

CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE

AGENDA

THURSDAY, 28 AUGUST 2014

AT 5PM

**BECKENHAM SERVICE CENTRE
66 COLOMBO STREET**

Committee: Hugh Thorpe, Community Representative (Deputy Chairperson)
Councillor Pauline Cotter, Christchurch City Council
Councillor Debra Hasson, Selwyn District Council
Commissioner Rex Williams, Environment Canterbury
Arapata Reuben, Tūāhuriri Rūnanga
Yvette Couch-Lewis, Rāpaki Rūnanga
Les Wanhalla, Te Taumutu Rūnanga
Chris Kelliher, Community Representative
Hamish Keown, Community Representative
Lan Pham, Community Representative
Ian Fox, Community Representative
Robert Wynn-Williams, Community Representative

Principal Adviser
Diane Shelander
Tel: 941 8304
Christchurch City Council

Zone Facilitator
Matthew Ross
0275642371
Environment Canterbury

Committee Adviser
Margaret Henderson
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Christchurch City Council

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CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE
28. 8. 2014

1. APOLOGIES

Ian Fox.

2. ELECTION OF A CHAIRPERSON

The current Chairperson has retired and the Committee is required to elect a new Chairperson.

Before calling for nominations the Committee must determine by resolution which of the following systems for voting is to be used.

“System A—

- (a) requires that a person is elected or appointed if he or she receives the votes of a majority of the members of the local authority or committee present and voting; and
- (b) has the following characteristics:
 - (i) there is a first round of voting for all candidates; and
 - (ii) if no candidate is successful in that round there is a second round of voting from which the candidate with the fewest votes in the first round is excluded; and
 - (iii) if no candidate is successful in the second round there is a third, and if necessary subsequent, round of voting from which, each time, the candidate with the fewest votes in the previous round is excluded; and
 - (iv) in any round of voting, if 2 or more candidates tie for the lowest number of votes, the person excluded from the next round is resolved by lot.

System B—

- (a) requires that a person is elected or appointed if he or she receives more votes than any other candidate; and
- (b) has the following characteristics:
 - (i) there is only 1 round of voting; and
 - (ii) if 2 or more candidates tie for the most votes, the tie is resolved by lot.”

RECOMMENDATION

It is recommended that the Committee:

- (a) Adopt by resolution, which system of voting it will use to elect a Chairperson that is System A or System B.
- (b) Resolve to elect a Chairperson.

3. CONFIRMATION OF MINUTES – 24 JULY 2014

The minutes of the Committee meeting held on 24 July 2014 are **attached**.

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

**CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE 28. 8. 2014
ATTACHMENT 1 TO CLAUSE 3**

**CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE
24 JULY 2014**

**A meeting of the Christchurch West Melton Water Management Zone Committee was held in
The Boardroom, Fendalton Service Centre on Thursday 24 July at 5.05pm**

PRESENT:

Ian Fox, Community Representative (Chairperson)
Hugh Thorpe, Community Representative (Deputy Chairperson)
Councillor Pauline Cotter, Christchurch City Council
Councillor Debra Hasson, Selwyn District Council
Arapata Reuben, Tūāhuriri Rūnanga
Jane Doogue, Community Representative
Chris Kelliher, Community Representative
Hamish Keown, Community Representative
Lan Pham, Community Representative

APOLOGIES:

An apology for absence was received and accepted from Rex Williams, Les Wanhalla and Robert Wynn-Williams.

An apology for lateness was received and accepted for Pauline Cotter who arrived at 6.15pm and was absent for Clauses 1, 2, 3, 4, 5 and 6.

The meeting was opened with a karakia from Arapata Reuben.

1. CONFIRMATION OF MINUTES

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

2. MATTERS ARISING FROM THE MINUTES

Nil.

3. DEPUTATIONS BY APPOINTMENT

Nil.

4. IDENTIFICATION OF URGENT ITEMS

RAIN GARDEN PROJECT

Brian Norton from Christchurch City Council spoke to the Committee regarding project plans for a Rain Garden on the corner of Kilmore and Durham Streets.

The Christchurch West Melton Zone Committee **decided** that they:

- 4.1 In principal support the Trial Rain Garden and monitoring project
- 4.2 Recommend that Christchurch City Council explores opportunities to fully fund the project.
- 4.3 Recommend that Christchurch City Council explore opportunities for partnership with Environment Canterbury and Christchurch Central Development Unit.

