of analysing cross section data

MAKING A DIFFERENCE FOR A TRULY CLEAN, GREEN

 Detailed work using GPS surveys at the "3 beaches" gravel extraction site to monitor change following "over-extraction", and to assess how well crosssections represent river behaviour Manaaki Whenua

NEW



Landcare Research

Gravel-related research in the ICM programme

- Analysis of the relationship between
 - bed degradation and river channel stability/river control costs
 - bed degradation and groundwater levels
- Considered alternatives to cross section monitoring and analysis
- Started to analyse the cross-section data from the Waimea, Wairoa, Wai-iti and Takaka Rivers



Manaaki Whenua Landcare Research