

**CHRISTCHURCH WEST MELTON
WATER MANAGEMENT ZONE COMMITTEE**

AGENDA

THURSDAY 27 SEPTEMBER 2012

AT 6PM

**IN THE BOARDROOM
FENDALTON SERVICE CENTRE
CORNER JEFFREYS AND CLYDE ROADS.**

PLEASE USE CAR PARK DIRECTLY IN FRONT OF SERVICE CENTRE.

Committee: Ian Fox, Community Representative (Chairperson)
Councillor Sally Buck, Christchurch City Council
Deidre Francis, Community Representative (Deputy Chairperson)
Jon Harding, Community Representative
Councillor Debra Hasson, Selwyn District Council
Arapata Reuben, Tūāhuriri Rūnanga
Yvette Couch-Lewis, Rāpaki Rūnanga
Hugh Thorpe, Community Representative
Robert Wynn-Williams, Community Representative
Ann Winstanley, Community Representative
Commissioner Rex Williams, Environment Canterbury

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1. APOLOGIES

2. CONFIRMATION OF MINUTES – 23 AUGUST 2012

The minutes of the Committee meeting held on 23 August 2012 are attached.

The Committee is asked to approve these minutes as a true and accurate record of the meeting.

3. DEPUTATIONS BY APPOINTMENT

4. IDENTIFICATION OF URGENT ITEMS

5. IDENTIFICATION OF ANY GENERAL PUBLIC CONTRIBUTIONS

**CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE
THURSDAY 23 AUGUST 2012**

**A meeting of the Christchurch West Melton Water Management Zone Committee was held in
The Boardroom, Fendalton Service Centre, on Thursday 23 August 2012 at 6pm**

PRESENT: Ian Fox, Community Representative (Chairperson)
Deidre Francis, Community Representative (Deputy Chairperson)
Jon Harding, Community Representative
Councillor Debra Hasson, Selwyn District Council
Hugh Thorpe, Community Representative
Robert Wynn-Williams, Community Representative
Ann Winstanley, Community Representative

APOLOGIES: Apologies for absences was received and accepted from Councillor Sally Buck, Commissioner Rex Williams, Yvette Couch Lewis and Arapata Reuben.

1. CONFIRMATION OF MINUTES – 25 JULY 2012

It was **decided** that the minutes of 25 July 2012 be approved as a true and accurate record of the meeting.

2. DEPUTATIONS BY APPOINTMENT

Nil.

3. IDENTIFICATION OF URGENT ITEMS

Nil.

4. IDENTIFICATION OF GENERAL PUBLIC CONTRIBUTIONS

Nil.

5. REGIONAL COMMITTEE UPDATE

The Committee was briefed by John Harding on items of relevance to the zone, arising from the latest meeting of the Regional Committee of the Canterbury Water Management Strategy.

A priority area of interest to the Zone Committee was nitrate high spots, and the Committee requested to consider the information on this matter that had been on the agenda for the Regional Committee.

6. UPDATE ON ENVIRONMENT CANTERBURY POLLUTION PREVENTION WORK PROGRAMME

The Committee received a presentation from Paul Gofton (Environment Canterbury) on Environment Canterbury's Pollution Prevention Work Programme (refer **attached**).

Key issues considered included:

- involvement of SKIRT in directing business services in relation to pollution prevention
- self regulation versus compliance monitoring
- stormwater facilities - retrofitting old subdivisions and the different issues with this compared to a new subdivision
- input to the draft ZIP – how the Committee can support the ongoing work of this unit.

7. WETLANDS IN CANTERBURY

The Committee was briefed by Tamsin Page and Philip Grove (both of Environment Canterbury), on wetlands in the context of the Canterbury Water Management Strategy (CWMS).

Key issues considered included:

- the incorporation of cultural significance, as well as ecological significance into the database
- how significant wetlands are defined
- landowner's awareness and the possibility on ongoing education programme alongside the farm management plans
- additional effort in the zone to identify and categorise wetlands, as smaller wetlands are not picked up.

8. INDIGENOUS BIODIVERSITY HABITAT ANALYSIS

The Committee reviewed the working draft ZIP content report from Mimouk Hannan (Environment Canterbury) related to indigenous biodiversity, on the basis of additional analysis provided by an expert panel on indigenous biodiversity habitats.

The Committee noted the information contained within the report, and agreed to hold a workshop on this subject. It was also noted that a map location would be useful.