5. IDENTIFICATION OF GENERAL PUBLIC CONTRIBUTIONS

Nil.

**CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE 28. 8. 2014
ATTACHMENT 1 TO CLAUSE 3**

6. WATER RELATED SERVICES BYLAW

The Committee agreed that the proposed Water Related Services Bylaw is generally well aligned with the Committee's advice. Written feedback will be provided to the Chief Executive Officer of Christchurch City Council from the Chairperson.

7. COMMUNITY WATER CONVERSATIONS

The Communications Engagement Working Group reported back to the Committee on activities since the last meeting, including recent communication with Christchurch City Council Community Boards.

The Committee **received** the information and support further progress of the "draft Communications Strategy" from the Communications Engagement Working Group.

It was noted and agreed by the Committee that it is important that they clearly account their performance measures.

8. STORMWATER SCIENCE IN CHRISTCHURCH

Dr Tom Cochrane, from the Hydrological and Ecological Engineering Research Group at the University of Canterbury provided the Committee with a presentation on stormwater science in Christchurch.

Key points included:

- Overview of prior stormwater research
- Gaps in knowledge, monitoring and decision making tools
- Vision for Stormwater Research, teaching, testing and a demonstration park.

9. NATURAL ENVIRONMENT RECOVERY PROGRAMME (NERP) UPDATE

Chrissie Williams (ECan) gave a progress presentation on the Natural Environment Recovery Programme.

Recent progress and changes included:

- Residential red zone future use community engagement – awaiting announcement
- Flooding - taskforces within Christchurch City Council and Waimakareri District Council
- Sport Canterbury - coordinating discussion on flat-water sports lake
- Waste management – regular reports from Waste Environmental Management Team to strategic partners
- Hazardous Activity and Industries List identification, notification of landowners and public engagement
- Air Plan review - public engagement

Ms Williams included in her update information and feedback on a recent NERP Stakeholders Forum.

11. ENVIRONMENT CANTERBURY ACTION UPDATE

The report provided an update of work completed on the Resource Management Group Schedule (RMS); it also included an update from some of the sections within RMG.

The Committee **received** the report.

**CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE 28. 8. 2014
ATTACHMENT 1 TO CLAUSE 3**

12. ZONE COMMITTEE WORK PROGRAMME UPDATE

The Committee **received** and support the progress of the updated Zone Committee "rolling work programme".

Jane Doogue advised the Committee that due to a change in circumstances she will be resigning from the Christchurch West Melton Water Zone Committee, effective at the close of the meeting. The Chair and members of the Committee thanked Ms Doogue for her contribution to the Committee.

The meeting concluded at 9.10pm with a karakia by Arapata Reuben.

CONFIRMED THIS 28TH DAY OF AUGUST 2014

**IAN FOX
CHAIRPERSON**

CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE
28. 8. 2014

- 4. MATTERS ARISING FROM THE MINUTES**
- 5. DEPUTATIONS BY APPOINTMENT**
- 6. IDENTIFICATION OF URGENT ITEMS**
- 7. IDENTIFICATION OF ANY GENERAL PUBLIC CONTRIBUTIONS**

CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE
28. 8. 2014

CLAUSE 8

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| AGENDA ITEM NO: 8 | SUBJECT MATTER: Regional Committee Update |
| REPORT: Christchurch West Melton Zone Committee | DATE OF MEETING: 28 August 2014 |
| REPORT BY: Matthew Ross, Facilitator | APPROX 15MINS |

PURPOSE

- For the Zone Committee's representative on the Canterbury Water Management Strategy Regional Committee to report back on key items of relevance to the Christchurch West Melton Zone.

BACKGROUND

The Canterbury Water Management Strategy (CWMS) Regional Committee held its bi-monthly formal meeting on 12 August 2014. Meeting papers can be found at: <http://ecan.govt.nz/get-involved/canterburywater/committees/regional-committee/Pages/Default.aspx>

The purpose and function of the CWMS Regional Committee is to:

1. Monitor progress of the implementation of the CWMS across the Canterbury Region; and
2. Provide advice to Environment Canterbury on regional issues associated with implementation of the CWMS.

