

CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE AGENDA

WEDNESDAY 2 NOVEMBER 2011

AT 2.45PM

**IN THE HEATHCOTE ROOM,
THE CASHMERE CLUB,
88 HUNTERS TERRACE**

Committee: Councillor Sally Buck, Christchurch City Council
Deidre Francis, Community Representative
Ian Fox, Community Representative
Jon Harding, Community Representative
Debra Hasson, Selwyn District Council
Craig Pauling, Rununga Te Taumutu
Arapata Reuben, Te Runanga o Ngai Tuahuriri
Herena Stone, Te Hapu o Ngati Wheke/Rapaki
Hugh Thorpe, Community Representative
Robert Wynn-Williams, Community Representative
Commissioner Rex Williams, Environment Canterbury
Ann Winstanley, Community Representative

Principal Adviser
Peter Kingsbury
Tel: 027 599 4615
Christchurch City Council

Zone Facilitator
Matthew Ross
Tel:
Environment Canterbury

Committee Adviser
Liz Blayney
Tel: 941 6377
Christchurch City Council

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1. CONFIRMATION OF APPOINTMENT OF INTERIM CHAIRPERSON

The Committee are asked to confirm the appointment of Environment Canterbury Commissioner Rex Williams as interim Chairperson.

2. APOLOGIES

3. DEPUTATIONS BY APPOINTMENT

4. IDENTIFICATION OF URGENT ITEMS

5. IDENTIFICATION OF ANY GENERAL PUBLIC CONTRIBUTIONS

6. WORKING TOGETHER: DEVELOPING WAYS OF WORKING

2.50PM

7. WORKING TOGETHER: SHARING INITIAL IDEAS

3.20PM

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8. UPDATE ON WORK PROGRAMME

4.10PM

Matthew Ross, Zone Committee Facilitator will update the Committee on the upcoming work programme (refer **Attachment 1**).

CHRISTCHURCH-WEST MELTON ZONE COMMITTEE DRAFT WORK PROGRAMME, YEAR 1

Date / Event	Content
07/08 October 2011 Launch, Orientation, Fieldtrip 1	<p><i>Working together</i></p> <ul style="list-style-type: none"> • Getting to know each other exercise: stones • Sharing our aspirations: initial conversations and water interests • Orientation overview, Terms of Reference, Operating Philosophy, Agree meeting logistics <p><i>Introducing possible water management topics</i></p> <ul style="list-style-type: none"> • Fieldtrip introducing: geography of zone, intertidal and freshwater areas, earthquake impacts on ecology, Tāngata whenua values, water based recreation, general water quality, land use pressures, rural and urban areas, groundwater, groundwater protection zones, drinking water
02 November 2011 Public meeting 1	<p>Working together</p> <ul style="list-style-type: none"> • Workshop to share initial ideas on issues, challenges, opportunities for the Zone • Workshop to agree our shared working style/ethos • Workshop to agree logistics of meeting including days, times, venue <p>Water management topics</p> <ul style="list-style-type: none"> • State of the water resource - overview 1
December 2011 Public meeting 2	<p>Working together</p> <ul style="list-style-type: none"> • Group working exercise • Chair, Deputy Chair, Regional Rep agreed <p>Water management topics</p> <ul style="list-style-type: none"> • State of the water resource - overview 2 • Overview of CCC, SDC, ECan, CERA water related plans • Local Rūnanga and water management
January 2012 Fieldtrip 2	<p><i>Working together</i></p> <ul style="list-style-type: none"> • Informal relationship building <p><i>Water management topics</i></p> <ul style="list-style-type: none"> • Biodiversity overview and possible Immediate Steps Priorities, Tāngata whenua values in-situ, Drinking water supply well, Christchurch Waste water Treatment Plant
February 2012 Public meeting 3	<p>Working together</p> <ul style="list-style-type: none"> • Group working exercise <p>Water management topics</p> <ul style="list-style-type: none"> • Biodiversity and CWMS tools including Immediate Steps • Possible Immediate Steps Priority Areas • Drinking water overview • Waste water management overview
March 2012 Public meeting 4	<p>Working together</p> <ul style="list-style-type: none"> • Stakeholder exercise: Who, what, when? <p>Water management topics</p> <ul style="list-style-type: none"> • Immediate Steps Projects • Recreation in the Zone • Water and the urban economy • Water and the rural economy
March 2012 Fieldtrip 3	

Building Knowledge Base

Building Relationship Capital

April 2012 Public meeting 5	<i>Develop Water Management Priority Outcomes Working / task & finish groups setup</i>
May 2012 Public meeting 6	<i>Develop Pathways To Implementing Outcomes Working / task & finish groups progress</i>
June 2012 Public meeting 7	<i>Consultation on draft Priority Outcomes Liaise with Waimakariri Zone Committee Liaise with Selwyn-Waihora Zone Committee Liaise with Banks Peninsula Zone Committee Liaise with Regional Committee</i>
July 2012 Public meeting 8	<i>Agree consultation draft ZIP</i>
August 2012 Public meeting 9	<i>Consultation on draft ZIP</i>
September 2012 Public meeting 10	<i>Consider feedback and Update draft ZIP ZIP version 1?</i>
October 2012 Public meeting 11	<i>ZIP version 1?</i>

**Developing
Priorities**

**Developing
Pathways**

Sharing & Listening

Sharing & Listening

**Developing a Zone Implementation
Programme**

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9. WORKING TOGETHER: MEETING LOGISTICS

4.25PM

The Committee will discuss meeting logistics, and will be asked to agree on the time, date and venue of future Committee meetings.

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10. STATE OF THE WATER RESOURCE – OVERVIEW 1

4.50PM

The Committee will receive a presentation from Tim Davie, Environment Canterbury, regarding the State of the Water Resource (refer **Attachment 1**)

Christchurch – West Melton zone: overview on state of the water resources

*Tim Davie, Michele Stevenson, Lesley Bolton-Ritchie
Investigations & monitoring group*



