

EcoBuzz

EcoBuzz Edition 41

Term One 2011



A haka by Ngatimoti students as part of their Enviroschool Green Gold Celebration.

What's inside?:

- Competitions
- Events for students
- New folk
- Bikewise
- Seaweed
- Waimaori
- Funding
- Waste Education Services
- Fishy stuff with Richard
- Term one dates
- And lots more



EcoBuzz is created with the help of many contributors – thank you to you all! Feel free to share this with others too - please



RESILIENCE

Floods, earthquakes, wars. All are events that pull communities together and require them to find the strength to bounce back. Resilient people can cope with the trials life throws at them and adapt to change. Resilient communities can continue to function in times of emergency or crisis.

All the work that you do to empower young people and help them gain a wide range of skills builds resilience. So whether it's knowing how to grow your own food, catch rainwater, plan a warm house, or understand weather patterns – it all helps to make our young people feel connected to each other and to the natural world. In 2011 let's work together to do all we can to help our young people feel empowered and capable, and most of all resilient.

Equally important is to not remove the natural resilience built into nature - lets do all we can to support a healthy natural environment too.

But hey you are a fabulous teacher so that's not too much to do this year is it? Resilient students and a healthy world to boot! Yay – go for it ☺

There have been some changes and we now must sadly farewell Kate, Roger and Monique from the Enviroschools programme.

But Rob, Karen, Jo and Claire would like to welcome Adie Leng - she has a new position at Tasman District Council as the Environmental Educator Coordinator – more from her later!

Thanks - Jo, Karen, Rob, Adie and Claire

Contact: Nelson City Council

Karen Lee

- Sustainability Adviser
- Ph 546 0339
- Email: Karen.lee@ncc.govt.nz

Jo Martin

- Environmental Education Adviser
- Ph 545 8728
- Email: jo.martin@ncc.govt.nz

Tasman District Council

Rob Francis

- Environmental Education Officer
- Ph 543 8484
- Email: rob.francis@tasman.govt.nz

Adie Leng

- Environmental Educator Coordinator
- Ph 543 7222
- Email: adie.leng@tasman.govt.nz

Claire Webster

- Environmental Educator
- Ph: 525 0020 (ext 450)
- Email: claire.webster@tasman.govt.nz

International Children's Painting Competition on the Environment

Theme: 'Life in the Forests'

Deadline: Entries must reach the relevant UNEP regional office by April 15, 2011.

Students are invited to produce original artworks that focus on forests and their impact on the survival and wellbeing of people everywhere, all seven billion of us. Forests provide shelter to people, and numerous plants and animals; they serve as a source of food, medicine and clean water; and play a vital role in maintaining a stable global climate and environment.

Prizes include a fully paid trip for winners and chaperones to the Tunza International Children's Conference!

UNEP Regional Office for Asia and the Pacific

Tanawan Sarabuddhi
UNEP/ROAP 2nd Floor, United Nations Building
Rajdamnern Avenue
Bangkok 10200 Thailand

E-mail: tanawan.sarabuddhi@unep.org

Go to - http://www.rona.unep.org/documents/activities/FINAL2011_ICPC_packet.pdf for more details.

SIR PETER BLAKE YOUTH ENVIROLEADERS' FORUM

17 - 21 APRIL 2011

The Sir Peter Blake Trust and the Ministry for the Environment are seeking 48 young New Zealand leaders with a passion for the environment and the desire and ability to take action. The 8th annual Sir Peter Blake Youth EnviroLeaders' Forum will be held in Auckland from 17 - 21 April, 2011 and will provide students with many unique opportunities. See the website for further information and to download an application form.

www.youthenviroleadersforum.org

Applications for Nelson High School students are due by **Wednesday 2nd March**. **NCC strongly encourage students from Nelson to apply.**

Nelson students please email or post applications to:

Jo Martin - Environmental Education Adviser,
Nelson City Council *te kaunihera ô whakatû*
PO Box 645 Nelson 7040 New Zealand
03 545 8728, jo.martin@ncc.govt.nz

For Tasman High Schools – congratulations Golden Bay High School on your selection to represent the Tasman region.



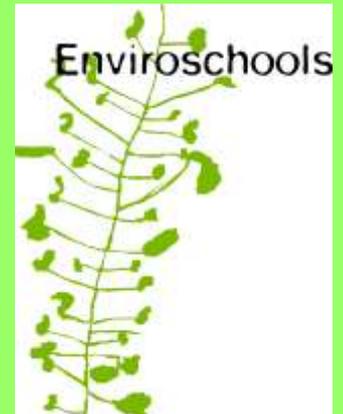
Enviroschools 2011

Kia ora koutou and a very warm welcome back to the new school year

This year we say farewell to Kate Cobb, Monique Patterson and Roger Waddell and thank them very much for their valuable contributions to the development of enviroschools in Nelson and Tasman. It is due to their efforts Enviroschools is doing so well in so many of our schools.

We know many of you will join us to wish Kate, Monique and Roger well for their future endeavours.

“Good-bye and thank-you to all the schools, kindergartens, staff and students that we have worked with. We look forward to hearing their stories continue through the EcoBuzz and scrapbooks.” Kate and Monique



*** Celebration ***

2011 marks the tenth anniversary of the Enviroschools Programme going national, supported by The Enviroschools Foundation, whose leadership is invaluable to the Enviroschools regional network. Check out the next issue of Ecobuzz for more information on the role of the Enviroschools Foundation and how we are going to celebrate this milestone!

Events to look out for this year

- Enviroschools annual Scrapbook contributions are due by June 30th. There will be guidelines on how to contribute in the next issue of Ecobuzz, or contact your Enviroschools facilitator (Jo, Adie or Claire) for more information.
- TRCC Teaching for Sustainability Conference, 25-27 November. There will be a range of workshops and some specifically on Enviroschools. For more information and to register interest: http://www.trcc.org.nz/trcc_2008/doormouse/main/trcc_2008_main.php?pid=4511&expand_id=137
- Term 1 afterschool teacher workshops: “Deepening learning using the Action Learning Cycle” held in Motueka, Richmond and Golden Bay.

