



# *Mekong River Commission*

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## **Ecological Risk Assessment**

### **Training Workshop 1 Programme**

**Chau Doc (Vietnam) – 19-23 June 2006**

**Chiang Rai (Thailand) – 26-30 June 2006**

**Implemented by**

**Water Science Pty Ltd, Australia**  
in collaboration with **Water Studies Centre Monash University &**  
**International Water Centre**



**Mentor**

**Professor Barry Hart**

**Water Science Pty Ltd, Echuca, Australia**

### **1. Objectives**

Each team member:

- To gain an awareness of the basic principles of ecological risk assessment as a natural resources assessment tool,
- To define the problem for their particular case study,
- To define a program of work that will be undertaken between Workshops 1 and

## 2. Programme

Session	Time	Activities
<b>Day 1</b>		
<b>Session 1</b>	08.30-10.15	General introductions <b>Introduction to the MRC mandate</b> , the 1995 Agreement, the MRC Core programmes, and objectives of the Course (Arounna) <b>Presentation 1a - Outline of the course</b> <b>Presentation 1b - Ecological approach to water quality management</b>
	10.15-10.30	Morning tea
<b>Session 2</b>	10.30-12.15	<b>Presentation 2a -Ecological risk assessment overview</b> <ul style="list-style-type: none"> <li>• Risk management framework (why needed, what is involved, what are the outputs)</li> </ul> <b>Presentation 2b – Risk perception</b> <ul style="list-style-type: none"> <li>• Concept of risk</li> <li>• Human perceptions regarding risk</li> </ul>
	12.15-13.15	LUNCH
<b>Session 3</b>	13.15-15.00	<b>Presentation 3 - Problem formulation</b> <ul style="list-style-type: none"> <li>• Issue identification</li> <li>• Big picture conceptual models (what are they, how useful, how to build)</li> <li>• Threats/hazards, endpoints</li> </ul>
	15.00-15.15	Afternoon tea
<b>Session 4</b>	15.15-17.00	<b>Presentation 4a – Qualitative risk analysis</b> <ul style="list-style-type: none"> <li>• Introduction to hazard analysis •Discuss the case study Wrap up and organise for field trip</li> </ul>
<b>Day 2</b>		
	08.30-17.30	<b>Field Trip</b> Team to visit the area where the Risk Assessment will be based.

<b>Day 3</b>		
<b>Session 1</b>	08.30-10.15	Revise Day 1 learnings & Field Trip <b>Case study 1</b> <ul style="list-style-type: none"> <li>• Identify possible specific hazards</li> <li>• Identify possible endpoints</li> </ul>
	10.15-10.30	Morning tea
<b>Session 2</b>	10.30-12.15	<b>Case study 2 - hazard analysis</b> <ul style="list-style-type: none"> <li>• Revise what is involved in hazard analysis</li> <li>• Undertake hazard analysis for case study</li> </ul>
	12.15-13.15	LUNCH
<b>Session 3</b>	13.15-15.00	<b>Case study 3</b> <ul style="list-style-type: none"> <li>• Define key risks for case study</li> <li>• Set up 3-4 teams each to investigate one of the key risks</li> <li>• Teams to prepare issue-specific conceptual model</li> </ul>
	15.00-15.15	Afternoon tea
<b>Session 4</b>	15.15-17.00	<b>Case study 3 (continued)</b> <ul style="list-style-type: none"> <li>• Further discussion</li> </ul>

<b>Day 4</b>		
<b>Session 1</b>	08.30-10.15	<b>Presentation 4b – Quantitative risk analysis</b> <ul style="list-style-type: none"> <li>• Effects characterisation</li> <li>• Likelihood characterisation</li> <li>• Putting these together</li> </ul>
	10.15-10.30	Morning tea
<b>Session 2</b>	10.30-12.15	<b>Risk analysis (continued)</b> <ul style="list-style-type: none"> <li>• Scenario testing</li> <li>• Further investigations</li> </ul>
	12.15-13.15	LUNCH
<b>Session 3</b>	13.15-15.00	<b>Case study 4</b> <ul style="list-style-type: none"> <li>• Define information needs and possible sources</li> <li>• Decide what each team will collect</li> </ul>
	15.00-15.15	Afternoon tea
<b>Session 4</b>	15.15-17.00	<b>Case study 4 (continue)</b>

<b>Day 5</b>		
<b>Session 1</b>	08.30-10.15	Revise Day 4 learning <b><i>Planning next stage</i></b> define what each team (and each individual) needs to do to obtain information for the next stage of their case study risk assessment
	10.15-10.30	Morning tea
<b>Session 2</b>	10.30-12.15	<b><i>Planning next stage (continue)</i></b>
	12.15-13.15	LUNCH
<b>Session 3</b>	13.15-15.00	<b><i>Planning next stage</i></b> • Team presentations
	15.00-15.15	Afternoon tea
<b>Session 4</b>	15.15-17.00	<b><i>Wrap up</i></b>

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