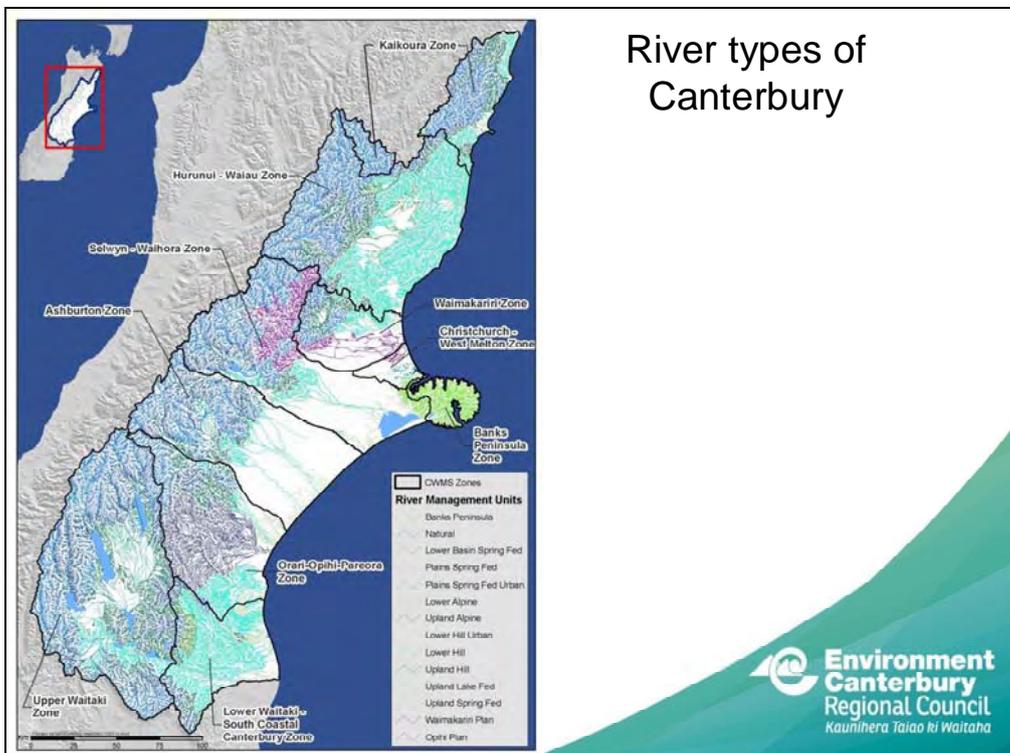
Outline

- Types of monitoring carried out
- Types of water bodies
 - Rivers
 - Groundwater
- Hydrological characteristics
- Water quality & ecosystem health
 - Current state
 - Trends
- Avon-Heathcote Ihutai estuary
 - Water quality & ecosystem health
 - Earthquake impacts



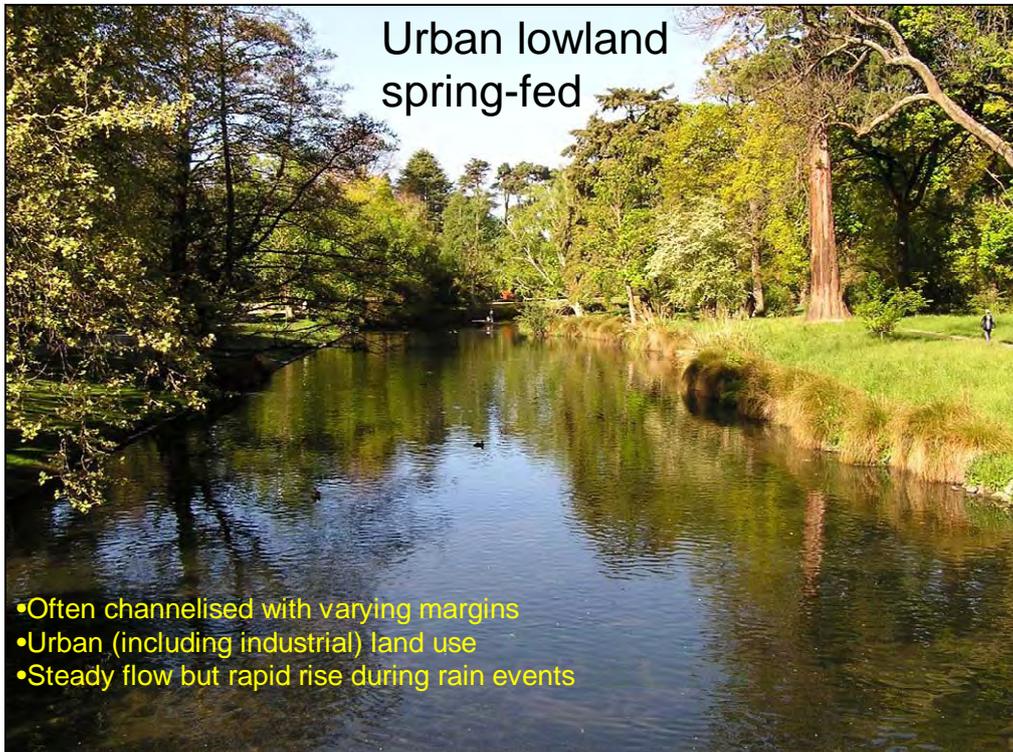
Types of monitoring

- Consent compliance
- State of the environment
 - Long term
 - Water level & flow; rainfall
 - Water quality
 - Ecosystem health
- Contact recreation
 - Microbiology in fresh & coastal waters used for swimming etc.
- Investigations
 - One over a short period of time off studies in an area



Types of water bodies in the zone

- Lowland spring-fed urban
 - Avon, Styx
- Banks Peninsula volcanics
 - Cashmere Stream
 - Partly the Heathcote
- Alpine river
 - Waimakariri
- Groundwater



Banks Peninsula Volcanics

- Moderate to steep slopes
- Spring and rain fed
- Prone to sediment from loess on hills