News:

- Welcome to Clifton Terrace School – the region’s newest Enviroschool. Clifton Terrace already has a range of environmental projects happening in their school and is well known for its inspirational zero-waste ‘Tea by the Sea’ event last year. It’s great to have them on board ☺
- Golden Bay schools are looking to hold a combined “Enviroschools Expo” in May to showcase the varied and wonderful projects and learning happening around the region of Mohua.



Contacts for the Enviroschools Programme:

Nelson City Jo Martin - jo.martin@ncc.govt.nz 545 8728
Tasman District Adie Leng adie.leng@tasman.govt.nz 543 7222
Golden Bay Claire Webster Claire.webster@tasman.govt.nz
525 0020 ext 450

Welcome to Adie Leng

My name is Adie Leng and I am excited that

I have a new role as Environmental Educator for Tasman District Council, in a team with Rob Francis and Claire Webster. I enjoy working with teachers, students and their school communities, who desire and plan actions to be more sustainable within our wonderful environment. I also really appreciate coming into an active and collaborative, sustainability-focused network in the Nelson and Tasman districts, where opportunities, skills and services are shared.

A little about me; I am a South Islander and I taught for many years in Palmerston North, passionately into environmental education. I first trained as an enviroschools facilitator in 2004, so have lots of experiences from different schools, most recently from the West Coast. I look forward to working here and welcome requests from any schools about 'things environmental' in the Tasman District. I work Monday to Wednesday.

Please contact me by email: Adie.Leng@tasman.govt.nz or ph (03) 543 7222



ReGeneration YOUTH EVENT

A Network of Young Change Makers

The ReGeneration project is an independent network for young New Zealanders who are working to create positive change in their communities, workplaces, families, schools and the natural environment. They support each others work through regular projects, annual events and online networks.

If you would like to know more please have a look around the website <http://www.regeneration.org.nz/>

The ReGeneration Roadtrip project is largely self-funded and we only have a limited capacity to respond to all requests for workshops and visits. If you would like to know more about the ReGeneration Roadtrip or enquire about any of the workshops please contact Will Watterson on 027-338-7786 or email willwatterson@gmail.com

Youth Jam

The ReGeneration team have a booking at the New Hub for a ReGeneration Youth Event on Friday 4th and Saturday 5th March. There is space for 30-40 participants and they would like to invite senior secondary students from Nelson/Tasman along to that. Keep an eye out for the information flyer coming around to secondary schools in February.

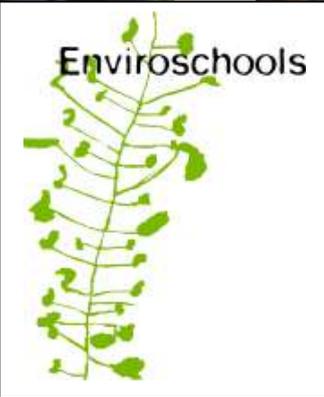
Schools Visits

ReGen have been able to employ Will Watterson from Global Focus in Wellington to facilitate their schools workshops – information about the workshops will sent out to schools in time for the first week back.

Community Meeting

The team are working on a Pecha Kucha evening in Nelson on the 2nd March as a way to meet up with local community organisations. All welcome, location to be advised.





Well this is a case of a picture tells a thousand words – congratulations to Salisbury and Ngatimoti schools for gaining Green Gold EnviroSchool Awards late last year and Greenwood Kindergarten for being the first *Early Childhood Centre in Tasman* to gain the EnviroSchools Bronze Award in Tasman.
You are all fabulous!



What on earth is a TOTSEE???

TOTSEE is the Top of the South Environmental Educators forum; a networking group for people working in environmental education in this region. The group meets once a term to share ideas, information and news. Both EE providers and teachers are welcome and the meetings are held on a Wednesday afternoon at 3.30pm. Meeting dates and TOTSEE contacts are listed below. If you would like to be part of the TOTSEE email list, please email jo.martin@ncc.govt.nz - there is no obligation to attend the meetings but everyone is welcome.

TOTSEE meeting dates for 2011:

Term 1: Wednesday 9th March, 3.30pm, Nelson Environment Centre, 1 Braemar Pl,
Upper Franklyn St, Nelson.

Term 2: Wednesday 17th May, 3.30pm, location to be advised.

Term 3: Wednesday 31st August, 3.30pm, location to be advised

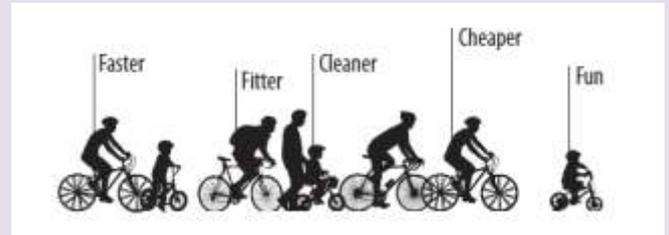
Term 4: Wednesday 23rd November, 3.30pm, location to be advised

BIKEWISE MONTH FEBRUARY 2011

www.bikewisechallenge.co.nz

February is Bike Wise Month and Nelson Tasman residents are being encouraged to dust off their saddles for a series of biking events and promotions around the region. It's the annual celebration of the bicycle – invented nearly 200 years ago – and the health, environmental, social and financial benefits cycling uniquely offers. A series of events are planned for Nelson and Tasman throughout Bike Wise Month.

For full details go to www.bikewise.co.nz.



Go by Bike Day

Anyone out and about on their bike on one of these mornings will receive a free breakfast snack....

Takaka – Tuesday 15 February – outside The Quiet Revolution, between 7.30am and 9.30am

On Wednesday 16 February at -

Murchison - outside the Tasman District Council offices on Fairfax Street, between 8.30 and 9.30am

Motueka – outside the Museum on High Street, between 7.30am and 9.30am

Richmond - outside Village Cycles on Queen Street, between 7.30am and 9.30am

Stoke - Cycle Surgery - Main Road between 7.30am and 9.30am and

Stoke Cycles - On railway reserve behind Broadgreen Intermediate.

