



## 'Swimmability' workshop

**Date and time:** Sunday 4 December 2016, 1:00 to 5:00pm

**Venue:** Takitimu Room – Ascot Park Hotel, Invercargill

LAWF, NOF, FST and NGS... so many acronyms but what do they really mean for recreational water quality in New Zealand? This workshop provides a dedicated forum to present and discuss the latest microbiological science of relevance to 'swimmability' in terms of:

- Source identification
- Health risk quantification
- Predictive tools
- Current/pending and proposed research initiatives

**Conveners:** Elaine Moriarty (ESR) and Juliet Milne (NIWA)

### Programme:

12:45 pm: Tea/coffee

1:00 pm: Introductions and workshop scope/aims

1:10-3:15 pm: Science presentations

3:15-3:45 pm: Afternoon tea

3:45-5:00 pm: Panel-led discussion – monitoring, reporting and limit-setting for the value of 'swimmability' under the NPS for Freshwater Management

5:00pm on: Mix & mingle (drinks & nibbles provided) ahead of conference registration

### Presentations

- *Faecal Source Tracking studies in Southland as part of the Human Health Programme* – Elaine Moriarty (ESR) and Nick Ward (Environment Southland)
- *New developments in water microbiology* – Brent Gilpin and Paula Scholes, ESR
- *Advances in Quantitative Microbial Risk Assessment (QMRA)* – Peter Cressey, ESR
- *Catchment modelling of swimmability: Progress and prospects* – Sandy Elliot, NIWA
- *Regional microbial forecasting/prediction initiatives* – Juliet Milne (NIWA), Maree Patterson (Horizons RC), Beverley Horn (ESR)
  - Te Awarua-o-Porirua Harbour, Wellington
  - River flow predictions of *E. coli* in Horizons-Manawatu Region
  - Oreti River, Southland

Afternoon tea break

- *What the latest science means for managing recreational water quality* – Juliet Milne, NIWA
- *MBIE swimmability project* – Richard Muirhead, AgResearch

### Discussion panel members

- Dr Elaine Moriarty (Senior Scientist, ESR)
- Dr Sandy Elliott (Principal Water Quality Scientist, NIWA)
- Dr Richard Muirhead (Science Leader, AgResearch)
- Dr Tim Davie (SWIM convener and Surface Water Science Manager, Environmental Canterbury)
- Professor Gillian Lewis (Biological Sciences, University of Auckland)
- Dr Roger Young (Coastal and Freshwater Group Manager, Cawthron Institute)
- Dr Jane Kitson (Senior Environmental Advisor, Te Rūnanga o Ngāi Tahu)
- Ministry for the Environment rep – TBC