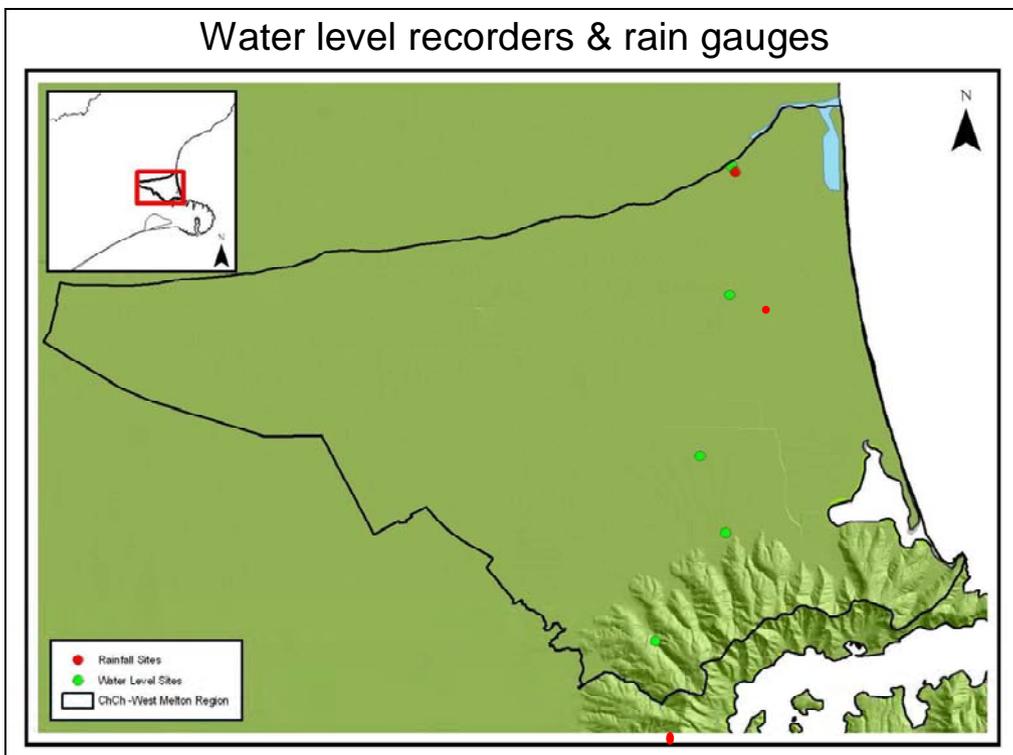
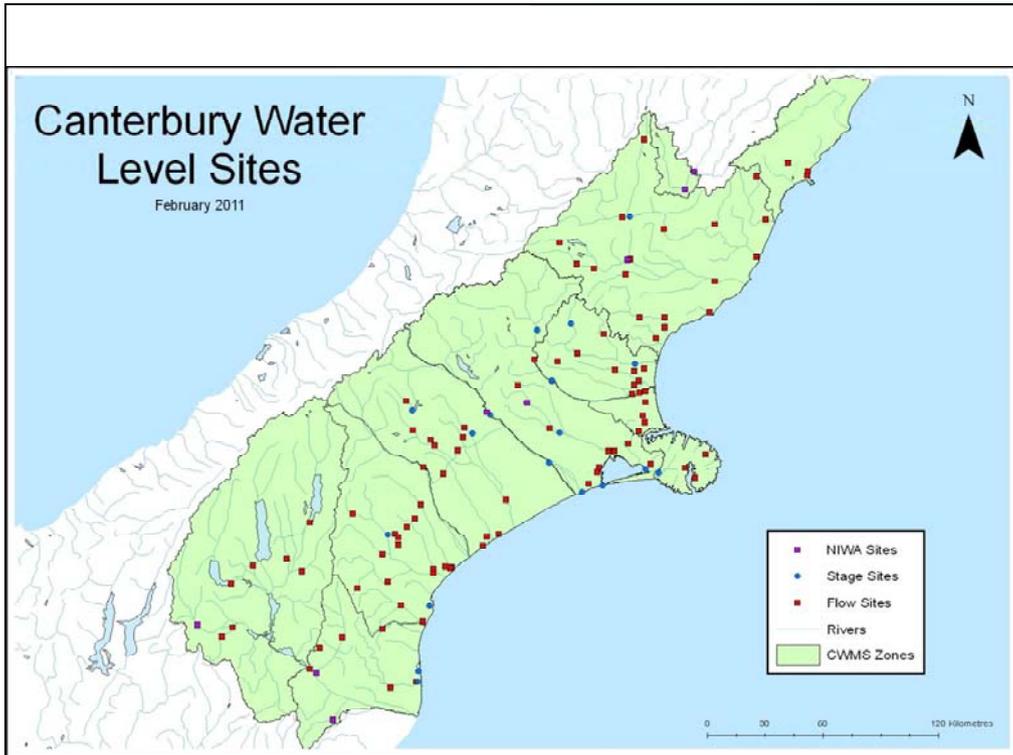


Alpine

Lower reaches

- Braided, wide margins
- Stopbanks
- Very large floods
- Tributary inputs – some from high intensity land use
- Source of groundwater recharge



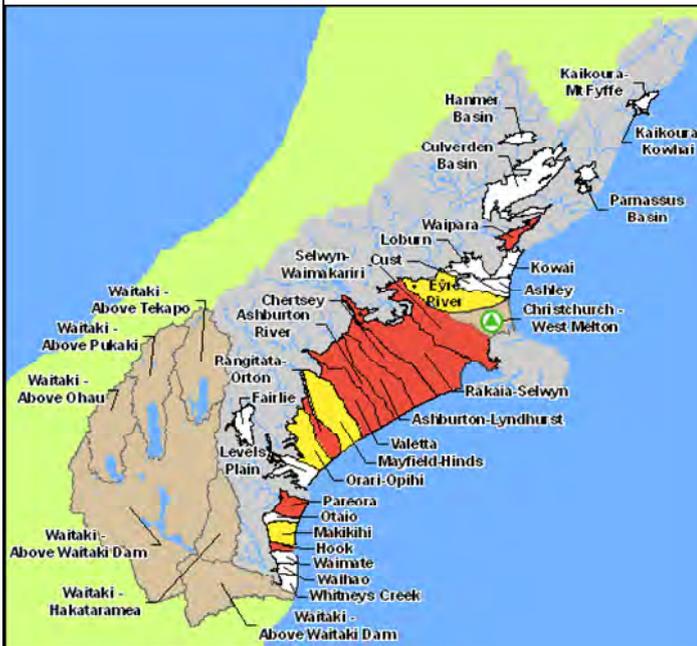


River flow statistics (m³/s)

Name	Start	Mean	7dMALF	Mean annual flood
Waimakariri @ OHB	1958	122	40	1495
Avon @ Gloucester St	1958	1.9	1.4	16.9
Heathcote @ Buxton Tce	1980	1.0	0.5	15.9