Nelson - R & R - corner of Bridge St and Rutherford St, between 7.00am and 9.30am

Stewarts Cycles - Hardy St between 7.00am and 9.30am

Kelvins Cycles - Rutherford St between 7.00am and 9.30am

RIDE - Halifax St between 7.00am and 9.30am

Family Fun Rides

These rides are open to all cyclists from the young to the old and each ride has different lengths routes to suit all ages and abilities of cyclists.

Takaka - Sunday 20 February. This ride starts from Central Takaka School at 1pm

Motueka - Sunday 27 February. The ride starts at the Skate Park on Old Wharf Road at 1pm.

Richmond/Nelson - Saturday 5 March. This is a joint TDC, NCC and Tear Fund Ride. The ride starts at

Annesbrook Church on Saxton Road at 9am. There are three route options

Register for free at www.poverty.org.nz

Contact: **NCC Margaret Parfitt**, Transport and Road Safety Adviser,
phone 546 0390.

TDC Krista Hobday, Road Safety Coordinator,
phone 543 8551



TOTSEE contacts:

<u>Organisation</u>	<u>Person</u>	<u>Phone</u>	<u>Email</u>
TASMAN DISTRICT COUNCIL	Rob Francis	5438484	Rob.francis@tasman.govt.nz
TDC	Adie Leng	543 7222	Adie.leng@tasman.govt.nz
TDC	Claire Webster	525 0020	Claire.webster@tasman.govt.nz
NELSON CITY COUNCIL	Karen Lee	546 0339	Karen.lee@ncc.govt.nz
NCC	Jo Martin	545 8728	Jo.martin@ncc.govt.nz
ENVIROSCHOOLS:	Adie Leng (TDC Tasman)	543 7222	Adie.leng@tasman.govt.nz
ES	Claire Webster (TDC Golden Bay)		Claire.webster@tasman.govt.nz
ES	Jo Martin (NCC)	545 8728	Jo.martin@ncc.govt.nz
SMALL PLANET	Sarah Langi	545 9176	sarahlangi@nec.org.nz
NELSON ENVIRONMENT CENTRE:	Grant Jones (CEO)	545 9176	GrantJones@nec.org.nz
WASTE EDUCATION SERVICES:	Sarah Langi	545 9176	sarahlangi@nec.org.nz
KIDS EDIBLE GARDENS IN SCHOOLS	Lindsey Fish	545 9176	lindseyfish@nec.org.nz
DEPARTMENT OF CONSERVATION	Rudy Tetteroo	528-1810	rtetteroo@doc.govt.nz
DOC	Jazz Scott	546 3152	jscott@doc.govt.nz
WAIMAORI STREAMCARE PROGRAMME	Mel McColgan	548 1803	titi711@gmail.com
KIWI CONSERVATION CLUB (FOREST & BIRD)			kcc@forestandbird.org.nz
FISH & GAME NZ	Lawson Davey	544 6382	ldavey@nmfgc.co.nz
NATURELAND ZOO:		548 6166	school@naturelandzoo.co.nz
NZ MARINE STUDIES CENTRE	Richard de Hamel	540 3755	richard.dehamel@stonebow.otago.ac.nz
WHENUA ITI OUTDOOR PURSUITS CENTRE	Catharine Wood	5268742	info@whenuaiti.org.nz
TUATARA TRUST	Louisa Paul		info@tuataratrust.co.nz
BROOK WAIMARAMA WILDLIFE SANCTUARY	Rick Field	546 9175 extn: 683	education@brooksanctuary.org
COMMUNITY ORGANIC GARDENS - Waimarama Nelson	Susan Ledingham	548 4575	waimarama@actrix.co.nz
VICTORY COMMUNITY GARDENS	Jocelyn Winter	546 8381	victorygardens@victory.school.nz
MOTUEKA COMMUNITY GARDEN	Richie Atkins	021 02651332	motuekacommunitygarden@gmail.com
HEALTH PROMOTING SCHOOLS	Nita-May Bern-Hippolite		nita.bern.hippolite@nmhs.govt.nz
TREES FOR SURVIVAL	David English	09 5261561	david@tfsnz.org.nz
PAPER 4 TREES	EERST Trust	07 578 7025	paper4trees@eerst.co.nz
NELMAC	Reception	546 0910	nelmac@nelmac.co.nz
CHILDREN'S LIBRARIES?- Nelson	Margot Collins	546 0404	Margot.collins@ncc.govt.nz



Weedbusters 2 minute film challenge 2011

Teachers: - Your students could win \$1000 for your school with the Weedbusters 2-minute Film Challenge for Year 1-8 students. Get creative, learn heaps, and help save the environment! What's the challenge about?

Students need to create a short clip (up to 2 minutes long) that tells a story about ornamental garden plants that have 'jumped the fence' and are now causing environmental damage in natural areas of New Zealand.

To sign on for the challenge go to

http://weedbusters.co.nz/weedbusters_in_schools/2minute_film_challenge.asp



20 and 21 August 2011 @ the Trafalgar Centre

Please email Jo Reilly on Ecofest@xtra.co.nz or call 03 5433 663 for more information.

Funky Fashion Shows

(Fashion created from recycled items)

@ Ecofest, Trafalgar Centre

Senior category - years 9 + and Junior category - years 5-8

Trophy for each category, voted for by the public.

This can be linked to any waste-related studies, and to recycle, re-use, and create! Information sheets and master copies of entry forms will be emailed during term one, but if anyone is particularly interested, please email Jo Reilly on Ecofest@xtra.co.nz or call 03 5433 663 for more information.



Nelson Growables is offering all Tasman and Nelson Schools a stand at the 2011 event on Sunday, 13 November @ A great opportunity for fundraising, showcasing your school's growing' success, Enviroschools activities or kids' edible gardens.

