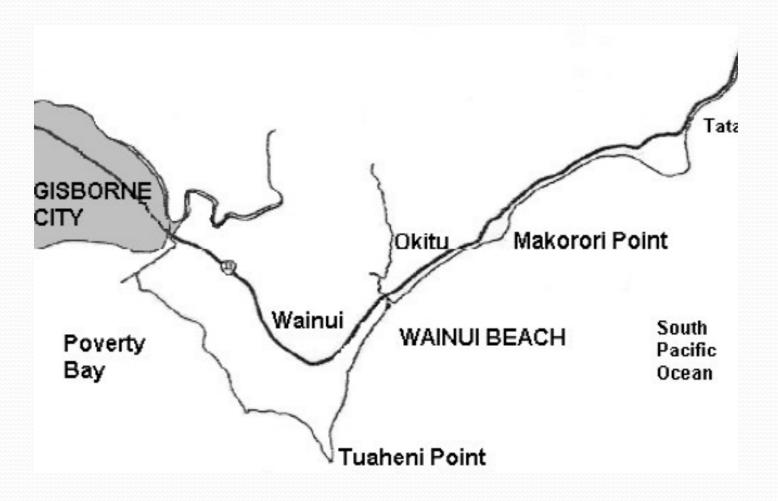


Location



Wainui Beach - Tairawhiti East Coast north of Gisborne city

May 2012



Wainui Beach Coast Care Group

Photo: Gray Clapham 2010



Middle section of Wainui Beach

Photo: Gray Clapham 2008/09



Wainui 'erosion' = storm generated cut & fill Sand moves to offshore bars & back again





Wainui Coast Care Group Purposes

Restore & protect dunes eco-systems

Educate and raise awareness

Key actions, 2008 to 2014

Education

Ten Year Plan

Planting & 'fences'

Calibrated signage & photo records

Community collaborations

Wainui Beach Management Strategy updated

NZ Dunes Restoration Trust

Education

Laws of the Coast Wainui Beach Dunes Restoration

Five Laws of the Coast

Dr Amber Dunn

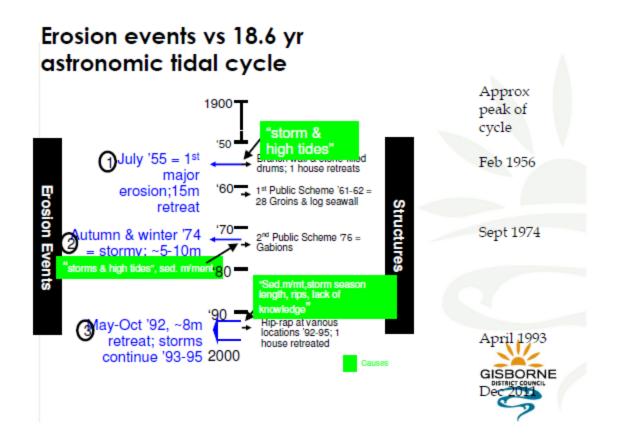
1 There are no parts, only WHOLES

2 The nature of SAND is to MOVE

3 MOVING SAND = natural PROTECTION

4 Dunes are STORE of sand for the beach

5 History of coast is of STORMS and RECOVERY



Wainui Coast Care Ten Year Plan

Gisborne District Council Ten Year Plan 2012/22

Wainui Coast Care Group Plan, 2011/21

Aims

To achieve dunes stabilisation and accretion along the length of the beach

To address stream mouth and storm water erosion

Approach

Holistic and collaborative

Beach divided into kaitiaki strips

Progressively extending each year north and south from the Hamanatua Stream, to at least Schools Access