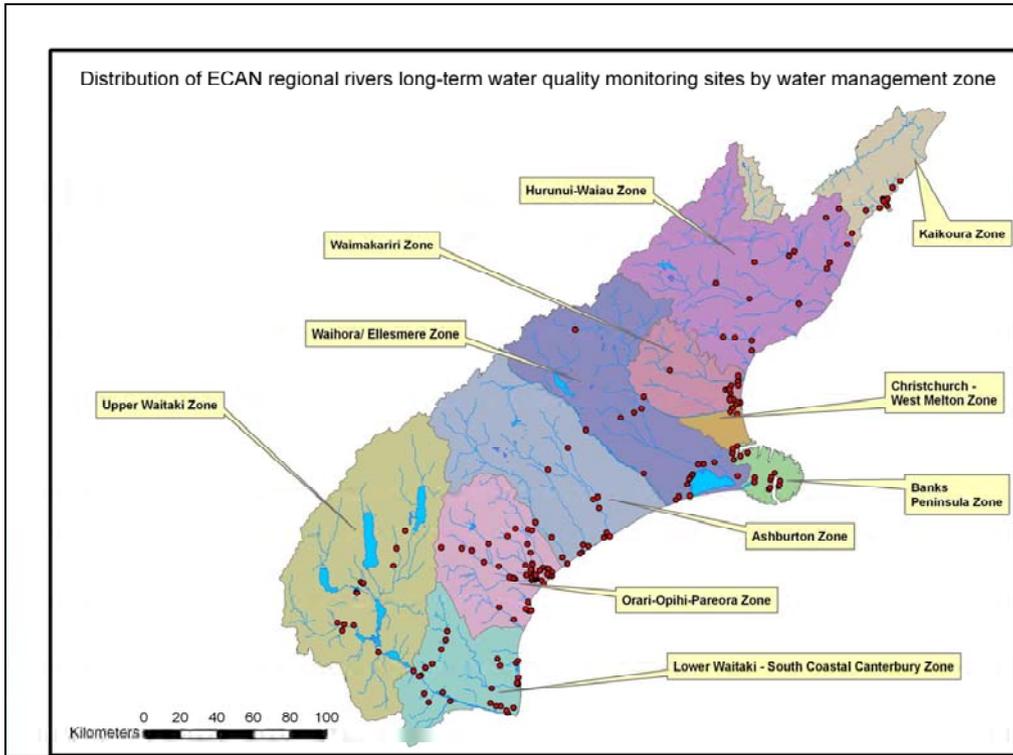


Groundwater allocation

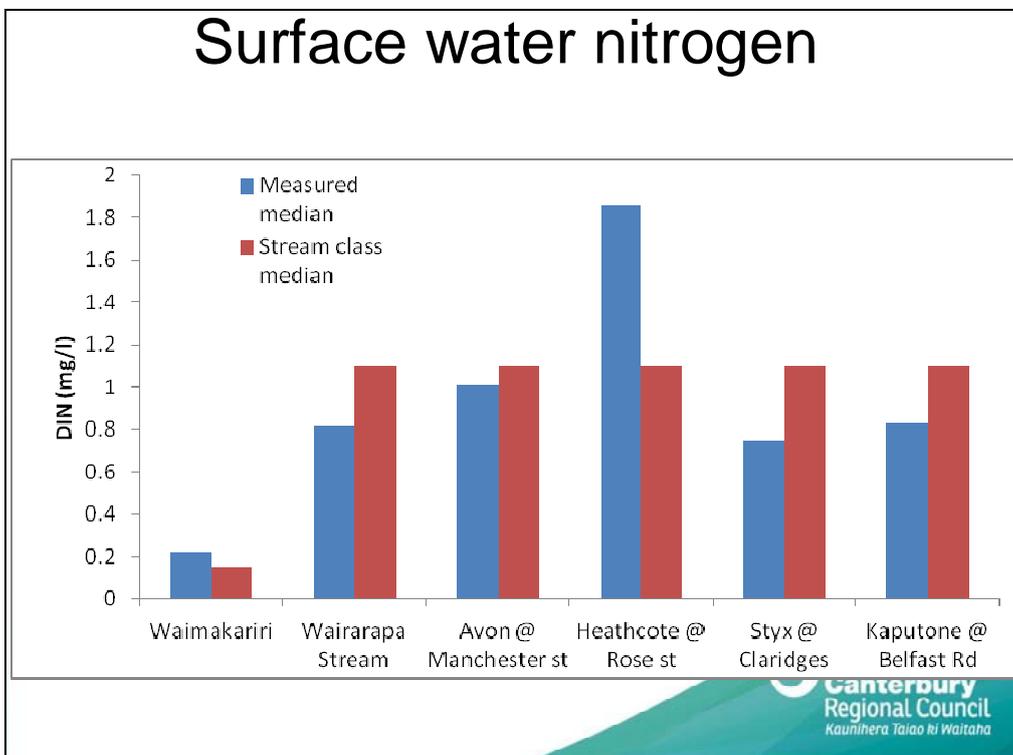


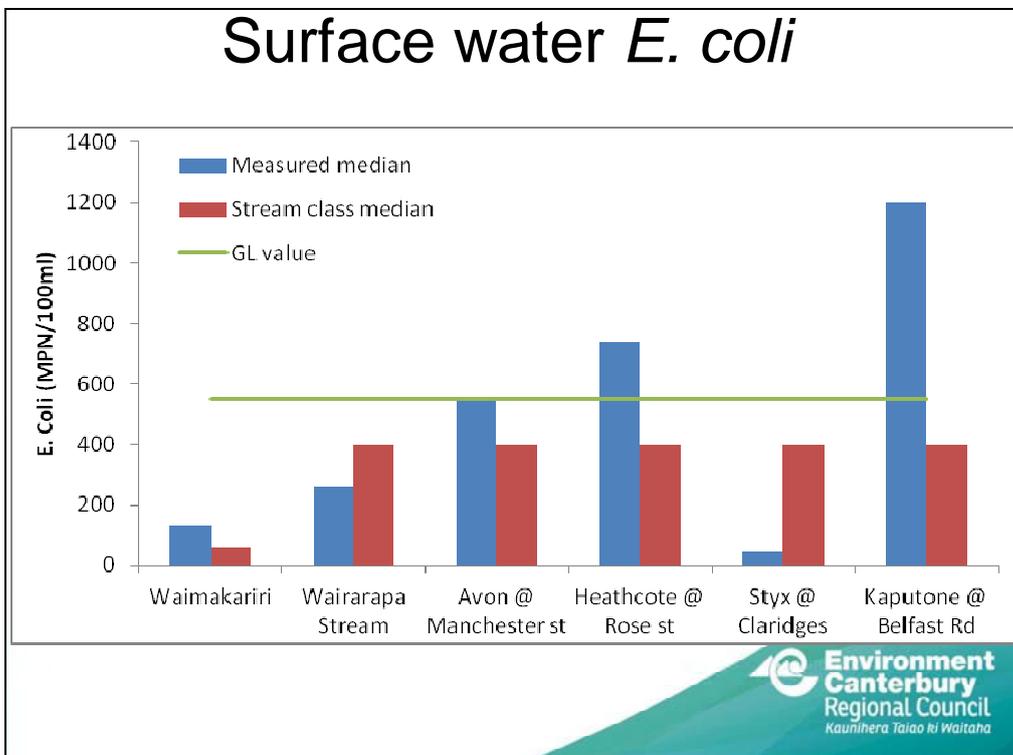
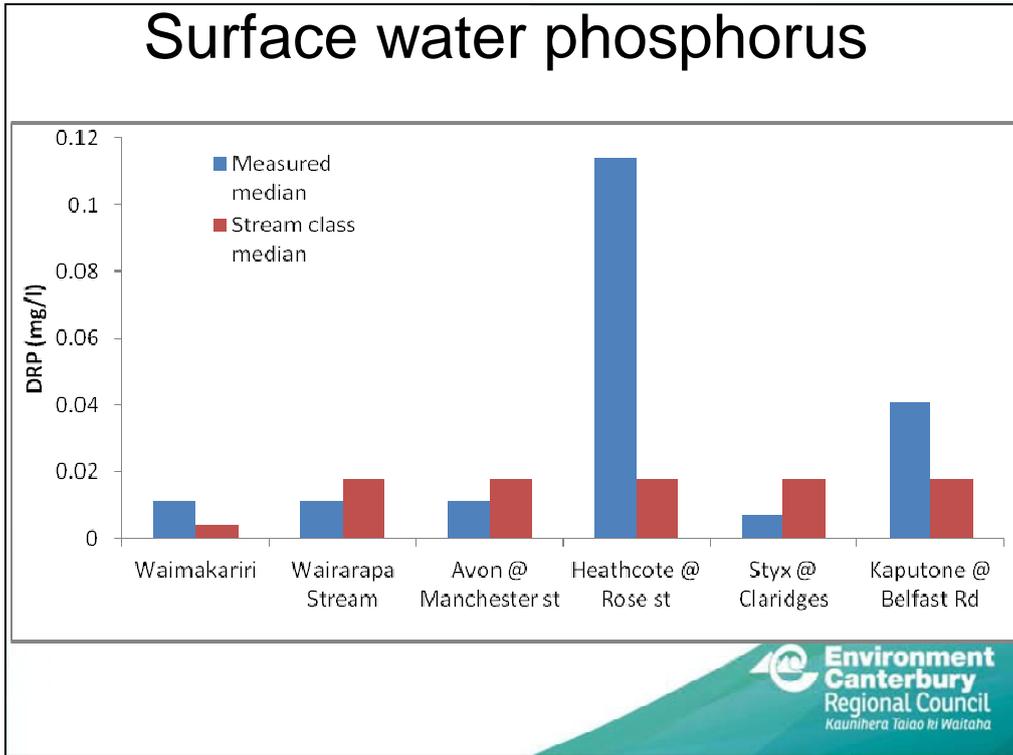
- Christchurch West Melton – Special zone