Nelson Growables is a non-profit community-focused event to promote the knowledge and enjoyment of all things growable. Plan NOW to grow and sell seedlings, make seed balls, plan a second hand garden gear stall, or any other great idea to celebrate growing and 'growable' learning at your school. The limit is only your imagination!

We can offer support with seeds, potting mix, containers, expertise, ideas and information, publicity and a guaranteed attendance of over 4,000 people at Nelson Growables.

Great feedback was received from all three schools that attended in 2010, with the following quote from Stoke School - *"We enjoyed being part of the day and felt it gave our school a great profile so thank you for the opportunity. The whole thing was a roaring success from our point of view and what a gorgeous venue."*

Email Jo Reilly on info@nelsongrowables.co.nz or call 03 5433 663 to find out more, or visit our website: www.nelsongrowables.co.nz.

SAVE THIS DATE – 4 May 2011 at 7pm

Launch of the Nurturing Resilient Youth initiative with Celia Lashlie

A new group – Nurturing Resilient Youth Group - is working across organisations and throughout the community to develop to work together to address issues affecting young people in our region.

The group's intention is for this to be an ongoing initiative that develops the ability in youth to bounce back from daily adversities by supporting those that nurture our youth: parents, educators and leaders in our community. These nurturers need to be equipped to provide young people with the six elements that promote resiliency:

- *positive connections;*
- *clear, consistent, and appropriate boundaries;*
- *life-guiding skills;*
- *nurture and support;*
- *purposes and expectations;*
- *meaningful participation.*

On the 4th of May 2011 the Nurturing Resilient Youth Group is launching the initiative to make this happen in Nelson. The launch will include a keynote presentation to the community at large by Celia Lashlie. This will be a fantastic time to get everyone together. But we need to go beyond that.

Our intent from this launch is to have interested parents and other community members participating in a follow up workshop where goals and actions that support the resiliency of youth are developed.

For more information, contact resilient.youth@clear.net.nz -Or-

Go to our webpage: <http://www.nelsoncitycouncil.co.nz/nurturing-resilient-youth/> for regular updates.

Many thanks to the following sponsors: Nelson City Council, Canterbury Community Trust, Nelson Safer Community Council, Victory Community Centre, Nelson College for Girls.

Demystifying Packaging Choices Competition!!!

New Awards for Best and Worst NZ Packaging

It's almost everywhere you look, it's on almost everything you buy,

“Look at the packaging”, we hear you cry! Is it good? Is it bad? Is it the best you have ever had? Does it make you smile or hang your head in disgust. Is all this packaging something you can trust?

Where does it come from, where does it go? Send it to us, we want to know!

Now's your chance to have your say. Get looking for packaging today!!!

The world of packaging is a crazy confusing place sometimes. Over-packaging, non-recyclable packaging, packaging that says it's environmentally friendly but really isn't, one-hit wonder non-reusable packaging, and then, just sometimes, you stumble on something that hits the nail on the head.

We at Wanaka Wastebusters are running a fantastic competition to find out exactly what are the best and worst examples of packaging we can find in New Zealand and we need your help. We want you to find examples of what you think is the best and the worst.

The 6 categories to keep in mind when looking at packaging are:

1. Is it recyclable?
2. Is it reusable?
3. Does it do the job it is designed for?
4. How is the volume of packaging - minimal/excessive?
5. Is it innovative?
6. Is the label truthful and informative?

Check out our very exciting new website www.unpackit.org.nz for the competition ins and outs, ups and downs, rules and regulations, the different entries, info on the very exciting prizes and much, much more...

The competition is open to everyone and anyone.

Entries close - Sun March 20th

Demystifying packaging — don't miss this fabulous, circus-style roadshow

...coming to Nelson 8 and 9 April

Hold on to your hats, grab a coffee, put your feet up, and get ready to dive into a very exciting and wonderful project we want you to be involved with. It's Wanaka Wastebusters here—we have recently received funding from the Ministry for the Environment Waste Minimisation Fund for a project to Demystify Packaging Choices. As part of this project we will be travelling the length of the country with a fantastical roadshow of circus delights and packaging mischief from 1–23 April

AND--wait for it--we will be in Nelson on Fri 8th April for schools visits,

and Sat 9th April for the market!



There will be time for about 4-5 school shows for schools in Nelson and/or Richmond. Sadly, schools further from Nelson will not be offered a show, but the competition is open to all and you can catch the show at the Nelson Saturday market.

If you are interested in our roadshow coming to your school, please contact:

Ivy Willmot ivy@wanakawastebusters.co.nz

03 443 8606 ext 9 021 285 6969

UNPACKIT.org
demystifying packaging

Unpackit 2011 Packaging Awards
www.unpackit.org.nz
email@unpackit.org.nz



The aim of the Waimaori programme is for schools and sites along their local stream in order to:

- Carry out seasonal monitoring of water quality at their site
- Plant native trees and grasses at their adopted site, or nearby.
- Gain the skills and knowledge to measure water quality.

This is a free programme, easily adapted to teachers' needs. Waimaori links to curriculum areas such as social sciences, science, community health and wellbeing. This programme encourages students to carry out their own investigation, problem solve and take action.

Workshops are for a minimum of one hour, or maximum half day. We encourage re-visits to the stream over time – “adoption” of school's local waterway, but can easily adapt to suit your timeframes and requirements.

The programme includes:

- Protection and Restoration of freshwater habitats
- Environmental science and biodiversity
- Identification of stream life - bugs (macro-invertebrates) & freshwater fish.
- Kaitiakitanga/Guardianship

Contact - Mel McColgan - WAIMAORI STREAMCARE PROGRAMME
(03) 545 1752 021 119 2255

Sounding Fishy!!

The new year is bringing quite a few changes, all of which will give a teachers a wider choice. The Ministry of Education has signalled a change in the way LEOTC contracts will be awarded.