Work Plan

Planting

Native sand binding grasses on front dunes

Native flaxes and shrubs on back dunes

Protection & education

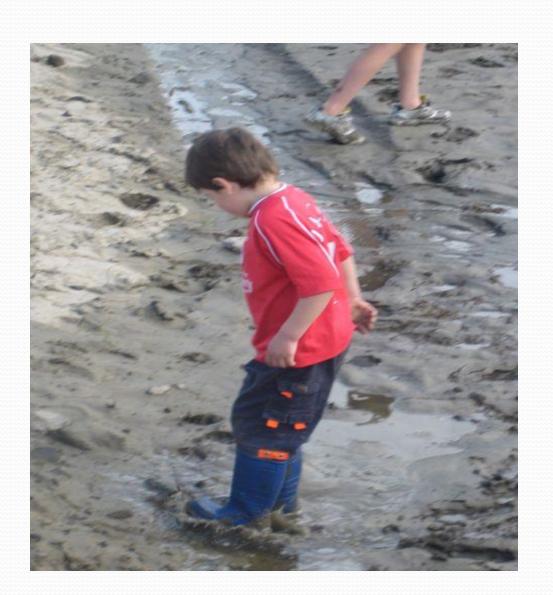
Minimising damage to the plants by human traffic with

- Fencing and flax barriers
- Improved access 'channels'
- Signage , brochures , education.

Introduce Sand scraping

Create more front dunes by taking sand up to where is little/none, then plant, protect, weed.

Getting stuck in....



Successful pilot plantings

South of Hamanatua Stream

Steep Lysnar Reserve Dunes Face

Looking south from Hamanatua stream

Photo: Gray Clapham 2010



2010/11 School & Group planting with Wayne O'Keefe

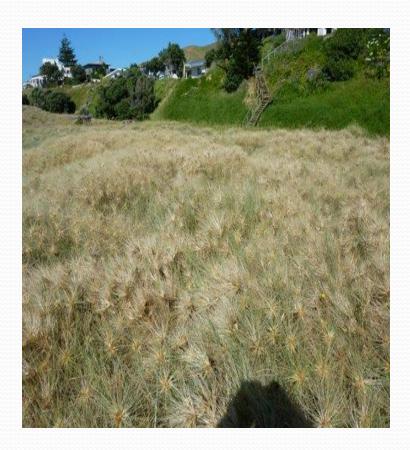




South of Hamanatua stream

→ Two + years later 2012/13

Four+ years later, Mar 2015





Spinifex and pingao + urea + signage = progress in restoring natural shape of dune



Calibrated Signage

Tony Ogle & John Logan

Every 200 metres

2 metres out from pre-existing plants

1 metre aboveexisting sand level



January 2012 after 14 months

February 2013 after 27 months

(By Oct 2013 sign almost hidden)





Spinifex 'garden'

Loves urea, applied 2 x a year

Abundant flower seed heads

Planted 2010/11 Photo Feb 2013



Successful steep dunes faces

Lysnar Reserve damaged dunes faces

First steep-face planting, Sept 2011



Wainui Lysnar reserve

vulnerable toe of dunes

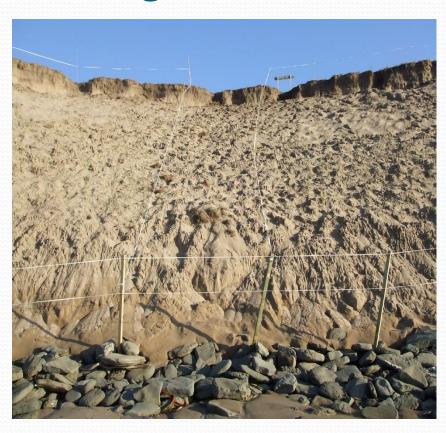
Photo: Gray Clapham 2010



Spinifex & pingao planting

August 2011

February 2013





2014 (+3yrs)









