

Contents

Note Each section is page numbered separately

Part 1: Introduction

a) Introducing Waterwatch	2
b) About this material	3
c) Introducing water	5
d) Some suggestions for introductory activities	8
e) Glossary	9
f) References	10

Student and Teacher Worksheets

KWHL - recording

Part 2: Turbidity

Introduction and teacher background information	2
Lesson 1 <i>Mixing it up!</i>	5
Lesson 2 <i>The River's Journey</i>	6
Lesson 3 <i>It's sedimentary my dear Watson</i>	9
Lesson 4 <i>Why does turbidity matter?</i>	11
Lesson 5a <i>Would you drink it?</i> - an investigation	13
5b <i>Let's model a catchment</i>	15
Lesson 6 <i>Turbidity and the dairy industry</i> - a case study	17

Student and Teacher Worksheets

Mixing it up! - recording
The River's Journey - reading
The River's Journey - recording
The River's Journey - labels - for teachers
How do different materials settle in water? - recording
Turbidity investigation - planning
A case study: dairy farming and water quality - reading

Part 3: Temperature

Introduction and teacher background information	2
Lesson 1 <i>Are you hot or cold?</i>	5

Lesson 2a <i>Making a thermometer</i>	7
Lesson 2b <i>What's the temperature?</i>	9
Lesson 3 <i>Can changing the temperature affect the health of a water environment?</i>	10
Lesson 4 <i>How can temperature be a problem?</i>	12
Lesson 5 <i>Which is warmer?</i> - an investigation	16
Lesson 6 <i>The Giant Freshwater Lobster</i> - a case study	17

Student and Teacher Worksheets

Are you hot or cold? - recording
How does a temperature change affect water life?
- reading
Temperature investigation - planning
A case study - The Giant Freshwater Lobster - reading

Part 4: Salinity

Introduction and teacher background information	2
Lesson 1 <i>What is that taste?</i>	6
Lesson 2 <i>What has happened here?</i>	7
Lesson 3 <i>What a limp spud!</i>	9
Lesson 4 <i>Is the salt still there?</i>	11
Lesson 5a <i>How saline is that?</i>	12
5b <i>The Liquorice/Salinity Game</i> (optional)	14
Lesson 6 <i>Why does salinity matter?</i>	17
Lesson 7 <i>How does salt affect seed germination?</i>	18
Lesson 8 <i>This is the problem</i> - what do we do now?	19

Student and Teacher Worksheets

The Story of Salinity - reading
The Liquorice/Salinity Game - reading
Riparian plant species - for teachers

How tree clearing may cause dryland salinity
- reading

Salt Watch Fact Sheet - reading

Salinity investigation - planning

How does salt affect seed germination? - for teachers

This is the problem - what do we do now?
- recording

Part 5: Living in a healthy waterway

Introduction	2
and teacher background information	
Lesson 1a <i>What lives in our waterways and where do they live?</i>	6
1b <i>Wow! Water critters!</i>	7
Lesson 2 <i>Where are the houses for water animals?</i>	8
Lesson 3a <i>How do we classify living things?</i>	9
3b <i>Classifying and identifying water animals</i>	11
Lesson 4 <i>Who needs a home?</i>	12
Lesson 5 <i>Let's see what we can find!</i> - an excursion	14
Lesson 6 <i>What is the health of our waterway?</i>	16

Student and Teacher Worksheets

Some ways to collect macro-invertebrates - reading
Freshwater aquatic ecosystem Tasmania - for teachers
Where do macro-invertebrates live? - reading
Water animals and waterway health - reading
Let's see what we can find - excursion hints for teachers
Let's see what we can find - equipment hints for teachers
Waterwatch Macro-invertebrate Identification
Chart - for teachers and students