They will now be looking for providers who can provide as wide a range of collaborative programmes as possible, rather than the current 'site-specific' programmes. This won't be the end of the current Aquarium based programmes, but it will broaden the scope of what I can offer. This suits me as I have always found it hard to teach about the largest habitats on the planet, while stuck inside a building.



Over the last few years I have been working on new programmes that use the Waimea Inlet and estuaries. The first of these was the Maori fishing technology Programme, that looks at what the local Maori ate and how they caught their food. Many classes have enjoyed the experiments carried out on the fish in the aquarium! I now have a range of studies that children can do which begin with field work on the estuary. The Snail Racing Programme looks at the quantity of mud processed every day by

Mud Snails on the Waimea estuary and it's implications. Other new programmes I have from the Marine Studies Centre look at the parasites found in some types of shellfish. You may never look at a cockle the same way again!

I am also in the process of developing a fossil and dinosaur programme based largely on the marine fossils found around Nelson in association with members of the Nelson Rock and Mineral Club. Students will be meeting some of the local fossils and making copies to take back to the classroom. We will learn about what the fossils tell us about life on planet Earth when they were living here.

We are also trialling a new programme using the "Steadfast", a replica early 1900's sailing vessel, to take students on a voyage of exploration and discovery. We will head out into Tasman Bay with our young naturalists to document and discover what we can, in a similar way to those carried out by HMS Beagle, or HMS Endeavour. We will be taking samples and specimens, noting depth and water temperatures etc as well as handling a beautiful sailing vessel.

My new numeracy programme, "How Big" progresses and should be ready soon! It uses lots of "Hey wow" facts and information coupled with nifty calculations and extrapolations to find out and extend the thinking of a wide range of marine topics.

There has been a small photo-filled museum on the wharf at Mapua for many years, and to be honest, a bit boring to the average child. But it has been changed! It now has interactive components, and fun details that make it much more child friendly. It also interprets parts of the marine environment that we can't do very well at the aquarium. Since it is literally over the road from the Aquarium it gives an added new dimension to the aquarium trip for no extra effort, and minimal cost - a koha appreciated.

Looking forward to seeing you soon!

Richard de Hamel

(Educator based at Touch the Sea Aquarium, Mapua)

NZ Marine Studies Centre,
University of Otago.

**LEOTC Educator based at
Touch the Sea Aquarium**

Ph/fax 03 5403755,
cell 021 1318334



Zero Waste Grants for Schools & Early Childhood for Tasman Region



Do you have a great idea that could reduce waste?

Tasman District Council's Zero Waste Grants may be able to help you put it into practice.

Zero Waste Grants are available to all schools and early childhood education centres, in the Tasman District to help promote waste reduction ideas and projects and/or educate others about the importance of reducing waste. Funding is available to help you set up projects that reduce the amount of waste they produce such as the purchase of collection bins, compost or worm farm bins or develop educational material on waste minimization. Funding cannot be used for buying plants or gardening equipment. This is a contestable fund.

Please note grants are not available for schools and early childhood education centres working in the Nelson area.

Closing Dates for applications

- For funding requests of \$1000 or more - closing date
- For funding requests of \$999 or less – two closing dates
 - **Mon 21 March 2011** (end of Term 1)
 - **Mon 26 Sept 2011** (end of Term 3)

Contact Waste Education Services for further information about the Zero Waste Grant fund or an application form on 03 545 9176 or email info@wes.org.nz
Information can also be downloaded from www.wes.org.nz

Happy New Year from the schools team at Waste Education Services!

Our Waste Education Services (WES) schools team is ready to help your school with any waste-related information, activity ideas or assistance.

Contact us at info@wes.org.nz to book a visit with your local facilitator, or phone the Nelson Environment Centre 03) 545 9176. Check out our website too, for free resources and ideas www.wes.org/schools



Obsessed with your rubbish bin? Want to make your school zerowaste?

You are invited to a meeting of teachers and others who are passionate about waste education and reducing waste. Craig Maybee and Lisa Kirk, teachers at Broadgreen and Waimea Intermediate schools who have spearheaded the drive to make their schools zerowaste, are keen to meet other like-minded teachers. At this meeting, we can introduce ourselves, share ideas and decide how best to support each other.

The meeting will be held at Waimea Intermediate in Lisa's classroom (Room 1) on Thursday 3 March at 3.30pm – 4.30pm, complete with cake!

Check out these new resources for waste education:

- **Be resource smart: Wise up on Waste.** WEAAR 2010. – an excellent resource designed to help primary and intermediate students take personal responsibility for their consumer choices and explore alternatives to sending waste to landfill. Developed by WEAAR (Waste Education across the Auckland Region). Can be downloaded free from www.wes.org.nz/schools/resources
- **Tip the balance on waste.** Environment Canterbury. — an interactive resource. www.ecan.govt.nz/education. Click on *Tip the balance on waste*.
- **Composting Kids**— a great dvd presented by kids for kids on how to make compost, do bokashi, maintain a worm farm. Order your copy from www.earthwhile.co.nz Costs \$18.95 incl. GST.
- Check out our revamped website: www.wes.org.nz/schools for info and free resources on waste.

GREENWASTE TO ZERO CO LTD
 Greenwaste Recycling Specialists

- 100% Organically Produced
- Compost by the bag or Bulk
- Topsoil
- Mulch
- Feature Rocks
- Shale
- Blue Gum Sleepers
- Plants

Ph: 03 544 8857
 18 Cargill Place, Richmond



What to do with all your paper towels and more interesting facts

Greenwaste to Zero in Richmond will accept all your school paper towels (and, of course, greenwaste) for a discounted fee for schools of \$12.50 per trailer (normal price \$16). They are also happy to give guided visits to school kids for a donation. Students need their own gloves. Phone 03 544 8857 to find out more or book a visit. Every square kilometre of sea contains 46,000 pieces of plastic. Sunlight breaks down the plastic into smaller and smaller pieces until it resembles plankton. Fish ingest this poisoned plastic. *Good* magazine. June/July 09. Five 2-litre plastic milk bottles make enough fibrefill to make one ski jacket; 35 bottles make enough to fill one sleeping bag and 36 make one square metre of carpet.