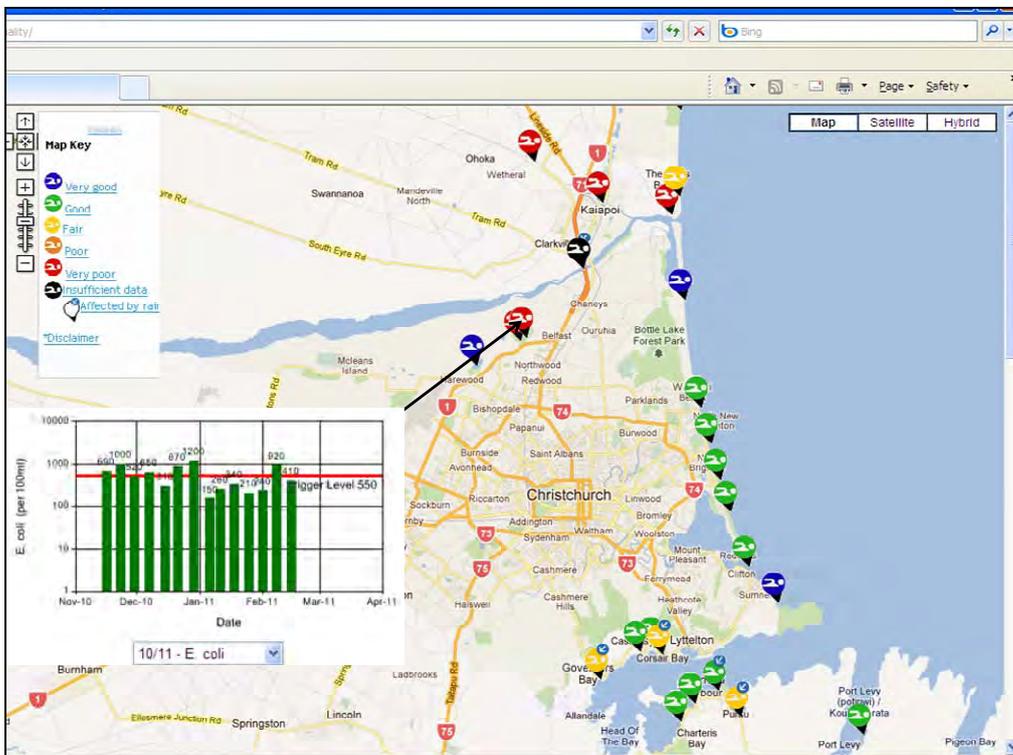
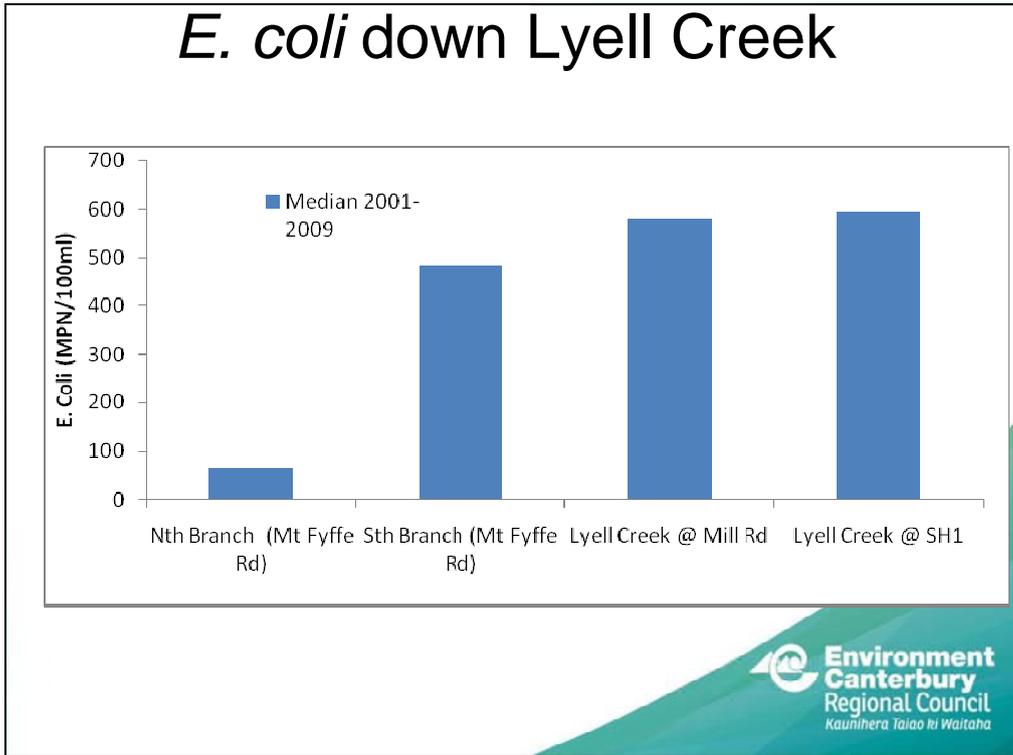




