



WISEwaterways

A Workshop in Stream Management Principles and Practices

27 - 31 October 2008

Venue: La Trobe at Beechworth

Presented by

North East Catchment Management Authority
Department of Sustainability and Environment
Department of Primary Industries
Murray-Darling Basin Commission
Sinclair Knight Merz
Wodonga Institute of TAFE
La Trobe University
River Basin Management Society
Alluvium Consulting Pty Ltd

Testimonial

Water Management – A Development Perspective, Some Fundamental Concepts, and Environmental Flows

The management of water supply and allocation in the Murray-Darling Basin has changed dramatically over the past 30 years. There are a number of reforms and fundamental concepts which have been implemented and which are being contemplated to better manage in changing and uncertain circumstances. The management of markets in water entitlements and in annual water allocations are crucial to how the system operates; it is interesting to consider how far such markets can extend. Environmental managers must also work within this framework to maximise river health outcomes.

Biography

Geoff Earl has worked in the Victorian water industry for 33 years. He worked in the State Rivers and Water Supply Commission (and subsequent bodies) working predominantly on investigations into salinity problems on land and in waterways, including developing mitigation measures. In 1993 he was appointed as a senior manager in the new Goulburn-Murray Water, with responsibilities for water resource management, and environmental and natural resource management programs.

This period included developing bulk water entitlements and water trading frameworks, and managing the regulated water supply systems in severe drought. For the past 3 years, Geoff has been working as the Environmental Water Flow Coordinator, operating across the North East, Goulburn Broken and North Central Catchment Management Authorities. This role involves developing frameworks for environmental water management, and planning and supporting environmental water management.



Geoff Earl
Environmental Water
Flow Coordinator

Vision

To provide a forum for a comprehensive overview of Stream Rehabilitation and Management Principles and Practices.

Aims

An integrated approach to Stream Management: Hydrology, Water Quality, Ecology, Riparian Vegetation, Geomorphology and Rehabilitation Techniques.

To provide extensive “hands on” experience through group assignments.

Background

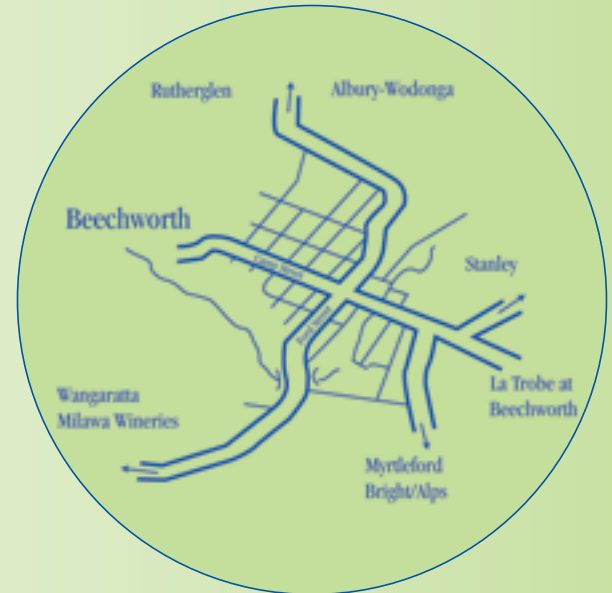
In the ten years that the Workshop has been running, some 570 participants have completed the program. The Workshop constitutes a minor “Stream Management Course” and on completion participants will receive a credit towards the TAFE “Diploma of Natural Resource Management”.

Who Should Attend?

The course is aimed at people working in, or who are interested in stream management, particularly those involved in practical natural resource works programs.

The Region

Beechworth is situated in North East Victoria. It is approximately 3½ hours drive from Melbourne. The nearest airport is Albury Airport (30 minutes drive). Transfers from Albury Airport can be arranged. Beechworth is an ideal location for the Wise Water Ways Workshop. Diverse vegetation, macro invertebrates and geomorphic issues in the area provide a number of opportunities for managers to evaluate stream systems.



Accommodation

Accommodation has been reserved for participants at La Trobe at Beechworth.

Special rates for shared bathroom room (1 bathroom between 2 rooms) of \$105.00 per room per night and cottage rooms (cottages contain 4-6 bedrooms) of \$90.00 per room per night. The rates include a fully cooked breakfast.

Please complete your accommodation requirements on the registration form.

Program of Activities

| Sessions | | Presenter |
|----------------------|--|--|
| Monday 27/10 | Day One Introduction to Stream Management | |
| 12.45 – 2.30pm | Stream Rehabilitation Concepts <ul style="list-style-type: none"> • Steps for stream rehabilitation • Assessment • Investigations • Concepts • Design • Community consultation • Prioritisation | Dr Ian Rutherford Director Integrated River Health Policy & Investment Office of Water <i>DSE</i> |
| 2.30 – 3.00pm | Afternoon Tea | |
| 3.00 – 5.45pm | Riparian Vegetation Field Demonstration | Paul Wilson Office of Water <i>DSE</i> |
| 7.00pm | Celebratory Dinner - 10 year anniversary / Keynote Address | Geoff Earl |
| Tuesday 28/10 | Day Two Assessment Techniques | |
| 8.30 – 9.00am | Victorian River Health Strategy <ul style="list-style-type: none"> • Policy - context, priorities | Dr Sarina Loo Office of Water <i>DSE</i> |
| 9.00 – 12.30pm | Stream Assessment Techniques <ul style="list-style-type: none"> • Introduction and overview • Assessment of hydrology, vegetation and physical condition • Role of macro-invertebrates • Water quality and blue-green algae | Paul Wilson Dr Roger Croome Dr Phil Suter <i>La Trobe University</i> <i>Albury Wodonga Campus</i> |