Teaching for Sustainability Conference 2011, Mō Āpōpō

Rutherford House, Victoria University, Wellington
25th Nov to 27th Nov Director: Pam Williams

Registrations close 29th
October, 2011

Catering for Early Childhood, Primary and Secondary Teachers in both English and Māori Medium

Secondary / Wharekura

- Examples of good practice years 9 – 13
- NCEA –providing relevant and exciting courses
- 'Brainfood' – possible, probable, preferred futures?

Primary / Kura

- Exploring eco-literacy and eco-numeracy in the NZC and TMoA
- Integrating sustainability concepts into your programmes
- Enacting sustainable practices

EC / Kohanga Reo

- Sustainable teaching practice in EC settings
- Examples of best practice and recent NZ research
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Costs: (if paid by Early Bird date 14/10/11, if paid after this date an additional \$100 applies.)

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Some websites that may be useful or at least interesting! -

Links to an endless supply of projects, companies and ideas for what to do about reducing or educating about climate change - www.tiempocyberclimate.org/newswatch/arideas.htm

Clever ideas about using junk for play and more - www.childrensscrapstore.co.uk/

North American Association for Environmental Education -

<http://eelink.net/pages/Lesson+Plans++Grades+PreK-5>

Environment Canterbury have a number of useful activities –

<http://ecan.govt.nz/advice/your-school/lesson-resources/Pages/living-here-kids.aspx>

create your own eden

Create Your Own Eden provides an introduction to great composting and food growing techniques. Roadshows give a general overview of good composting techniques and provide a great opportunity to get your questions answered by a local expert. Workshops provide more detailed information on composting and food growing techniques on an urban section. All roadshows and workshops are free of charge, but advance registration is required for workshops.

Create Your Own Eden Schedule – Autumn 2011

- Sat 5 Feb – Richmond Mall – Roadshow – 9.00am – 12.00pm
- Sat 12 Feb – Mitre 10 Mega, Nelson – Roadshow – 11.00am – 2.00pm
- Sat 19 Feb – Tahunanui Community Centre – Workshop – 2.00pm – 4.00pm
- Sun 20 Mar – Motueka Sunday Market – Roadshow – 8.00am – 1.00pm
- Sat 5 Mar – Bunnings – Roadshow – 11.00am – 2.00pm
- Sun 13 Mar – Motueka Sunday Market – 8.00am – 1.00pm
- Sat 19 Mar – Nelson Sat Market – Roadshow – 8.00am – 1.00pm
- Sat 26 Mar – Nayland College – Workshop – 2.00pm – 4.00pm
- Sat 9 Apr – Richmond Mall – Roadshow – 9.00am – 12.00pm
- Sat 16 Apr – Nelson Environment Centre – Workshop – 2.00pm – 4.00pm

Create Your Own Eden is funded by the Nelson City and Tasman District Councils, and delivered by Nelson Environment Centre.

For further information about any of the roadshows or workshops, please contact Elizabeth Hovell at Nelson Environment Centre on 03 545 9176 or by e-mail: info@nec.org.nz.



SEAWEEK FEBRUARY 26-6 MARCH 2011

Seaweeek 2011 - The culture, history and traditions of the sea.
Kia kaha tangata moana!

The sea is an integral part of life in Nelson – part of our culture and history. But the sea wasn't always where it is now.

Debbie Daniell-Smith at Nelson City Council has put together a walk called 'Tracing the Tideway' which traces the shoreline around the Paruparu Estuary in 1840. As a special event for Seaweeek 2011 Debbie is offering 30 minute guided walks, suitable for years 5-13, visiting 5 places on the map around part of the old shoreline. Imagine a jetty with boats tied up alongside in Bridge St... There are 6 slots available on Tuesday 1st March and Wednesday 2nd March for guided walks, meeting in Bridge St behind the bus station and finishing at Pioneers Park. There is no charge, however we will need parent supervision and maximum group size is 30 children (although we would prefer smaller groups where possible).

If you are interested in booking this walk **please email jo.martin@ncc.govt.nz by 16th February** with your preferred time.

For those who would prefer to do the walk themselves, a map of the walk and interpretation notes are below. The full route takes one hour and as of March there will be an iPod application available to download from 'the Prow' website www.thePROW.org.nz for a full audio guide of the walk. There are also many associated stories available on the PROW website - great for a research topic based on Nelson's history, geography and relationship to the sea.