The objectives of the CWMS Regional Committee are:

1. Periodic review of the implementation of the CWMS by Environment Canterbury and other regional agencies;
2. Assessment of how well the implementation of the Regional Implementation Programme and the Zone Implementation Programmes across the region are meeting CWMS targets, including the identification of gaps;
3. Identification of opportunities for alignment, prioritisation and efficiencies in delivery across all of the Zone Implementation Programmes;
4. Identification, in partnership with Zone Committees and stakeholders, of issues that are of regional importance and would benefit from a regional approach;
5. Leading regional initiatives, such as the use of working groups, with regular reporting to Environment Canterbury, Zone Committees and the Canterbury Mayoral Forum.
This can include but is not limited to:
 - Infrastructure development requiring significant investment and/or involving wider regional stakeholder involvement;
 - Regional biodiversity;
 - A co-ordinated approach to land use and water quality
 - Kaitiakitanga.
6. Oversight of communication on the CWMS to regional stakeholders and audiences.

Lan Pham is the Zone Committee's representative on the Canterbury Water Management Strategy (CWMS) Regional Committee. A short report is attached which highlights key items of relevance to the Christchurch West Melton Zone.

ATTACHMENTS

- Regional Committee Update

Regional Committee Update – August 2014

- The Government's National Policy statement for freshwater management has been released and requires Regional Councils to set objectives and limits in plans by 2025. The broad direction is water quality must be 'maintained or improved' in a region or 'freshwater management unit'. There is the ability to delay the 2025 deadline or not adhere to the set 'bottom lines' in the National Objective Framework if there is existing Infrastructure present in the river which is listed in Appendix 3. Process is currently looking at what the scope may be of 'Appendix 3'. There may be further movement of including MCI as part of NOF.
- Fish passage and screens in water intakes investigation. Currently there is no best practice or cost efficient method of allowing safe fish passage. Current designs provide for trout and salmon protection but not native fish. The cumulative effects of such structures can adversely impact all fish species. There is much scope for improvement and the development of best practice guidelines.
- Matrix of good management (MGM) is a collaborative project with agriculture industries and crown research institutes which aims to define 'good management practice' and inform nutrient loss limits in the LWRP. The aim is to have all farms operating at GMP by 2017. The numbers generated will be able to be used by Zone Committee's to model catchment nutrient losses under current land uses and explore future land use scenarios as part of sub-regional plan development.
- Long fin eel identified as threatened species in need of a Canterbury-specific focus. Lan will be working with other Regional Committee members to put together a discussion document on this.

Lan Pham

Zone Committee representative on the CWMS Regional Committee

CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE
28. 8. 2014

CLAUSE 9

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| AGENDA ITEM NO: 9 | SUBJECT MATTER: Community water conversations |
| REPORT: Christchurch West Melton Zone Committee | DATE OF MEETING: 28 August 2014 |
| REPORT BY: Matthew Ross, Facilitator | APPROX 60MINS |

PURPOSE

1. To hear from the Cashmere Stream Care Group on current community conversations about water management.
2. To report back on Zone Committee engagement activities since the last meeting and note the Zone Committee Chair's correspondence.
3. To receive a verbal update from the Communications and Engagement Working Group on activities since the last meeting.

BACKGROUND

1. Cashmere Stream Care Group is currently finalising an "action plan" for the stream. Environment Canterbury has provided support to the group at the request of the Zone Committee as a targeted catchment in the "on the ground action" project schedule. Cashmere Stream Care Group will outline their progress at the meeting.
2. The Zone Committee members will be asked to give 1 or 2 key points from each of the engagement activities attended since the last meeting, including:
 - (a) Zone Committee correspondence (attached)
 - (i) Avon Otakaro Network and the Canterbury Water Management Strategy - 20 July 2014.
 - (ii) Zone Committee Feedback on the Proposed Christchurch City Council Water Supply, Wastewater and Stormwater Bylaw 2014 –August 2014.
 - (b) Addington Stream Project Fieldtrip – Kiwirail Stormwater Ponds, Matipo Street – 11 August 2014.
 - Purpose of the fieldtrip was for the Zone Committee to:
 - Visit an existing stormwater treatment site in the Addington Brook catchment.
 - Better understand role of wetlands and retention ponds in stormwater treatment *in-situ*.
 - The Zone Committee Chair and Deputy Chair had a pre-meeting with Kiwirail on 11 August 2014.

