



LOWER HUNTER & CENTRAL COAST  
REGIONAL ENVIRONMENTAL  
MANAGEMENT STRATEGY



## Urban Water Cycle Management Capacity Building Program

*Training Module 1*

### Challenges and Opportunities for Water Sensitive Development in the Hunter

Noah's on the Beach  
The Esplanade, Newcastle  
March 27th and 28th, 2001

What if you could develop or retrofit a site and:

- mimic nature,
- conserve water,
- protect streams and lakes,
- reduce flooding, and
- reduce costs?

Would you be interested?

These are the goals and results of understanding the urban water cycle and developing or retrofitting urban areas according to water sensitive urban design initiatives.

The Lower Hunter and Central Coast Regional Environmental Management Strategy (LHCCREMS), a coalition of seven councils, is working with stormwater managers, engineers, planners, builders, developers and their consultants through a 'capacity building' program to develop a better understanding of urban water cycle management. For sustainable projects to be built objections must be satisfied and complex design, approval and construction processes have to be navigated through. The LHCCREMS capacity building program will offer a range of skills to help make this happen.

We invite you to participate in this two-day program on *Challenges and Opportunities for Water Sensitive Development in the Hunter*. The second in a series of training programs and interactive activities on water cycle management planned in the Hunter over the next six months, this two-day workshop will provide you with detailed tools for single lot developments and challenge you to take part in "integrated thinking" workshops, where planning, engineering and environmental issues and solutions are addressed simultaneously.

The program includes presentations by a number of nationally and internationally renowned urban stormwater managers, developers, elected officials and researchers.

# Program Day 1 – Tuesday 27 March

## Water Sensitive Urban Development on Single Lots

Program Time	Speaker	Topic
8.15am – 9.00am	Registration	Industry Expo
9.00am – 9.15am	LHCCREMS	Welcome and outline of the day
9.15am – 10.15am	Kim Stephens Vice President CH2M Hill, Canada	Applying the "Soft Options" for Ecosystem- Based Stormwater Management – Canadian Case Studies
10.15am – 11.15am	John Argue Urban Water Resources Centre, University of SA	Design procedures for Water Sensitive Urban Development: Some Basics and Applications
11.15am – 11.30am	Morning Tea	Industry Expo
11.40am – 12.20pm	Peter Coombes University of Newcastle	Getting Tanked – How to Save Water and Dollars with a Rainwater Tank
12.25pm – 1.00pm	Michael Mobbs (02) 9310 2930	Designing for Sustainability – A Case Study in Water Re-use and Recycling
1.00pm – 1.45pm	Lunch	Industry Expo
1.45pm – 2.45pm	Workshop Session	Integrated Development Workshops – cross disciplinary groups will design a single lot residential development using urban water cycle management best practice techniques.
2.45pm – 4.45pm	Field Trip & On-Site Training	Infiltration On-Site Retention Porous Paving Landscaping Rainwater Tanks
4.45pm – 5.00pm	LHCCREMS	Closing Comments
5.00pm – 6.00pm	Drinks	Industry Expo



# Program Day 2 – Wednesday 28 March

## Challenges and Opportunities for Subdivision Design

Program Time	Speaker	Topic
8.15am – 9.00am	Registration	Industry Expo
9.00am – 9.15am	LHCCREMS	Welcome and outline of the day
9.15am – 9.35am		In a Perfect World Presenting an Ideal Subdivision
9.40am – 11.00am	Series of speakers including a developer, council manager, politician and consultant.  <i>Kim Stephens</i> →	<i>Reality Check 1 – The Developer</i> "Issues in implementing the Development"  <i>Reality Check 2 – The Council Manager</i> "Issues in Approving the Development"  <i>Reality Check 3 – The Mayor</i> "Reviewing Organisational Structure and Process to Make it Happen."  <i>Reality Check 4 – The Achiever</i> "How We Made it Happen"
11.00am – 11.30am	Morning Tea	Industry Expo
11.30am – 3.30 <i>Includes a Working Lunch</i>	Problem Based Learning Exercise: Integrating Water Cycle Management into Residential Subdivisions	Effective integration of engineering, planning and environmental solutions is often discussed but rarely achieved. This workshop provides cross-disciplinary teams the opportunity to plan, design and "develop" a sustainable residential subdivision.  Each group will be assisted by a panel of experts to develop concept designs and document the process.
3.30pm – 4.30pm	Kim Stephens Vice President, Ch2M Hill Canada	Overcoming Barriers to Implementation: Risk, Liability, Cost and Political Will
4.30pm – 5.30pm	Drinks	Industry Expo

## Who Should Attend?

- Stormwater Managers
- Consultant Engineers
- Builders
- Landscape Designers
- Environmental Officers
- Council Managers
- Engineers
- Planners
- Developers
- Catchment Managers
- Elected Representatives
- Consultants

## Cost

The LHCCREMS capacity building program is a grant funded regional initiative, which is provided free to Local Government representatives.

Non-Local Government delegates are invited to attend at a cost of \$60 (includes GST) for the two-day program, which includes conference notes, morning tea, lunch and afternoon tea and site tours. Cheques should be made payable to the Lower Hunter and Central Coast Regional Environmental Management Strategy (LHCCREMS).

## Registration

Please register your attendance by **Tuesday 20 March 2001**.

Numbers are limited, so be quick to reserve your place.

The following options are available to register:

- Phone: (02) 4962 0918

or • Email: [smduncan@ozemail.com.au](mailto:smduncan@ozemail.com.au)

or • fill in the details below and fax back to us on (02) 4962 0996

## Workshop Registration Form

*Please complete the following details*

Name:

Organisation:

Position:

Phone Number:

Email:

Cut out and fax this form back to us on (02) 4962 0996