9. WORKING DRAFT ZIP (REVISED CONTENT)

The Committee received a verbal update on the revised content for the working draft ZIP from Zone Facilitator, Matthew Ross.

The Committee noted the need for adequate time to work on the ZIP prior to the public meeting.

10. WORK PROGRAMME TO ZIP

The Committee noted the updated work programme to producing the Zone Implementation Programme (ZIP).

The Committee agreed to cancel the workshop scheduled for 30 August, and hold workshops on 12 and 13 September with the same content to ensure all of the Committee have an opportunity to attend.

11. WAIMAKARIRI RIVER AND CHRISTCHURCH AQUIFER INTERACTIONS

The Committee received a presentation from Paul White of GNS Taupo, regarding his knowledge of the interactions between the Waimakariri River and the Christchurch Aquifers / Groundwater Protection Zones.

Significant issues discussed included:

- Cumulative effect of taking water outside the Waimakariri River
- Ways of achieving objective of increasing sprint flow to reduce the amount extracted and the amount used per head
- Catchment of springs beyond zone boundaries – issue for discussion with Waimakariri Zone Committee Joint Meeting.

The meeting concluded at 9.56pm

CONFIRMED THIS 27TH DAY OF SEPTEMBER 2012

**IAN FOX
CHAIRPERSON**

6. REGIONAL COMMITTEE UPDATE

6.10PM

AGENDA ITEM NO: 6	SUBJECT MATTER: Regional Committee update
REPORT: Christchurch West Melton Zone Committee	DATE OF MEETING: 27 September 2012
REPORT BY: Jon Harding, Committee Member	

PURPOSE

This agenda item is for the Zone Committee to be briefed on items of relevance to the zone arising from the latest meeting of the Regional Committee of the Canterbury Water Management Strategy.

BACKGROUND

The Regional Committee's latest meeting was held on 11th September at Wigram Manor, Christchurch.

Jon Harding is the Christchurch West Melton Zone Committee's representative on the Regional Committee and will give a verbal brief at the public meeting.

7. "YOUTH HUI" FEEDBACK ON THE WORKING DRAFT ZONE IMPLEMENTATION PROGRAMME

6.20PM

AGENDA ITEM NO: 7	SUBJECT MATTER: "Youth Hui" feedback on the working draft Zone Implementation Programme
REPORT: Christchurch West Melton Zone Committee	DATE OF MEETING: 27 September 2012
REPORT BY: Matthew Ross, Facilitator	

PURPOSE

This agenda item is for the Zone Committee to receive feedback on the working draft Zone Implementation Programme from participants on a "Youth Hui" which was facilitated by Environment Canterbury on 24/25 August 2012.

BACKGROUND

Environment Canterbury facilitated a "Youth Hui" on 24/25 August 2012 for a group of 14-24 yrs to discuss water management issues in the Christchurch West Melton Zone.

A sub-set of participants will make a verbal presentation to the zone committee at the public meeting on 27th September 2012.

ATTACHMENTS

- Letter from Youth Hui participants to the Zone Committee to be tabled.

8. GROUNDWATER QUALITY

6.40PM

AGENDA ITEM NO: 8	SUBJECT MATTER: Groundwater quality
REPORT: Christchurch West Melton Zone Committee	DATE OF MEETING: 27 September 2012
REPORT BY: Matthew Ross, Facilitator	

PURPOSE

This agenda item is for the Zone Committee to be briefed by Environment Canterbury on groundwater quality.

BACKGROUND

In developing the draft Zone Implementation Programme, the Zone Committee have sought additional information on the current quality of groundwater in the zone.

Carl Hanson, from Environment Canterbury, will give a presentation on groundwater quality, including the key points summarised in the briefing note.