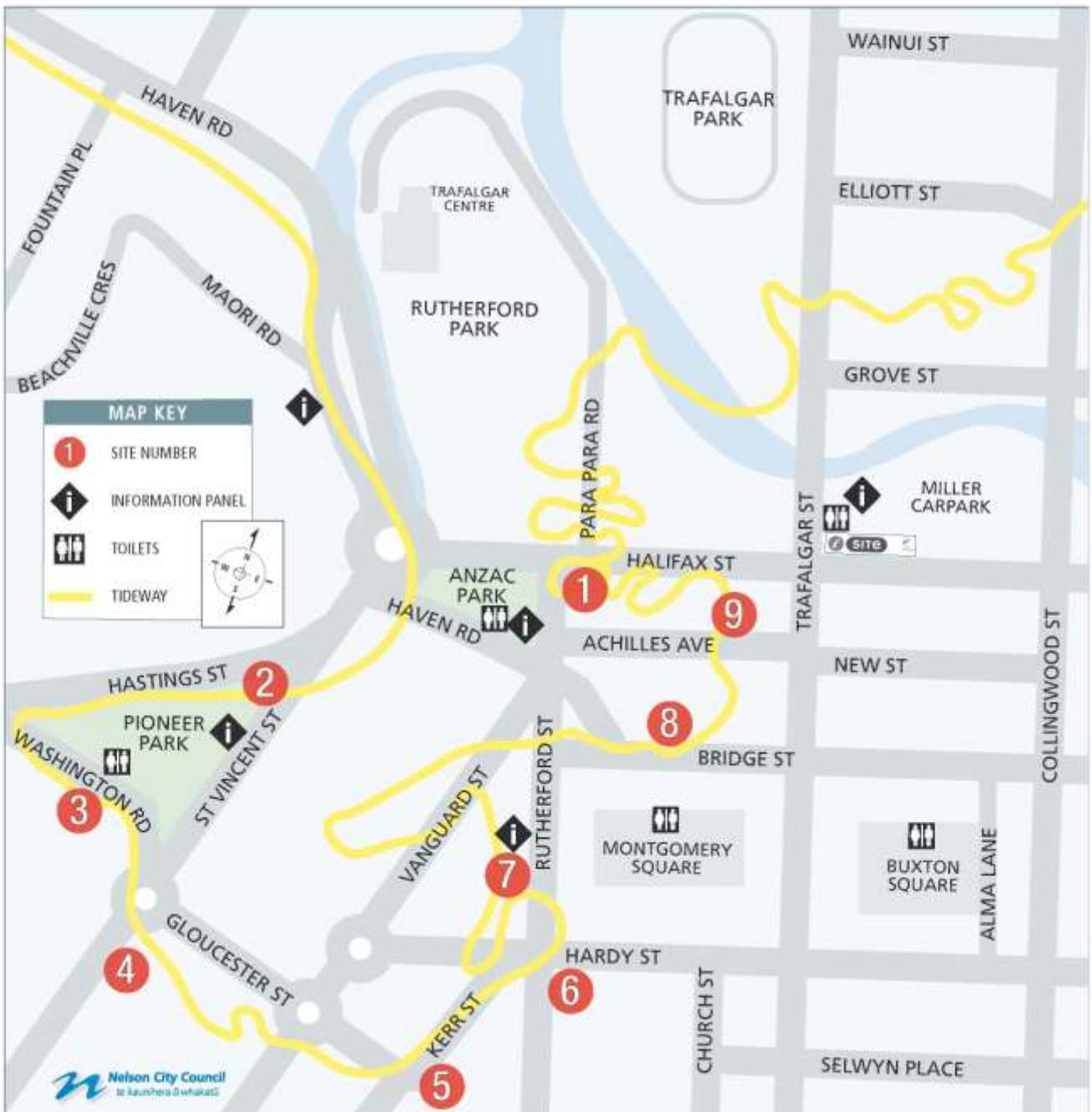
The sea is so important to us in so many ways – let's celebrate it!



Tracing the Tideway Walk

In the 1840s the Paruparu Estuary was a mahinga kai (food gathering area) for Maori. It was flooded by the high tide, and fed by streams from the Toitoti Valley, Washington Valley and the Mahitahi (Maitai River) floodplain. European settlers called it 'The Tideway' and the area was bridged and gradually reclaimed. Follow the shoreline plaques to points of interest along what was once the Estuary frontage. When reading a plaque you are facing the direction where water would have met the shoreline.

Go to www.thePROW.org.nz for an extended audio version of this walk along with other stories about Nelson. More heritage information, and heritage walks and events can be found on www.nelsoncitycouncil.co.nz



Tracing the Tideway Walk



Plaque 1 marks the eastern side of the entrance to Paruparu Estuary. Early settlers called the Estuary 'The Tideway' and built a causeway across it to make access between the port and the town centre easier. It ran roughly along Halifax Street from this point. At the Haven Road end was Saltwater Bridge which was completed in 1842. Anzac Park was originally known as Milton's Acre and in the mid 1800s fishing boats tied here. Captain Millton's land was purchased by the Nelson City Council in 1897 and by 1912 the area bounded by Haven, Halifax and Rutherford Streets was reclaimed. Following World War 1 (1914 - 1918) the reserve was dedicated to soldiers from New Zealand and Australia who had been lost in wars, and named ANZAC Park.

Plaque 2 is at the base of Matangi Awhio, the former site of a major pa and heart of Nelson for Māori. An information board here tells the history of Pioneers Park and its reclamation to become a reserve. The mural on Whakatu Dance Academy recalls typical vegetation found around the Paruparu Estuary in 1840s. Across the Park, beyond the colourful mosaic on the public toilets is **Plaque 3** on Washington Road, which was once an early route from the port to the city. **Plaque 4** at St Vincent Street was also on the southern edge of the Estuary giving an idea of how wet walkers could get at high tide as they headed towards Pikimai/Church Hill.

St Vincent Street was where the early railway line ran. The line was proposed in the 1860s and permission was given in 1871 to start work on a track intended to meet up with the main trunk line linking Nelson to the rest of the South Island. Construction of the first 30.4km stage, from the city

to Foxhill, began in 1873 and it opened in 1876. The line followed St Vincent Street, at the time a controversial choice. Sadly the line was doomed never to be finished and was eventually closed despite public protests by 1955.

The naming of St Vincent Street and nearby Vanguard Street was done by an early street naming committee. The names link with Admiral Lord Nelson, after whom the city is named. Early settlers' names also were used for street names. Kerr Street and **Plaque 5** recall John Kerr, famous for ploughing the first furrow in Nelson in 1842. His bullock paddock was nearby this area.

Places along the small eastern inlet of the estuary are marked by **Plaque 6** at Pomeroy's Coffee House and by **Plaque 7** at Theatre Royal, which has an information panel next to it. The Theatre opened in 1878 and was refurbished to its former glory in 2010. Special trains ran for patrons on theatre nights during the 1880s. Drainage used to be a problem in this area, particularly at high tides or after heavy rain, with one memorable night for those in the orchestra pit playing in six inches of water.

The edges of the larger eastern inlet can be found along Bridge Street. **Plaque 8** is beside Wills Jewellers, a small historic building thought to date from 1855 and be the oldest commercial building in the central business district of Nelson. A fisherman's jetty once sat at the back of the building in Wakatu Lane. The building is also remarkable for being owned by five women spanning four generations of the one family over 96 years. Across Wakatu Square **plaque 9** marks the other side of the inlet.

