

Introduction

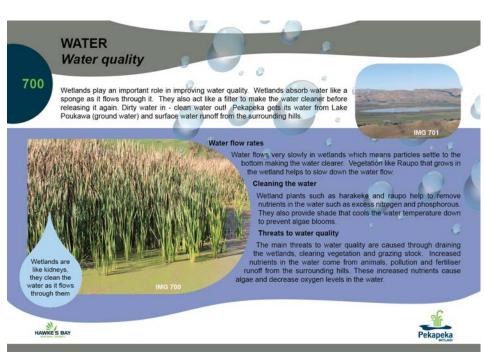
The suggested aim of this section is for students to learn and understand the importance of water quality and the environmental conditions that effect it. Students will have the opportunity to study, observe and test water quality in and around Pekapeka.

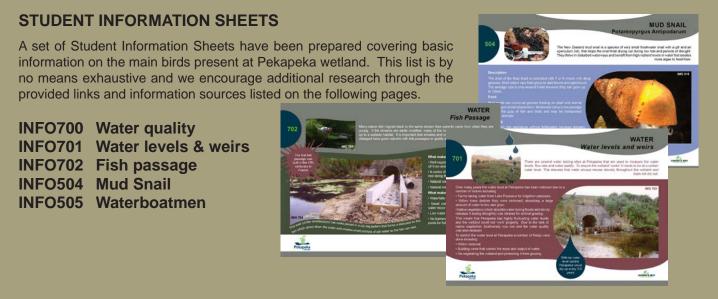
This resource provides information about water quality and contributors, water levels and controls, as well as a list of books and websites suitable for students to further their knowledge of these, and other water topics.

Activity sheets can be manipulated and adjusted to suit the intended learning outcomes and photographs can be used as teacher aids or included in classroom activities, powerpoints and for other curricular activities.

The following activities are based on 'pre-visit', 'on site' and 'post visit' categories and can be chosen according to ages, levels, interests or needs.





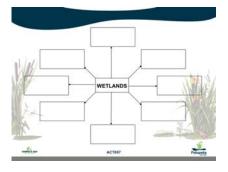






Activities

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PRE-VISIT ACTIVITIES

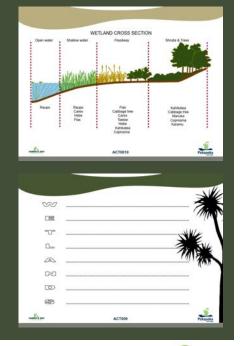
- Have a discussion about water quality why is it important to us? Is it important to wildlife? What affects water quality?
- Investigate the different water sampling devices available and choose and make your own device.
- Look at water samples from around the school. Analyse the pH and dissolved oxygen. (Contact a facilitator from National Waterways to help).
- · Learn how a wetland filters and cleans water.
- Use Activity Sheets ACT007, ACT008, ACT010.

FIELD DAY ACTIVITIES

- While at Pekapeka, make a list of words to describe the water.
- Have a look around Pekapeka and take note of all the things that increase and decrease water quality. Make sketches of each of these things.
- · Take water samples from Pekapeka.
- Use Activity Sheets ACT007, ACT012.

POST-VISIT ACTIVITIES

- Make a poster about water quality. Use the sketches you made on your site visit
 as a starting point. Are any present at your school? Is there any thing that can
 be done to help or ways to teach people about it.
- Analyse the water sample taken at Pekapeka by testing its pH and dissolved oxygen levels. (Contact a facilitator from National Waterways to help).
- Make comparisons with the water samples taken from around the school.
 Make graphs showing the results. (Remember to compare the surrounding environments as well).
- · Use Activity Sheet ACT009.







Additional Resources

BOOKS

Water Quality

By Michael Pelusey

Pub Macmillan Library 2006 ISBN: 978-1-42020-311-0

This book explains the water cycle and how vital it is to look after our water resources, how important it is to keep our water clean and safe to drink.

A Land of Water: Rivers and Lakes of New Zealand

By Pamela McGeorge

Photographs by Russell McGeorge.

Pub David Bateman 2007 ISBN: 978-1-86953-616-9

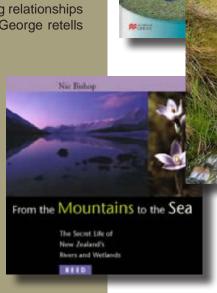
This book tells the story of our waterways and of our enduring relationships with this marvellous life-giving resource. Along the way McGeorge retells Māori legends and stories of the past.

From the Mountains to the Sea

By Nic Bishop Reed Books 1994 Birkenhead, Auckland

ISBN: 0790003473 9780790003474

The secret life of New Zealand's rivers and wetlands



WEBSITES

www.teara.govt.nz
www.doc.govt.nz
www.hbrc.govt.nz
www.fishandgame.org.nz
www.cawthron.org.nz
www.niwa.co.nz
www.wikipedia.org
www.sciencekids.co.nz/water
www.sciencelearn.org.nz
www. seakeepers-nz.com

OTHER INFORMATION SOURCES

School Journals:

Level CN No.3, 2004. Wonderful Water, story by Philippa Werry. Many local authorities run projects in which students take direct action in monitoring and protecting local ecosystems.

Level CN No.2, 1998. Testing the North River, article by Elizabeth McCabe. A group of children and adults spend a day doing scientific tests on the water of the North River. The tests for colour, smell, suspended solids, turbidity, and velocity are described and can be reproduced at any appropriate site.

Water testing kit available to loan from Hawkes Bay Regional Council





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A Water Report

Water Quality



Images







IMG511



IMG700





IMG512



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