

Local level water management in a changing climate

21 January 2015



Welcome & Thanks!

Partnership Event:

- Cooperative Research Centre for WSC
- Clearwater
- City of Boroondara

Getting to know your peers.....

Why we're all here today

Workshop topic

Driven by development of local level water cycle planning – WSUD, IWCM, WoWC...

Last 15 yrs – SW Quantity (flooding) and Quality (waterway health) or *SWQ²*

Last 5 yrs – SWH for irrigation (post 13 yr drought)

Last 3 yrs – many of us are talking *whole of water cycle planning & measures of liveability*

Last year – 2014 declared the hottest year on record

So how & what do we need to adapt & respond to changes?

What are the common elements we need to apply to future projects?

Our journey to becoming a water sensitive city

Outline of the day

Approx. time	Activity
9.00am	Introduction
	3 Presentations Questions? <i>Sharing, listening, learning – the challenges</i>
	Activity Session 1 <i>Reflection – what about impacts to my project(s)?</i>
10.45am	Morning Tea
11.10am	3 Presentations Questions? <i>Sharing, listening, learning – the experiences/solutions</i>
	Activity Session 2: <i>Reflection – how can I resolve for my project(s)?</i>
	Wrap-up and evaluation
12.45pm	Lunch

Local rainfall under climate change - Why uncertainty is your friend

Christian Jakob

Monash University, CRC for Water Sensitive Cities

ARR & Climate Change

James Ball
University of Technology Sydney

Climate change and urban water: Managing the risks

Eleanor McKeough
Melbourne Water

Activity

Aims:

- Reflect on what you'll hear today
- How is it relevant to me?

2 parts:

- Choose a project and reflect on impacts due to climate change
- Where to from now?: solutions / mitigation measures, next steps.

Activity session 1

Tasks:

- Pick a project
- Impacts of climate change

2 parts:

- 5min quiet time for reflection
- 15min sharing around the table

Project title	
What is the challenge? <i>Impacts due to a changing climate</i>	Where to from now? <i>Potential solutions or actions that you/your organisation can take</i>

Activity - Example

Project title: Maintaining quality playing fields across Boroondara

What is the challenge?

Impacts due to a changing climate

Less reliable water supply + increased temperatures
= less water available to maintain playing fields
+ more may require irrigation than do now

Lack of regular water ↑ compaction = increased injury risk to users
+ reduced soil permeability to take what water is available

Population pressures on existing open space

Where to from now?

Potential solutions or actions that you/your organisation can take

Greening the West in a changing climate

Clare Lombardi
City West Water

WSUD in a changing climate

Kerrie Burge
E2DesignLab

Coomoora Reserves Environmental Water Requirements

Bertrand Salmi
City of Greater Dandenong

Activity session 2

Tasks:

- Where to from now? solutions, mitigation measures, next steps

Project title	
What is the challenge? <i>Impacts due to a changing climate</i>	Where to from now? <i>Potential solutions or actions that you/your organisation can take</i>

3 parts:

- 5min quiet time for reflection
- 10min sharing around the table
- A couple of volunteers can share their thoughts with everyone

Activity - Example

Project title: **Maintaining quality playing fields across Boroondara**

What is the challenge?

Impacts due to a changing climate

Less reliable water supply + increased temperatures
= less water available to maintain playing fields
+ more may require irrigation than do now

Lack of regular water ↑ compaction = increased injury risk to users
+ reduced soil permeability to take what water is available

Population pressures on existing open space

Where to from now?

Potential solutions or actions that you/your organisation can take

- Incorporate CC considerations / scenarios into modelling future rainfall scenarios
- Plan for a number of alternative water supplies
- Match supply and demand
- Better soil management e.g. through aeration, reducing soil compaction and promoting root growth
- Change in use could be considered for some areas

Next steps?

Presentations from today + other resources will be available on our website with a notification to all attendees

Upcoming events

Evaluation forms – please complete

Thank you for your attendance and participation

Enjoy lunch with your colleagues!