ATTACHMENTS

- Avon Otakaro Network and the Canterbury Water Management Strategy - 20 July 2014.
- Zone Committee Feedback on the Proposed Christchurch City Council Water Supply, Wastewater and Stormwater Bylaw 2014 – 07 August 2014.

Wednesday 20th July, 2014

Evan Smith
Co-Chair, Avon Otakaro Network
By email

Ian Fox, Chairperson
Christchurch-West Melton Zone Committee
By email

Dear Evan

Avon Otakaro Network and the Canterbury Water Management Strategy.

Thank you for the recent presentations that you made on behalf of the Avon Otakaro Network (AvON) to the Christchurch-West Melton Zone Committee of the Canterbury Water Management Strategy (CWMS). The Zone Committee greatly valued the feedback from AvON on water quality issues in the Avon/Ōtākaro catchment and welcomed the opportunity to be briefed on the project concepts being developed by the group.

The Christchurch West Melton Zone Implementation Programme (ZIP) was endorsed by Christchurch City Council, Environment Canterbury, and Selwyn District Council in April 2014. The ZIP sets out what needs to be done in-order to help implement the CWMS in the Zone. In principle, the Zone Committee notes that the suite of concepts proposed by AvON could potentially make a helpful contribution towards delivering the Canterbury Water Management Strategy in the Avon/Ōtākaro catchment.

In addition, the Zone Committee has heard from Christchurch City Council that if available for stormwater management, red zoned land in the lower Avon/Ōtākaro catchment could potentially make a significant contribution to reducing stormwater contaminant loading. As such, the Zone Committee encourages AvON to consider incorporating exemplary stormwater management as a key component into its concepts.

The Zone Committee is supportive of AvON's ongoing efforts to develop project concepts and looks forwards to discussing more specific project proposals in due course. I note that Eastern Vision is current seeking public feedback on a range of proposals for the flat lands on the east of Christchurch including the Avon-Ōtākaro River Park. I have thus copied this letter to Eastern Vision for information.

Yours sincerely



Ian Fox
Chairperson, Christchurch West Melton Zone Committee

CC: Evan Smith, Programme Manager, Eastern Vision, by-email

07 August 2014

Ian Fox, Chairperson
Christchurch West Melton
Zone Committee
PO Box 345
Christchurch 8140

Karleen Edwards
Chief Executive
Christchurch City Council
PO Box 73016
Christchurch

Dear Karleen

CHRISTCHURCH WEST MELTON ZONE COMMITTEE FEEDBACK
ON THE PROPOSED CHRISTCHURCH CITY COUNCIL WATER SUPPLY, WASTEWATER AND STORMWATER BYLAW 2014

Please find attached the feedback of Christchurch West Melton Zone Committee on the “Proposed Christchurch City Council Water Supply, Wastewater and Stormwater Bylaw 2014.” In summary, the committee considers that the intent of the proposed Bylaw changes would assist with the implementation of the Canterbury Water Management Strategy (CWMS) and thus:

- Supports the proposed new Bylaw in its general approach to regulating water supply, wastewater and stormwater public systems.
- Recommends changes to Part 1 - Water Supply to help manage demand in relation to water use restrictions and minimise public nuisance.
- Seeks clarification on Part 2 - Wastewater in relation to the discharge of organic waste to wastewater systems via waste disposal units.
- Strongly supports proposed changes to Part 3 – Stormwater to increase the level of stormwater regulation for inflows into the public system, including provisions that would enable Christchurch City Council to set standards (e.g. for quality and quantity) for accepting stormwater discharged into the public system.
- Reiterates the need for:
 - Councils to invest in developing effective and affordable stormwater performance standards through a collaborative, community-led process.
 - Christchurch City Council to encourage domestic water-use efficiency.
- Reiterates that well-resourced action on education, awareness raising, proactive pollution prevention, and enforcement where necessary, are essential to the effective management and operation of the public systems addressed in the proposed Bylaw.

Christchurch West Melton Zone Committee is a joint committee of Christchurch City Council, Environment Canterbury, and Selwyn District Council. The Christchurch West Melton Zone Implementation Programme (ZIP) was endorsed by councils in April 2014 and includes a number of Priority Outcomes and Recommendations related to water supply, wastewater and stormwater public systems.