ATTACHMENTS

- Briefing note from Carl Hanson, Environment Canterbury (**attached**)

GROUNDWATER QUALITY, CHRISTCHURCH-WEST MELTON ZONE
Environment Canterbury monitoring data
to be presented to the Christchurch-West Melton Zone Committee on 27 September 2012
Carl Hanson, Team Leader Groundwater Quality, Environment Canterbury

CHRISTCHURCH GROUNDWATER PROTECTION ZONE BOUNDARY

- Environment Canterbury boundaries (NRRP, LWRP) based on:
 - o groundwater level maps (piezometric contours)
 - o geology (former flow channels of the Waimakariri River; old river terraces)
 - o groundwater chemistry (oxygen isotopes; nitrate concentrations)

- groundwater modelling by Aqualinc Ltd:
 - o prepared for Central Plains Water irrigation scheme consent application
 - o presented to zone committee recently by Paul White of GNS Science Ltd
 - o shallow groundwater flow patterns consistent with Environment Canterbury boundaries
 - o deep groundwater flow patterns suggest some soil drainage from upper plains could reach Christchurch groundwater system
 - o interpretation
 - deep groundwater flow paths based on very few data
 - high degree of uncertainty
 - even if correct, suggest soil drainage from upper plains makes up only a very small portion of the total groundwater flow to the Christchurch system

NITRATE

- distribution
 - o low concentrations in north and central parts of the zone
 - generally less than 3 mg/L (nitrate nitrogen)
 - reflect Waimakariri River as dominant source of water
 - NOTE: If nitrate concentrations in the river increase, this is unlikely to have a major effect on drinking-water quality in the groundwater. Ecological thresholds for the river are much lower than drinking-water standards. For example, if concentrations in the river reached 3 mg/L (probably an extreme situation), this would cause major ecological problems for the river but would still be well below the MAV of 11.3 mg/L
 - also reflect low-intensity land use to west of city
 - o higher concentrations in south in Aquifer 1 (to roughly 40 m depth)
 - some concentrations above ½ MAV
 - historic concentrations have exceeded MAV in some wells, but we've only measured concentrations above MAV in one well since early 1990s
 - demonstrate greater influence of soil drainage and vulnerability of groundwater quality to land use in southern part of the city
 - o low concentrations in deeper aquifers throughout zone

- trends
 - o generally decreasing from late 1980s to early 2000s, but levelled off since then

OTHER CONTAMINANTS

- bacteria and pathogenic microbes
 - o localised contaminants – within a few hundred metres of source
 - o shallow wells (less than about 50 m deep) most vulnerable

- chemical contaminants
 - o petroleum compounds and solvents
 - have been detected in some wells in the southern and north-western parts of the city
 - concentrations generally very low – well below drinking-water standards
 - one public supply well at Hillmorton was closed in the late 1980s because of trichloroethene, an industrial solvent; concentrations have decreased over time
 - precise sources generally not known, likely to be industries, old landfills
 - some contaminated sites are likely to have caused contamination of shallow groundwater, but no records of any effects on drinking-water supplies
 - o heavy metals
 - some detections near old landfills – Harewood, Wigram
 - one private domestic well in Wigram abandoned
 - also natural occurrences of iron, manganese and arsenic in some areas
 - arsenic in shallow well on New Brighton spit – natural
 - arsenic in Harewood – could be from timber treatment or landfill
 - o pesticides – no significant detections

9. DRAFT ZONE IMPLEMENTATION PROGRAMME FOR CONSIDERATION

7.20PM

AGENDA ITEM NO: 9	SUBJECT MATTER: Draft Zone Implementation Programme for consideration
REPORT: Christchurch West Melton Zone Committee	DATE OF MEETING: 27 September 2012
REPORT BY: Matthew Ross, Facilitator	

PURPOSE

This agenda item is for the Zone Committee to consider the latest version of the draft Zone Implementation Programme with a view to agreeing a draft ZIP for public engagement and consultation.

BACKGROUND

A working draft Zone Implementation Programme (ZIP) was agreed for targeted early engagement at the 28th June 2012 public meeting.

In addition to two public meetings in July and August 2012, the Zone Committee has held 10 informal workshops and 1 informal feedback session, over the past 2 months to further develop content for the draft ZIP for public engagement and consultation.

The latest version will be discussed by the Zone Committee at the public meeting on 27th September with a view to agreeing a draft ZIP for public engagement and consultation

ATTACHMENTS

- Draft ZIP for consideration (to be tabled)

10. WORK PROGRAMME TO ZIP

8.40PM

AGENDA ITEM NO: 10	SUBJECT MATTER: Work Programme to ZIP
REPORT: Christchurch West Melton Zone Committee	DATE OF MEETING: 27 September 2012
REPORT BY: Matthew Ross, Facilitator	

PURPOSE

Agenda item is for the Zone Committee to note the updated work programme to producing the Zone Implementation Programme (ZIP).

ATTACHMENTS

- Work Programme as of 27 September 2012