Surface water nitrogen

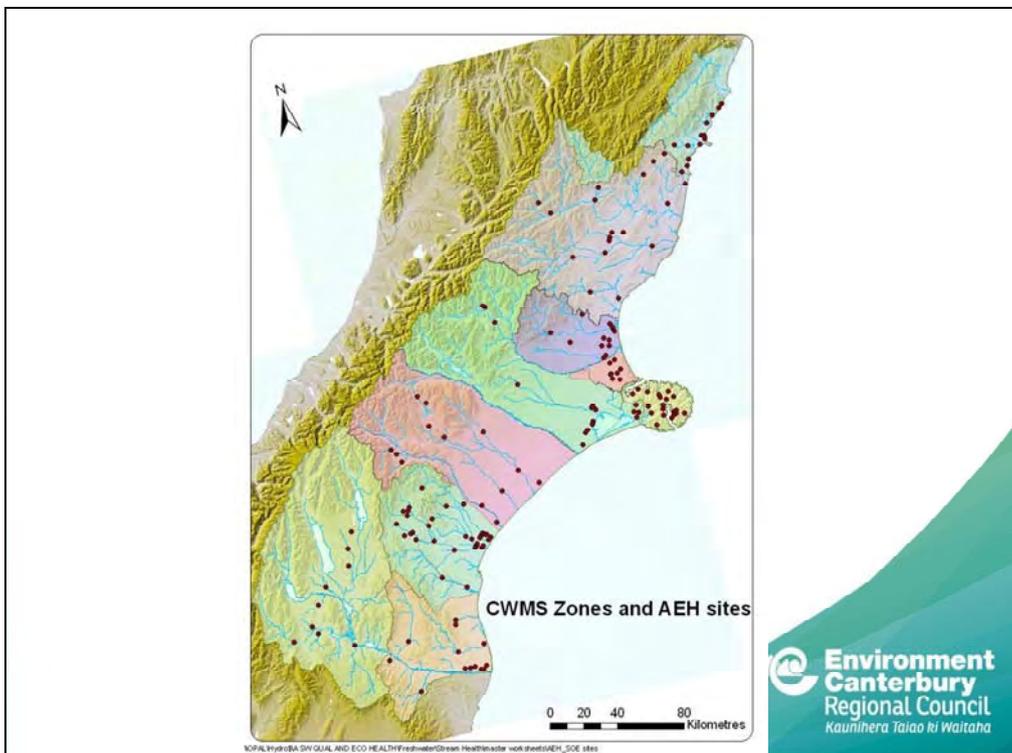


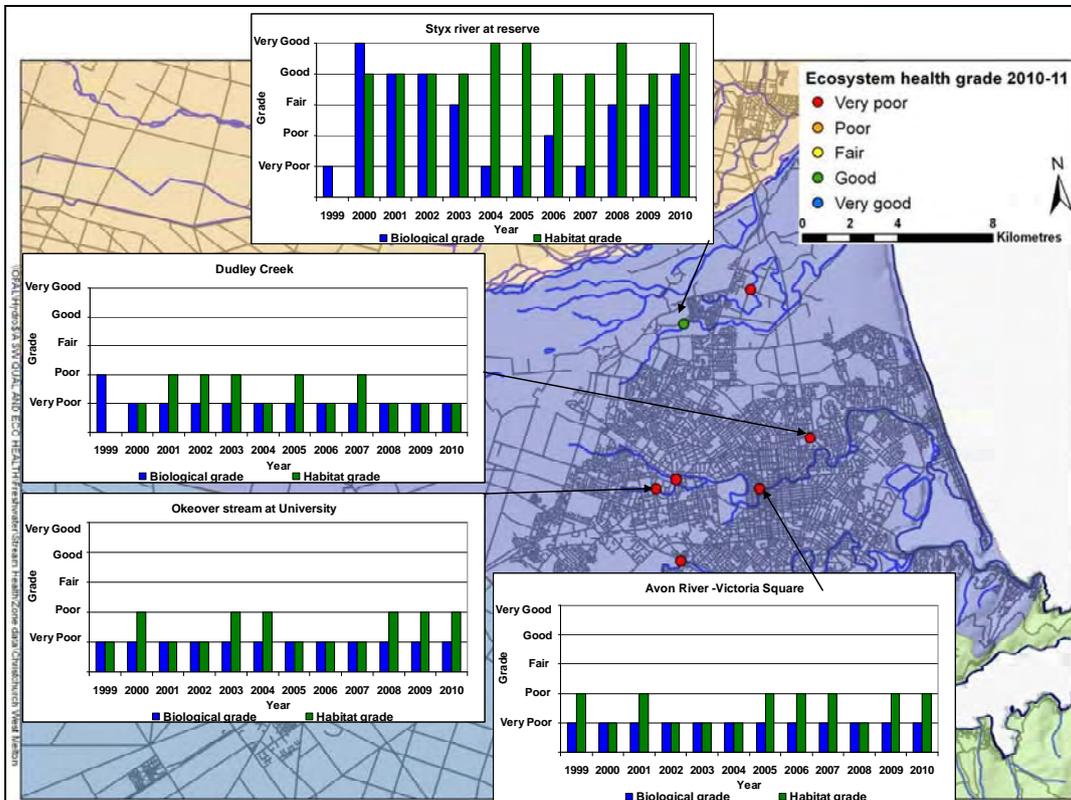
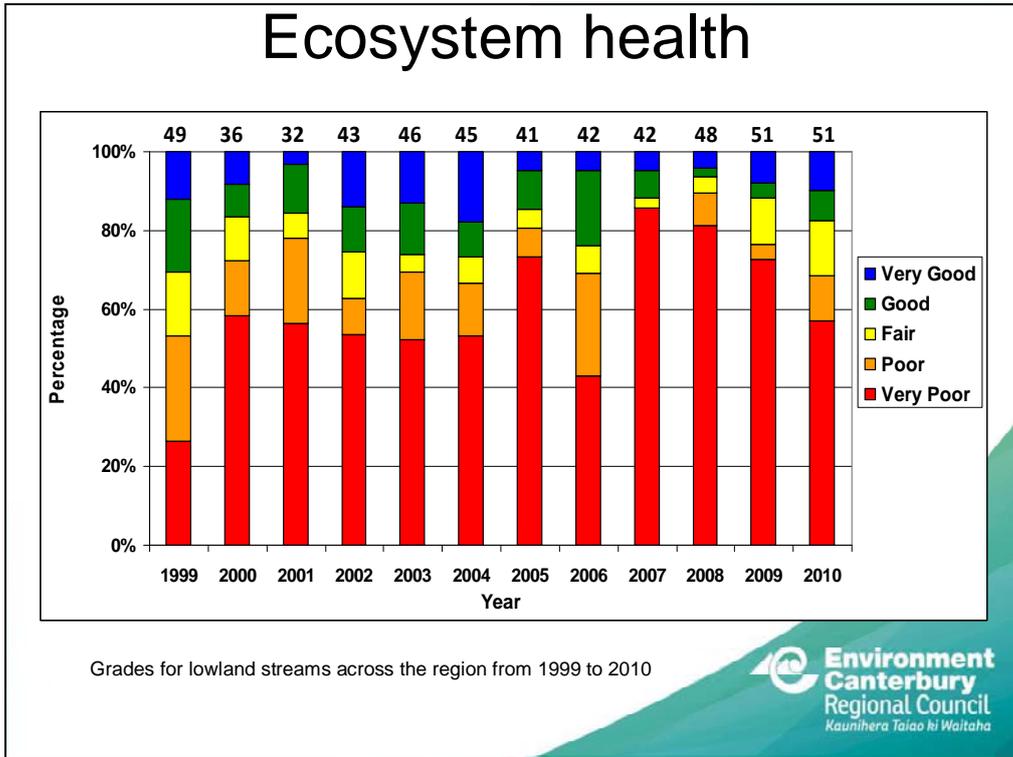




