

# TAKAKA FRESHWATER AND LAND ADVISORY GROUP

## AGENDA

9.30AM – 3.00PM / FRIDAY 22 MAY 2015 / TAKAKA FIRE STATION

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### Purpose of meeting:

- Increase understanding of land use effects on freshwater, including local nutrient trends and implications for freshwater values.
- Increase understanding of how the dairy industry approaches managing any impacts on freshwater
- Discuss the impacts of different scenarios on freshwater flows and quality

**9.30 AM Welcome & Karakia**

*Outline of the day.*

**9.40 Check-in**

*Anyone can share once, on anything 'going on' for them*

**Session 1: Land use effects on freshwater – nutrient management**

*Please note: An opportunity to put questions to the presenters is available at the end of this session*

**9.50 Nutrient trends and limits for Te Waikoropupu Springs**

John Stark report - The implications of his findings, and recommendations, for Te Waikoropupu Springs and the wider catchment

*Brief update- comments/observations from staff or FLAG members (10 min)*

**10.00 Te Waikoropupu Springs – impacts of land-use on water quality**

*Presentation by Dr Don Mead (30 mins)*

**10.30 Kapu Ti/ Break**

*Short break- please resume on time.*

**10.40 Management of dairy farm impacts on freshwater - Dairy NZ perspective**

Relationship between farm practices/systems & nutrient leaching rates

Nutrient limit setting experiences - what could be applied in Takaka

Successful mitigation approaches to effects of nitrates on freshwater

The nutrient trends and implications in Takaka

*Presentation from Dr Rick Pridmore and Mike Scarsbrook, Dairy NZ (1 hr)*

**11.40 5 min stretch**

**11.45 How land-use change effects nitrate levels in Takaka catchments**

Preliminary nitrate modelling results for Te Waikoropupu Springs, Motupipi etc (more detail in the afternoon session)

*Presentation by Julian Weir & Andrew Fenemor (15 mins)*

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- 12.00**      **Managing land use impacts on freshwater quality** (focusing on N & P)  
*Panel discussion and Q&A session – FLAG*  
*Panel: Don Mead, Rick Pridmore, Mike Scarsbrook, Julian Weir, Andrew Fenemor*
- 12.30 pm**      **LUNCH**
- Session 2:**      **Flows and nutrient modelling – informing limit setting**
- 1.15**      **Flow & Nutrient modelling**  
Preliminary results from groundwater flow and nutrient modelling at ‘pinch points’  
in the Takaka catchment freshwater management zones  
*Presentation– Julian Weir, Aqualinc & Andrew Fenemor, Landcare (45 mins)*
- 2.00**      **Modelling review**  
Do you have confidence in the modelling?  
Any further refinement needed?  
Any further scenarios you want considered?
- 2.15**      **Managing flows & nitrates in Takaka Catchments**  
Reflecting on what you have learned today, what are your thoughts on the  
management of flows or nutrient levels? Any implications for limit setting?  
*(Group discussion 15 mins)*
- 2.30**      **Updates**
- Ground water levels in town bores (resolved via email?) *(Joseph, Lisa 5 mins)*
  - Waterwheel matrix of attributes (responses from email) *(Andrew 5 mins)*
  - Irrigable area mapping for modelling *(Andrew 5 mins)*
- 2.45**      **Summary**
- Reflection on today
  - Action points from today (to be included in meeting notes – please check these)
  - Next meeting dates are: 26 June (request for change to 19 June?), 24 July,
  - Summary of where we are now – tasks completed since last meeting
  - Next steps – upcoming meeting agenda.
- 3.00**      **FINISH**