The committee provided advice and feedback to Christchurch City Council on the Water Related Services Bylaw 2008 at its November 2013 and January 2014 formal meetings to inform the review. The committee subsequently discussed the proposed Bylaw at its formal meeting on 24 July 2014. It did not however have an opportunity to comment on a draft proposed Bylaw prior to its release by Christchurch City Council for public submissions.

Whilst it would not seem appropriate for the committee to submit on the proposed Bylaw (it does not have the authority to submit on proposed Resource Management or Local Government Plans, or resource consent matters), it hopes that the feedback provided will help to inform the engagement of organisations represented on Christchurch West Melton Zone Committee if they are participating in the submissions process. I have thus copied this letter for information to Environment Canterbury.

Yours sincerely



Ian Fox
Chairperson, Christchurch West Melton Zone Committee

CC. *Bill Bayfield, CEO, Environment Canterbury*
Diane Shelander, Principal Advisor to the Zone Committee, Christchurch City Council
Ruth Littlewood, Senior Policy Analyst, Christchurch City Council

Christchurch West Melton Zone Committee Feedback on the
Proposed Christchurch City Council Water Supply, Wastewater and Stormwater Bylaw 2014
07 August 2014

Background

Christchurch West Melton Zone Committee is a joint committee of Christchurch City Council (CCC), Environment Canterbury, and Selwyn District Council. The Christchurch West Melton Zone Implementation Programme (ZIP) was endorsed by councils in April 2014 and includes a number of Priority Outcomes and Recommendations related to water supply, wastewater and stormwater public systems.

The committee provided advice and feedback to CCC on the Water Related Services Bylaw 2008 at its November 2013 and January 2014 formal meetings to inform the review. The committee subsequently discussed the proposed Bylaw at its formal meeting on 24 July 2014. The committee did not however have an opportunity to comment on a draft proposed Bylaw prior to it being released by CCC for public submissions.

Feedback on Proposed Bylaw

Part 1 Water supply

The ZIP includes a number of recommendations for CCC relating to domestic, commercial, industrial, and public water use, that are of relevance to the public water supply systems; “Making efficient use of water and managing demand” is a Key Priority in the ZIP. The ZIP states that “In order to implement the CWMS in our Zone, we need to reflect, debate, and decide as a community on the best mechanisms for encouraging more efficient water use.”

The committee broadly supports Part 1 of the proposed Bylaw for regulating the public water supply systems, and notes that under Demand Management:

- Section 13 provides for restrictions on water use relating to all users of the public water supply systems in all water supply areas.
- Section 15 requires supplementary water storage for all new properties in Akaroa and Little River water supply areas via rainwater collection and storage for non-potable uses.
- No requirements for supplementary water storage in CCC water supply areas within the Christchurch West Melton Zone are included.
- No requirements for supplementary water storage for existing premises connected to the public water supply system are included.
- There is no requirement for premises to install other measures to manage demand on the public water system e.g. water efficient taps.
- There are no provisions that would enable CCC to set minimum standards for water demand management purposes for premises connecting to the public water supply systems.

The committee recommends that the proposed Bylaw should be changed to strengthen provisions relating to demand management that could help to avoid, delay, or minimise restrictions on water use and the associated issues of public nuisance and health. Suggested options for consideration:

- Extending the supplementary water storage requirements (Section 15) to apply to:
 - All CCC water supply areas in the Christchurch West Melton Zone.
 - All premises (new and existing) over time.¹
- Introducing new requirements for the installation of other mechanisms to manage demand for all premises over time.

¹ The committee notes that collecting and storing rainwater for non-potable uses could also have a benefit in managing stormwater discharges into the public stormwater systems.

- Adding a new rule for the purpose of demand management, that would enable CCC to set minimum requirements for water use efficiency measures for all premises connected to public water supply systems.
- CCC use a collaborative, community-led process to develop water use efficiency measures that are affordable and achievable for all sections of the community.

As with the proposed minimum stormwater standard referenced in the proposed Bylaw, the suggested minimum standards for supplementary water use efficiency measures could sit outside of the Bylaw in an attachment (e.g. Attachment XX). This approach could provide space for the development of effective and affordable water use efficiency standards for both new and existing premises through a collaborative, community-led process.