Ecosystem health

- Using invertebrates as indicators of stream health
 - Abundance and diversity
- Habitat and water quality are both important





Estuary water quality

- Slide still being prepared 21/10/11

Estuary ecosystem health

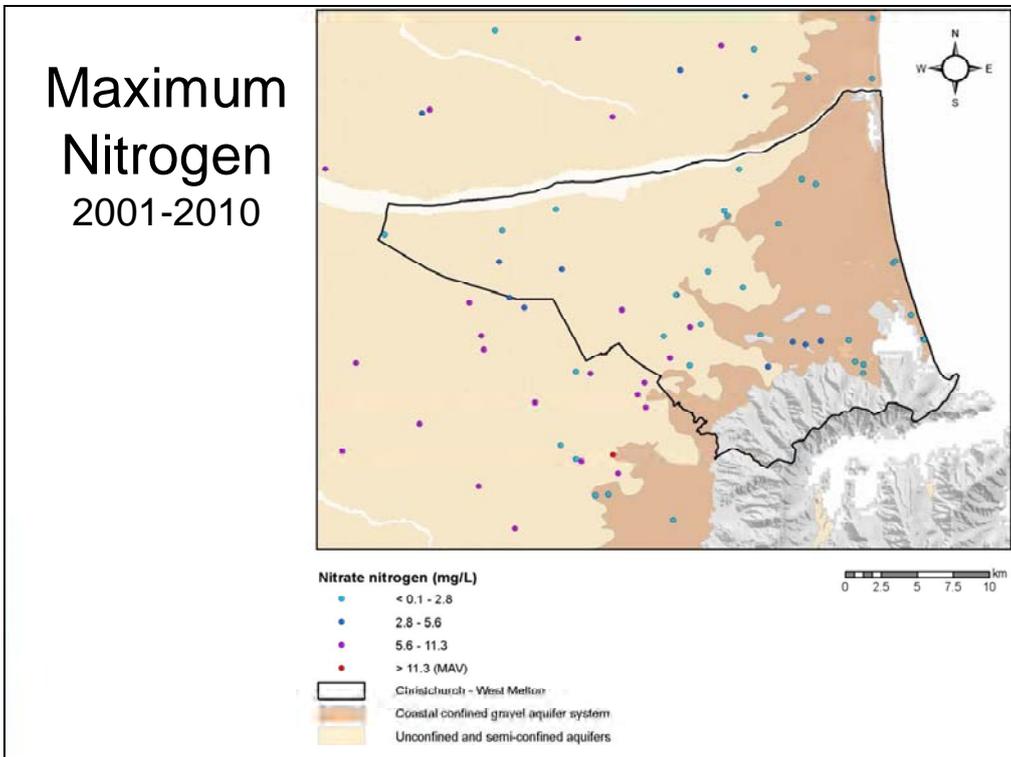
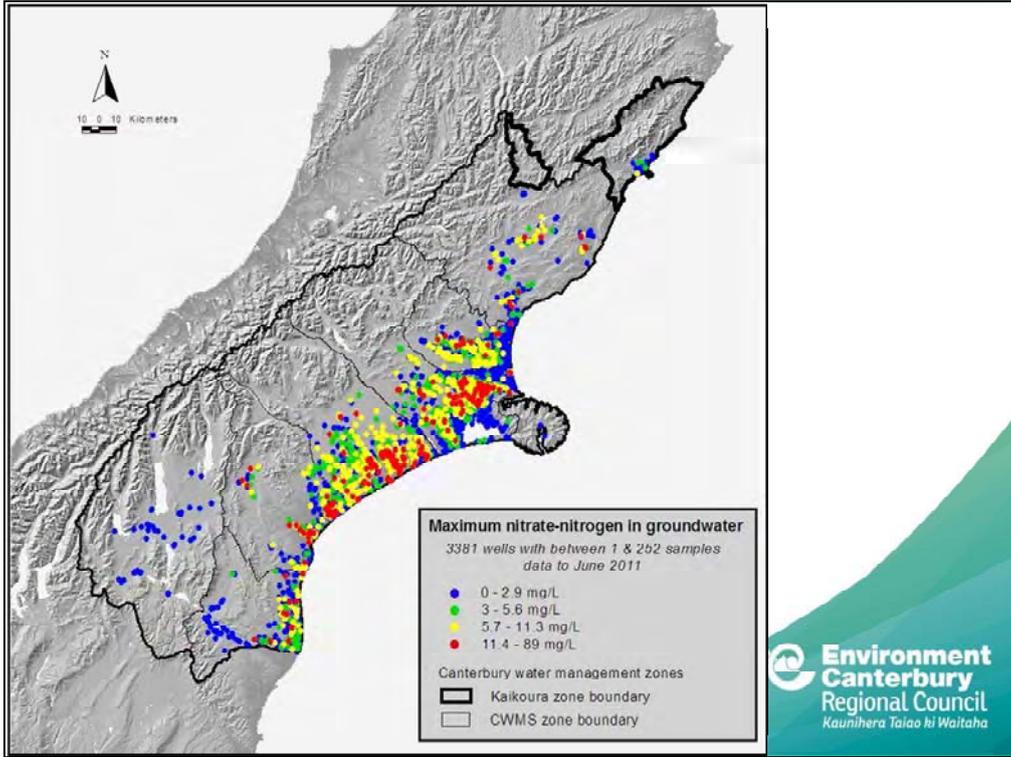
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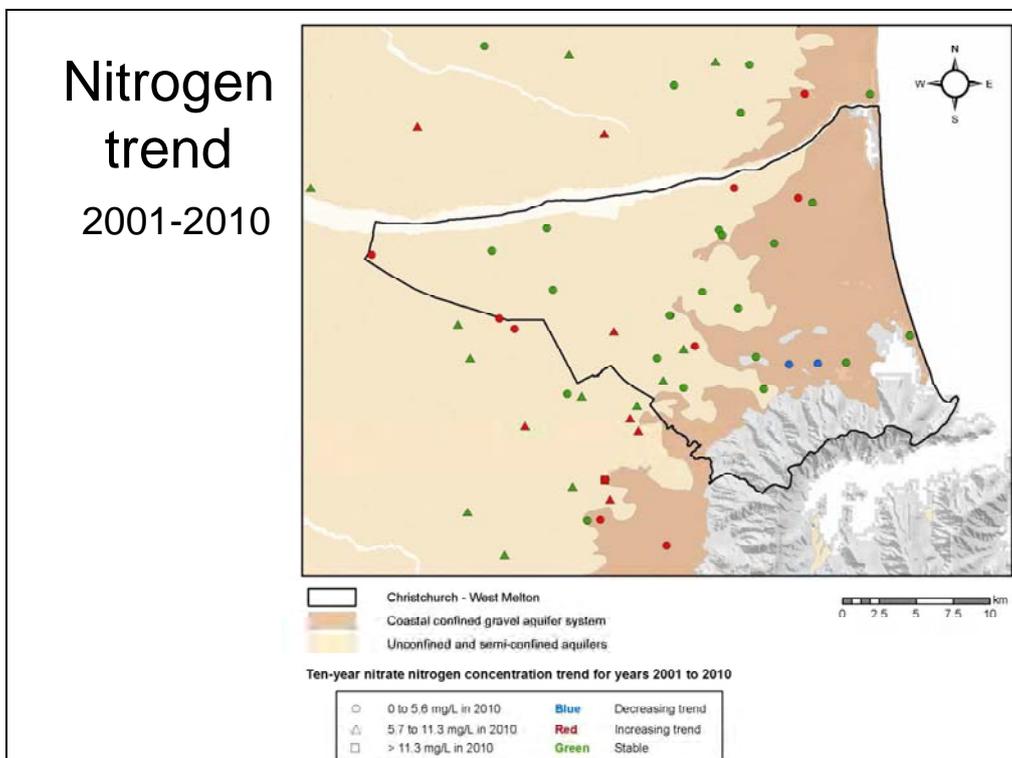
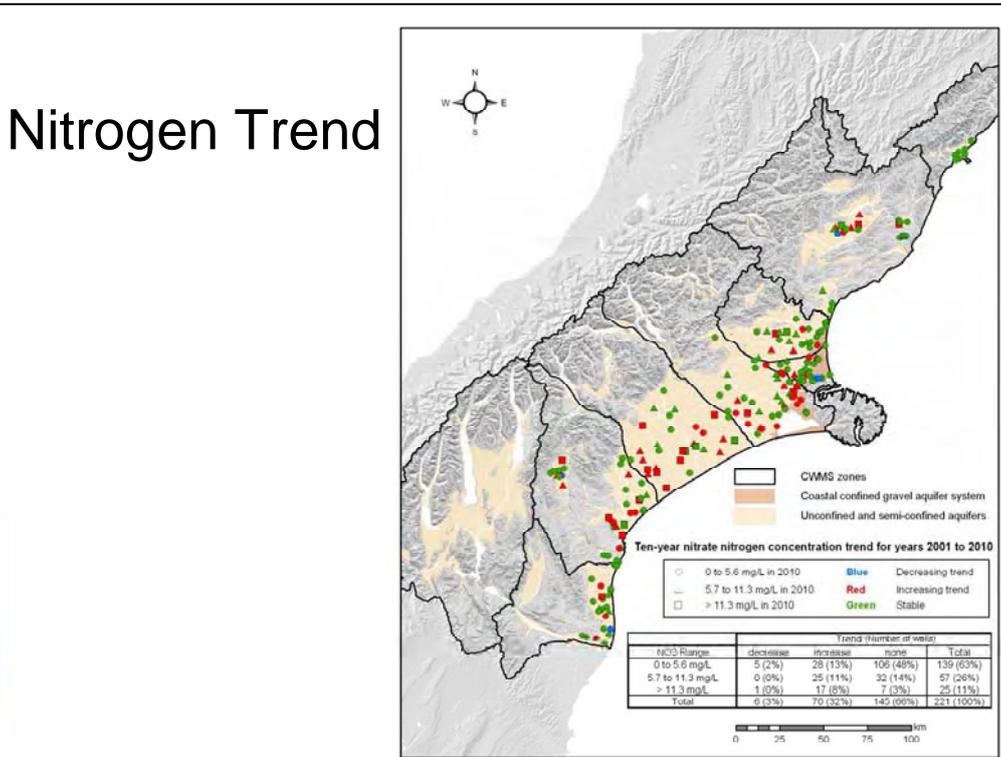
Estuary sediment quality