Signage – Peggy Ericson Tape & bamboo 'fence' - DoC



Storm water protection

Schools Access plantings,

> address new subdivision effects

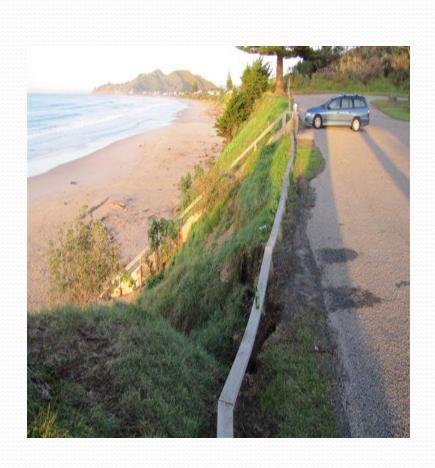
Pines car park run off

> address drainage issues

Planting new storm water control after a subdivision increased runoff onto beach



Pines car park storm water damage

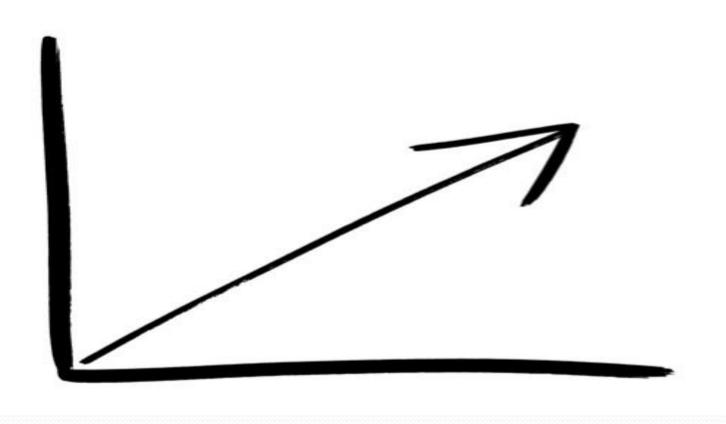




Achievements 2009/15

- New Wainui Beach Management
 Strategy dunes restoration prominent
- Ten Year Plan implemented
- Community collaborations increasing
- Spinifex, pingao 6,500+ planted
- Ecosystem protection increasing
- Learnt heaps

Where to from here?



Implementing Wainui Beach Management Strategy

Increased dunes restoration
Sand scraping & planting up banks
Addressing

Stream mouth storm water effects
Human foot traffic on dunes faces
Fencing (lack of) quality & aesthetics
Increasing Wainui School involvement

Sand scraping & planting further up banks....



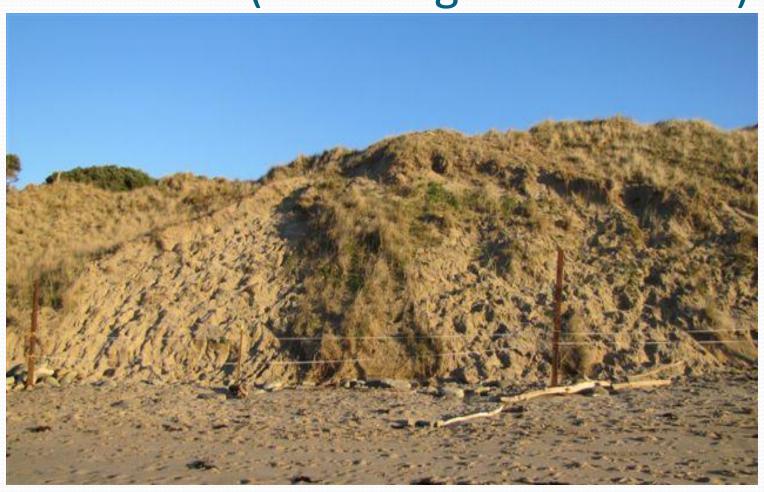




Deter use of quick tracks to beach, reinstate steps, improve 'fencing'



Keeping people off bare faces (including local clubs...)



Help nature to gain as much dunes as possible before

.... the next extreme cycle of storm cut erosion every approx 18.6yrs (2026/30)

...and climate change sea level rises take effect - unless people and politicians act.....



With thanks to Gray Clapham, Wainui Coast Care Group & Wainui School (for photos), Dr Amber Dunn (for slide)



Gisborne District Council

(plants, fertiliser, fencing, support to attend this Hui)

Department of Conservation (spades, fencing, people)

Dunes Trust (expertise, resources, inspiration)