For example, possible wordings for the Bylaw could include:

15. Requirement for supplementary water storage and water use efficiency measures for all Council water supply areas.

- Within all Council water supply areas, a tank or facility with a minimum capacity of 5000 litres is required for all new premises constructed after this bylaw comes into force for the purpose of collecting and storing rainwater for non-potable purposes only.
- Within all Council water supply areas, the minimum standards for water use efficiency measures (Attachment XX) are required for all premises connected to a Council water supply.

Finally, encouraging people to use less water is also an important part of managing demand. The committee thus reiterates ZIP recommendations to CCC about the importance of investing in awareness raising and education activities to help people use water more efficiently.

Part 2 – Wastewater

The ZIP includes a Priority Outcome that “Wastewater impacts on surface water quality are reduced” and makes recommendations to CCC that are of relevance to the public wastewater systems.

The committee broadly supports Part 2 of the proposed Bylaw for regulating the public wastewater systems. It notes that under Section 27 Wastewater Drains, whilst domestic household organic waste can be disposed of to the wastewater system via a waste disposal unit without authorisation, the discharge of similar organic materials with or without a waste disposal unit from other sources requires authorisation. There is no explanation for the different approach and no referenced criteria or standards for authorisation of non-household waste.

The committee is concerned that use of waste disposal units to discharge non-sewage organic waste may be undesirable if there are negative effects on network operation and performance, especially if it could contribute to public nuisance and health issues associated with wet weather overflows to waterways. In addition, it is concerned that the additional loading of non-sewage organic materials on the wastewater network could reduce the lifetime of infrastructure components or increase maintenance costs, reducing the efficiency of the wastewater treatment plant for its primary purpose of processing sewage.

To enable the committee to better consider Part 2 of the proposed Bylaw, the committee requests a briefing from CCC on the following items at its 28 August 2014 formal meeting:

- The effects of organic matter discharged via waste disposal units (from dwellings and other sources) on the operation and management of CCC public wastewater systems and treatment plants.
- The criteria or standards used for authorising discharges of non-household organic waste to CCC public wastewater systems (with or without a waste disposal unit).

In the meantime, the committee suggests that the proposed Bylaw could be changed to take a more pre-cautionary approach to the use of waste disposal units by prohibiting the installation of waste disposal units in all new properties that are connected to the wastewater network. For example, possible wordings for the Bylaw could include:

27. Wastewater drains

(1) Unless authorised by the Council no person may:

- Connect a waste disposal unit to any Council wastewater drain, for all new premises constructed after this bylaw comes into force.

Part 3 – Stormwater

The impacts of stormwater on urban waterways in Christchurch are currently the critical barrier to successfully implementing the CWMS in Christchurch West Melton Zone. A Priority Outcome in the ZIP is that “Stormwater impacts on surface water quality are reduced” and includes specific recommendations for CCC on reviewing statutory plans, enforcement activities, improvements to public stormwater infrastructure, and performance standards.

Improving stormwater management is a current focus of the committee and a priority on its 2014/15 work programme. At the March 2014 formal meeting, the committee considered a discussion paper on “Innovative, Desirable, Effective and Affordable Stormwater Management Solutions: A Collaborative Approach to Improving Christchurch’s Urban Waterways?” The committee recommended:

“That Christchurch City Council and Environment Canterbury jointly investigate and report on options to implement a community-led, collaborative approach to improving stormwater management. This will enable the Zone Committee to make stormwater management improvement recommendations to the Councils. Options should include, but not be constrained to:

- The potential for a collaborative community-led approach to establish the performance benchmark for successful stormwater management in the zone, and;
- The potential for the regulatory framework to enable and empower the conclusions of a collaborative, community-led approach.”

The committee is supportive of the use of the proposed Bylaw to help manage stormwater inputs to the reticulated public stormwater systems, because discharges from public stormwater systems can impact on public health, safety, and nuisance as a result of poor water quality. The committee also strongly supports the proposed changes to increase the level of stormwater regulation for flows into the public system including provisions that would enable CCC to set standards (e.g. for quality and quantity) for accepting stormwater discharged into the public system.

The committee notes that the proposed minimum stormwater standards referenced in the proposed Bylaw are yet to be determined, and would sit outside of the Bylaw in Attachment ZZ. The committee strongly supports this approach as it provides space for the development of effective

and affordable stormwater standards through a collaborative, community-led process.

