



**WE CAN**

Water Efficiency & Conservation Network

WATER NEW ZEALAND

## **Further information on presentations**

### **Feet on the ground. First steps.**

### **Water Efficiency & Conservation Network Workshop**

#### **PRESENTATION 1.**

##### **How is water used?**

Lee Bint

Sustainable building scientist

BRANZ

Over the last two years, Lee has been researching the feasibility of rainwater and greywater systems in existing commercial buildings around New Zealand. This includes understanding the social perceptions and regulatory barriers, the actual systems in operations (savings, water quality, cost-benefit, O&M) and the impacts on the three water networks.

Lee is also exploring residential water use around New Zealand. This work will provide an understanding of how, where and when water is used and enable accurate benchmarking, forecasting and infrastructure sizing for both the building and water industries.

An output of this workshop will be twofold:

- For participants to have a higher understanding of how water is used in buildings, the opportunities for water efficiency and conservation as well as the feasibility of rainwater and greywater systems.
- For Lee to understand your perceptions on the most important aspects to consider and the biggest questions you have regarding water use awareness and understanding.

#### **PRESENTATION 2.**

##### **Tapping into students' creative genius to share Smart Water messages.**

Sally Fraser

Smart Water co-ordinator

Hamilton City, Waikato and Waipa District Councils

During the first year in the role Sally developed and delivered a school project that was based around art and design. During which students did a water conservation themed poster and some winning designs were made into large fence signs and are displayed around the school property. This project delivered new relationships with teachers and principals, promotion of the Smart Water brand, time within schools promoting the message, schools supporting the water conservation message with students and families and some great art work!

#### **PRESENTATION 3.**

##### **Can rainwater tanks be considered a demand management tool for Auckland?**

Roseline Klein

Sustainability Manager

Watercare Services Limited





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Roseline is in charge of water demand management and conservation in Auckland. Auckland has a target of reducing per capita water use by 15% by 2025. The efficiency gains to be found by 2025 are equivalent to the water use of over 60,000 households. This is an ambitious target and requires a robust demand management programme. Auckland has approached it through system changes, customer programmes and efficient network management. System changes such as universal metering and volumetric charging for water and wastewater are powerful financial incentives and awareness raising mechanisms for water efficiency and leak management. For Aucklanders wanting to reduce water wastage, the Be waterwise programme provides water efficiency assistance free of charge to households and businesses.

In addition to these programmes, Watercare is regularly challenged on source substitution and asked about rainwater tanks. Watercare's water efficiency collaterals provide information on rainwater tanks. Some community members wonder whether we could go a step further and consider rainwater tanks a key demand management tool or the next water source for Auckland. The presentation will go through the results of a recent study that analysed several scenarios for large scale rainwater tank uptake in Auckland and what difference they would make in the planning for future water sources in Auckland.

#### **PRESENTATION 5.**

##### **Improving demand management through end-use modelling**

Christine McCormack, Water Systems Specialist  
MWH New Zealand Ltd

Christine McCormack from MWH will outline an end-use approach for modelling water demands and forecasting the potential impact of water demand management initiatives. Christine has been involved in the analysis of historic water demands and the preparation of water demand forecasts for a number of Councils throughout New Zealand over the past 8 years.

A wide range of drivers have the potential to impact water demands, including non-residential use, climate, property size, household income, etc. It is very useful to understand the relative significance of these drivers for each unique water supply system. Christine will give an overview of an end-use modelling tool that can improve the accuracy of water demand forecasts and the understanding of the potential impact of water demand management initiatives. End-uses of water include toilets, washing machines etc.

Expected outcomes of this workshop:

- For participants to improve their understanding of water demand drivers.
- For participants to have an overview of an end-use modelling approach.

#### **PRESENTATION 6.**

##### **It's getting hot 'n here!**

Renee Coutts  
Demand Management Officer  
Waipa District Council

It's winter, and in the deep dark depths of the Te Awamutu office, Waipa District Council are working on a new role that will combat the districts water demand issues, spread water





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conservation messages, and educate the masses. With Summer months quickly approaching, and water use increasing, Waipa decided to deploy their new weapon – the Demand Management Officer, Renee. New in the role, she turned to the Communications team at Waipa to help brainstorm new effective ways to engage the community about a topic that can often leave a bad taste in the mouth, literally....the districts water supply. This presentation will share the quirky communication style Waipa takes towards water demand management over summer, in order to start the conversations, raise awareness, and bring transparency to all!