Program of Activities

| | | |
|------------------------|---|---|
| 1.30 – 5.30pm | Demonstration of Field Data Collection <ul style="list-style-type: none"> • Field surveys (level and staff) • GPS data collectors • Macro-invertebrate sampling • Vegetation assessment • Physical condition assessment | Paul Wilson Chris Dwyer <i>SKM</i> Phil Suter Sam Marwood <i>Office of Water, DSE</i> |
| 7.00pm | Hypothetical - “Whose Water Is It?” | |
| Wednesday 29/10 | Day Three | Processes |
| 8.30 – 9.00am | Catchment Processes / Catchment Management - Case Study Ovens Basin | Rick Felton <i>DPI – Wangaratta</i> |
| 9.00 – 9.45am | Stream Ecology <ul style="list-style-type: none"> • Why is ecology important? • Streams as ecological systems • Indicators of stream health | Professor Gerry Quinn <i>Chair in Marine Biology Deakin University Warrnambool Campus</i> |
| 9.45 – 10.30am | Fish Habitat <ul style="list-style-type: none"> • Fish ecology - flows, habitat, water quality, barriers, large woody debris • Fish migration triggers and patterns | Dr David Crook <i>Arthur Rylah Institute for Environmental Research DSE</i> |
| 10.30 – 11.00am | Morning Tea | |
| 11.00 – 12.00pm | Physical Processes <ul style="list-style-type: none"> • Open channel hydraulics • Stream geomorphology | Dr Dean Judd <i>Water Technology Pty Ltd</i> |

Program of Activities

| | | |
|-----------------------|--|--|
| 12.00 – 12.40pm | Environmental Flows <ul style="list-style-type: none"> • Water resource allocation • Environmental flows importance and assessment methodology • Streamflow management | Geoff Vietz <i>Alluvium Consulting Pty Ltd</i> |
| 12.40 – 1.00pm | Lunch | |
| 1.00 – 5.30pm | Project data collection and write-up / Field Work | |
| 7.00pm | Free Evening | |
| Thursday 30/10 | Day Four | Rehabilitation Techniques |
| 8.30 – 9.10am | Riparian Vegetation <ul style="list-style-type: none"> • The role of filter strips, organic carbon, shading, biodiversity and revegetation • Components and importance of riparian vegetation • Vegetation management and revegetation techniques • Ecological vegetation communities | Jane Roots <i>School of Environmental Sciences Charles Sturt University</i> |
| 9.10 – 9.55am | Willows/Exotic Trees <ul style="list-style-type: none"> • Identification and reproduction • Ecology, dispersal and management issues • Control | Dr Fiona Ede <i>Keith Turnbull Research Institute at Frankston</i> Terry McCormack <i>North East Catchment Management Authority</i> |
| 9.55 – 10.25am | Morning tea | |
| 10.25 – 12.00pm | Stream Channel Management <ul style="list-style-type: none"> • Replicating natural systems • Working with stream processes • Grade control structures • Sediment stabilisation | Ross Hardie <i>Alluvium Consulting Pty Ltd</i> |
| 12.00 – 12.45pm | Lunch | |

Program of Activities

| | | |
|---------------------|---|--|
| 12.45 – 1.30pm | Field Projects and Construction Works Works. What works? | Terry McCormack |
| 1.30 – 5.30pm | Preparation of project reports | |
| 6.30 – 7.30pm | Dinner | |
| 8.00 – 10.00pm | Presentations of Group Projects | |
| Friday 31/10 | Day Five | Field Visit |
| 8.45 – 12.30pm | Field Visit to Ovens Catchment <ul style="list-style-type: none"> • View structural works • Revegetation and willow management | Chris Dwyer Terry McCormack |
| 12.30pm | Lunch | |

Details are correct at time of program production, although may be subject to change.

Registration Form

A. PARTICIPANT

Title: Dr Mr Mrs Ms

Name:

Position:

Organisation:

Address:

..... Postcode

Phone(B): Mobile:

Fax:

Email:

Special Dietary Requirements:

Privacy - I give permission for my details to be disclosed (no tick will be taken as yes) Yes No

To register for the workshop or attend certain days please complete the registration on the following page and forward it to:

Wise Water Ways
PO Box 645, Wangaratta Vic 3676
Fax: 03 5725 7346

Contact Virginia Eckels Tel: 0408 109 707
Email: nemeet@bigpond.com



B. REGISTRATION FEES (by 15 October 2008)

Full Workshop Fee

includes morning teas, lunches, dinners **\$720**
(GST Inclusive)

For Members of the River

Basin Management Society (RBMS) **\$675**
(GST Inclusive)

Would you like information on RBMS Membership? (\$45) Yes

C. DAY FEE

includes morning tea, lunch **\$265**
(GST Inclusive)

Day attending:

Mon. Tues. Wed. Thurs. Fri.

Dinner:

Mon. Tues. Thurs. **\$50**
(GST Inclusive)

D. ACCOMMODATION

Hotel Room

Per night x \$105.00 x **Total**
(GST Inclusive) No. of nights

Cottage Room

Per night x \$90.00 x **Total**
(GST Inclusive) No. of nights

Check in date..... Check out date.....

TOTAL
GST Inclusive

Cheque/Money Order made payable to
North East Catchment Management Authority

If a tax invoice is required please send a purchase order for Wise Water Ways to:

NECMA, PO Box 616, Wodonga Vic 3689

Cancellation Policy: Full refund less 20% if advised 5 days prior to the Workshop

We would like to thank the following partners:



Department of Sustainability and Environment



Department of Primary Industries



A Stream Rehabilitation Workshop

For further information contact:

North East Conference and Event Planners
Phone: 0408 109 707 Email: nemeet@bigpond.com or
Lachlan Campbell - Email: lachlan.campbell@alpvalleys.com.au