The committee recommends that Section 33. Prohibited Activities is changed to include reference to public health as well as nuisance. For example, possible wordings for the Bylaw could include:

33. Prohibited Activities

Without the written authorisation of the Council, no person may:

- (a) Allow any material ... to cause a nuisance and/or public health hazard ...
- (b) Allow any material ... to cause a nuisance and/or public health hazard ...

General points

The committee seeks clarification on the how the proposed Bylaw will be interpreted with regards to the use of waterways as drains for conveying stormwater.

The committee reiterates that well-resourced action on education, awareness raising, proactive pollution prevention, and enforcement where necessary, are essential to the effective management and operation of the public systems addressed in the proposed Bylaw. The committee would welcome a briefing on how councils are planning to provide for these activities in their long term plans.

If summary and overview information in the proposed Bylaw document is to be updated as a preface to the final Bylaw, the committee recommends that:

- Reference is made to the CMWS and ZIP as guiding documents for the management of public water supply, wastewater and stormwater systems, alongside references to the Resource Management Act and CCC strategies and plans.
- References to “global consents” are fully explained so that the reader understands what a global consent is under the RMA and the obligations that it confers on CCC.
- A short overview explanation of what the finalised Bylaw is trying to achieve is included to help the reader access the document.

CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE
28. 8. 2014

CLAUSE 10

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| AGENDA ITEM NO: 10 | SUBJECT MATTER: Groundwater |
| REPORT: Christchurch West Melton Zone Committee | DATE OF MEETING: 28 August 2014 |
| REPORT BY: Matthew Ross, Facilitator | APPROX 50MINS |

PURPOSE

1. To receive and discuss Christchurch City Council's a discussion paper outlining next steps for the "Aquifer Recharge Project"

BACKGROUND

"Safeguarding groundwater quality and flows for multiple uses" is a Priority Issue in the Christchurch West Melton Zone Implementation Programme.

The Zone Committee has provided advice and comment on two items related to the

1. The Zone Committee received the "Canterbury Region Water Use Report for the 2012/13 water year" from Environment Canterbury at its January 2014 formal meeting. The full report can be read at:
<http://ecan.govt.nz/publications/Reports/CanterburyWaterReport2012-13.pdf>

Environment Canterbury has produced an updated report on water usage in the Christchurch West Melton Zone (attached) at the request of the Zone Committee. There will be an opportunity for questions of clarification at the meeting.

2. The Zone Committee received the "Recharge of the Christchurch Artesian Aquifer System" report prepared by Golder Associates for Christchurch City Council. The report summarised current technical understandings and identified areas for further research. The original report can be found in the Zone Committee meeting papers for September and October 2013 (see footnote¹). The Zone Committee agreed:
 - That the Christchurch City Council keep going with the working being done on the Aquifer Recharge Project.
 - That the project be promoted through other agencies/avenues, not just the Christchurch City Council.
 - That further research be undertaken to fill the gap regarding where the water comes in and goes out and that the Committee be kept informed on the progress,
 - That research on the effects of rainfall on the aquifers also be given a high priority.

At the 26 June 2014 formal meeting, the Zone Committee received an update on progress from Christchurch City Council.

The attached report sets out possible next steps with the project.

¹ http://resources.ccc.govt.nz/2F437636-75E9-42B5-BB00-838352586BAF/FinalDownload/DownloadId-6ADA4C349F0AC79BBE8374D260762BFD/2F437636-75E9-42B5-BB00-838352586BAF/files/TheCouncil/meetingsminutes/agendas/2013/October/SepCirc_CWMZone_24Oct2013_Final.pdf

CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE
28. 8. 2014

ATTACHMENTS

- Aquifer Recharge Project – Next Steps?

Christchurch artesian aquifer system and its recharge: The Christchurch City Council's work programme

1. Purpose of this report

The purpose of this report is to update the Christchurch - West Melton Zone Committee (C-WMZC) on:

- (1) The work required to progress the findings of the August 2013 - Stage 1 report *Recharge of the Christchurch Artesian Aquifer System: State of the Science, Gaps and Future Work* and a subsequent workshop.
- (2) The 'state of play' with the Christchurch City Council's *Next Steps Programme* of work and funding.

In June 2014 the C-WMZC received a report updating the progress made since 2013 to better understand the Christchurch artesian aquifer system and its recharge. The report also summarised future possible work and the need for support and direction from the Zone Committee. Some of the information in the June 2014 report has been repeated in this report to provide clarity.