This website contains lots of inspiration and ideas

The top 5 Climate Artists of 2010 as determined by popular vote are:

- 1st place: [No Pollution Please](#) by *[Chris-Lamprianidis](#) (Greece)
- 2nd place: [AIR](#) by ~[jeffreydurden](#) (Bolivia)
- 3rd place: [Oil Spill Duck Sculpture](#) by ~[livesteel](#) (USA)
- 4th place: [Don't Trash It](#) by The Starkman Group (USA)
- 5th place: [Tick Tock](#) by ~[julietmciver](#) (USA)



Environmental Event dates for term one 2011

World Wetland Day <i>Forests for water and wetlands</i>	February 2	www.ramsar.org
Bike Wise month	Month of February	www.bikewise.co.nz
Go By Bike Day	Wednesday, 16 February	www.bikewise.co.nz
Nelson Environment Centre Opening	February 25	www.nec.org.nz
Sea Week –“Back to the Future!”The culture, history and traditions of the sea. Kia kaha tangata moana!	February 26 – 6 March	www.seaweek.org.nz
Passionate about waste network meeting Waimea Intermediate School, Room 1 (open to any interested teachers in Nelson and Tasman schools)	3 March: 3.30pm – 4.30pm	www.wes.org.nz
ReGeneration Youth Event at the New Hub - Nelson	4,5 March	www.regeneration.org.nz
Children’s Day	March 6	www.childrensday.org.nz/
Walk to Work	March 16	www.livingstreets.org.nz
World Water Day	March 22	www.worldwaterday.org
Giant Pumpkin Growing Competition - Mapua Tavern	26 March 2011 - 2:00pm	Contact: Martyn Barlow : 021 31 41 61 www.nec.org.nz/node/607
Earth Hour 2011: growing beyond the hour.	26 March 8.30 pm	www.earthhour.org/
World Health Day <i>Antimicrobial resistance and its global spread</i>	7 April	www.who.int/world-health-day
Demystifying packaging roadshow, Nelson (show on 8th will be held at 4 schools in Nelson and/or Tasman: show on 9 th is in Nelson Sat market public--- open to all.	8 & 9 April:	www.wes.org.nz
Youth Enviroleaders Forum	11 – 15 April	www.sirpeterblaketrust.org/environment/youth environment forum/
?		

Activity 1: Waste or resource? (levels 1–4)

(adapted from *Be resource smart, Wise up on waste.*
WEARR.2010. pages 25–27.)



You will need:

- images of waste—students can photograph images of waste and laminate, e.g. piece of paper, apple core, juice box. (You will need at least one different waste image per student.)
- labels: REDUCE, REUSE, RECYCLE, WORM FARM, COMPOST, BOKASHI, LANDFILL
- safety pins.

How to play

Use this game as a fun introduction to identify with students what is waste and what could be a resource if reused, recycled or composted.

1. Pin a laminated waste card on everyone's back.
2. Students move around classroom to ask yes or no questions from each other to guess type of waste on their back.
3. Students sit in circle with cards face up in front of them, so everyone can see the many varied types of waste. Ask students "What do we do with these items when we are finished with them?" (Generally we send them to landfill—is there a better way? FACT: Auckland region generates approximately 120,000 tonnes of rubbish a month = 1 rugby field 10 stories high!)
4. Ask students "Is there a way we could start to group different types of waste?" For example: things we could reduce, reuse, recycle, landfill, worm farm, compost bin, bokashi.
5. Have students group images to see how much could be diverted from landfill by reducing, reusing, recycling, using a compost, worm farm or bokashi bin.
6. Under these headings, what would be grouped as a resource or waste?

Note: Items that are reduced, reused, recycled, composted, etc., actually become useful resources and not waste!

How will this help our environment?

- Landfill life is extended
- Conserves natural resources
- Reduces number of truck trips to the landfill
- Reduces energy to produce items we buy

For example, the energy saved by recycling the following materials plus the extraction of non renewable resources is as follows:

- Recycling steel saves 60%
- Recycling glass saves 40% energy to make from new and saves natural resources
- Recycling plastic saves 70% energy and natural resources
- Recycling aluminium saves 95% (75% back to aluminium drink cans)
- Recycling newspaper saves 40% energy (egg cartons/newspapers/cardboard are made from recycled newspaper)

Reflection questions

- What surprised you?
- What did you learn?
- How could you use this knowledge?

ACTIVITY 2. Waste timeline (Levels 1-4)



Objective: To give students a visual representation of the time it takes for various materials to break down by relating the time to concrete examples.

Materials:

- 10 m piece of coloured string
- metre ruler or tape measure
- clothes pegs
- variety of waste materials, e.g. apple core / or create cards with images of waste

Instructions:

Round one: Creating a timeline (working in groups of 3-4 people)

- Place a 10m timeline across the room or along one wall; or use chalk and draw a line along the concrete.
- Using materials you have, mark out every 100 years on the timeline (1m=100 years).
- Label the beginning of the line TODAY!
- Using the cards, answer the questions and place the cards in the correct position on the time line.

Reflection questions:

- How long are most people expected to live? (80 years)
- How does this age compare with the total length of the time line?
- What skills did you use to create the timeline?

Round two: How long to rot?

- Give each group a range of waste items.
- Students discuss and decide how long they think it will take each article to breakdown (under ideal conditions).
- Place (or hang) their articles on the timeline showing their estimate.

Reflection question:

- What criteria did you use to estimate the time it would take for articles to breakdown?

Round three: According to the statistics

- Give each group the card showing the real time for the articles to break down.
- Get the students to move their article along the time line to place it at the estimated time to break down according to the statistics given.

Reflection questions:

- What surprised you?
- What did you learn?
- How could you use this knowledge?

HOW LONG WILL IT TAKE TO BREAKDOWN?

Article	Time to break down
Orange or banana peel	up to 2 years
Plastic bag	20-1000 years