



HYDROLOGY & RIVER ENGINEERING

OUR SERVICES

- Hydrological catchment modelling and assessment
- Erosion and sediment control plans, gravel bed river management, reservoir sedimentation, bridge scour and design of protection works
- Analysis and design of hydraulic structures
- Assessments of Environmental Effects
- Expert assistance for consent hearings
- Design of irrigation systems including canals, check structures, pumps and storage reservoirs
- Preparation of drawings, specifications and contract documents and construction supervision
- Catchment management plans including hydraulic and hydrological modelling, flood hazard mapping and assessment of climate change
- Project management of multi-disciplinary, multi-agency teams to deliver sustainable solutions for stakeholders
- Open channel hydraulics assessment
- Resource consent application preparation
- Hydrogeological and hydrological assessment
- Design of river engineering works

ABOUT US

PDP have the expertise to deliver cost effective and sustainable river engineering solutions that provide protection to people and property while recognising ecological, social and cultural values.

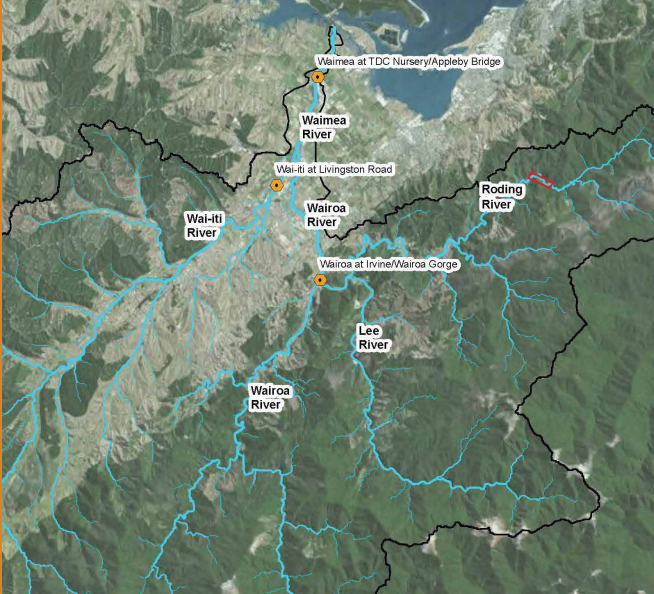
We offer specialist advice on erosion and sediment management through the complete project life-cycle, which recognises our changing physical environment.



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PROJECTS



RODING RIVER COMMUNITY WATER SUPPLY

- Hydrological analyses of the Roding River
- Water supply reliability assessment
- Groundwater impact assessment
- Resource consenting
- Assessment of effects on spring flows
- Low flow analysis
- Assessment of receiving environments and downstream users



WAINUI TE WHARA FLOOD ASSESSMENT

- Rainfall analyses for a range of recorded extreme events
- Rainfall-runoff modelling to determine catchment peak flows
- Probable Maximum Precipitation (PMP) and Probable Maximum Flood (PMF)
- Catchment hydrological assessment
- Flooding assessment and mitigation
- Sizing of flood detention dam (hydraulic routing)

ENGINEERING & ENVIRONMENTAL

CONSULTANTS

www.pdp.co.nz