- Slide still being prepared 21/10/11

Estuary post earthquake

- Slide still being prepared 21/10/11





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11. REGIONAL COMMITTEE UPDATE

5.30PM

PURPOSE OF REPORT

1. To brief the Committee on the work of the Regional Water Management Committee and present key areas of interest for the Committees consideration.

EXECUTIVE SUMMARY

2. Regional Committee met on 11 October 2011 for their 11th meeting. They are currently working on the consultation draft version of the Regional Implementation Programme. Four regional priority issues have been identified:
 - Kaitiakitanga
 - Ecosystems and Biodiversity
 - Land Use and Water Quality
 - Infrastructure
3. In addition, the Regional Committee is considering the regionally significant features in each Zone and making recommendations from a regional perspective in the RIP. They have previously discussed Hurunui Waiou and will consider other Zones when draft Zone Implementation Programmes are available to help inform their thinking. The Regional Committee is currently in the process of agreeing content in relation to Ashburton, Selwyn-Waiou, Waimakariri Zones.
4. From initial discussions on Selwyn-Waiou and Waimakariri Zones, key points of interest for the Christchurch-West Melton Zone Committee are:
 - (a) A cross-cutting list of regionally significant features for Kaitiakitanga has been developed and will be referenced in each zone, with additional features identified as necessary
 - (b) Draft regionally significant features in Waimakariri and Selwyn-Waiou Zones discussed in relation to CWMS Target Areas:
 - (i) Waimakariri River:
 - Ecosystem Health and Biodiversity
 - Natural Character of Braided Rivers
 - Recreation and Amenity
 - (ii) Effects of managing the lower Waimakariri to reduce flooding:
 - Ecosystem Health and Biodiversity
 - Natural Character of Braided Rivers
 - Recreation and Amenity
 - (iii) Groundwater connection between Waimakariri River and aquifers in Christchurch-West Melton Zone that are important for spring fed streams and drinking water supply:
 - Ecosystem Health and Biodiversity
 - Drinking Water Standards
 - (iv) Waimakariri River Plan in relation to Environmental Limits;
 - (v) Economic value of Waimakariri gravel resource in relation to Indicators of Regional and National Economies.

11 Cont'd

5. Christchurch-West Melton Zone Committee will have the opportunity to discuss and comment on the draft Regional Implementation Programme before version 1 is finalised in March 2012. It is not anticipated that version 1 will included Zone specific content on Christchurch-West Melton Zone.
6. The draft Waimakariri Implementation Programme (ZIP) was released for public consultation in September 2011 and will be finalised in November 2011.
7. The draft Selwyn-Waihora Implementation Programme (ZIP) was released for public consultation in October 2011 and will be finalised in December 2011.
8. The draft Ashburton Implementation Programme (ZIP) was released for public consultation in September 2011 and will be finalised in November 2011.
9. Banks Peninsula Zone Committee held their first public meeting on 18 October 2011.

STAFF RECOMMENDATION

The Committee is asked to receive the information.