2. Summary of completed, current and proposed work as at June 2014

A programme of work started in March 2013 is given below. The *planning and implications* report was initiated largely to assist the Christchurch City Council (the Council) with review of the District Plan. Completion of the proposed Stage 3 report on *braided river flow and velocity/dispersion characteristics* is provisional on getting funding and on further discussion with other organisations and a wider discussion across other parts of the Council.

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|--------------------|---|
| March - April 2013 | Interviews: Interviews were had with eight technical experts. Opinions were sought on the conceptual model for the Christchurch artesian aquifer, understanding of contributions to total recharge, perceived areas of technical agreement/disagreement, work completed that had particular merit for the purpose of meeting Council's programme objectives, and gaps in technical understanding of aquifers and their recharge. |
| May 2013 | Workshop 1: The workshop, involving 12 technical experts, helped prioritise the key 'issues', clarify areas of agreement/disagreement and processes needed to resolve differences, data gaps and improvements in understanding resulting from additional data, potential further work, and links to current work programmes across all organisations. |
| August 2013 | Stage 1 report <i>Recharge of the Christchurch Artesian Aquifer System: State of the Science, Gaps and Future Work</i>: The report includes a literature review, findings from the March/April 2013 interviews and Workshop 1, summary of key areas of agreement and differences in technical understanding, gaps in technical understanding, recommendations for further work, and conclusions. |
| March 2014 | Workshop 2: The workshop, involving 18 technical experts, better defined the approaches and work required to achieve the recommendations from the Stage 1 report, established a better understanding of organisations work programmes, Council information |

requirements, and priorities for, and opportunities for organisations to work together.

June 2014 - ?

Next Steps Programme: It is intended, based on findings from Workshop 2 and further discussions with Council and Environment Canterbury staff, the 'prioritised needs' list from Workshop 2 will be developed into three project themes, water quality, quantity-flows, and pathways. The projects will specifically address key questions about the Christchurch aquifer system. The programme would use the expertise of the established technical expert group together with guidance from the Christchurch - West Melton Zone Committee, and Council and Environment Canterbury staff.

July 2014

Stage 2 report *Recharge of the Christchurch Artesian Aquifer System: Planning Implications and Options.*

July 2014 - June 2015

Stage 3 report *Recharge of the Christchurch Artesian Aquifer System: Braided river flow and velocity/dispersion characteristics.* The completion of this work and its scope is contingent on obtaining additional funding either from within the Council and/or with external organisations.

3. Summary of information and work required

The following table summarises the main findings of Stage 1 report *Recharge of the Christchurch Artesian Aquifer System: State of the Science, Gaps and Future Work* and Workshop 2. The priorities reflect both the magnitude and urgency of the issues from a scientific perspective.

| Issues | Information gap | Information or work needed to reduce uncertainty | Priority(1) |
|----------------|-----------------|---|--|
| River recharge | Quantum | (1) Groundwater level monitoring sites adjacent to river (2) Groundwater level and flow monitoring near headwaters of spring-fed streams (3) Rainfall on river bed (4) Determination of underflow (5) Update of ECan river cross-sections surveys. Potential to include bed material, morphology and vegetation. (6) Remote sensing of river | High High Low Low Medium Medium |
| | Location | (1) Piezometric data in riparian zones (2) River gauging at specific sites (3) Geological mapping of gravel lobes | High High Low |
| | Variability | (1) Spring flow monitoring near headwaters of spring-fed streams | High |

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| | | (2) Update shallow piezometric contours near river (3) Determine groundwater velocities away from river by tracer injection (4) Continue monitoring and analysis of hydraulic gradient across bore network array to determine time variation of groundwater gradients | High High High |
| | Controlling factors | (1) Place piezometers in river and riparian zone to determine shell formation (2) Monitor flow, wetted area, stage, adjacent groundwater levels, bed conductivity, and adjacent aquifer properties (2) Determine presence or not of unsaturated zone below river (3) Monitor temperature changes in river and adjacent groundwater (4) Determine adjacent aquifer transmissivity and storage coefficients by pumping tests (5) Determine shape and variation of groundwater levels in transect away from river | Low-medium Low-medium Low-medium Medium High High |
| | Water quality | (1) Maintain water quality monitoring and compare with land use change using additional deep wells if required | High |
| Land surface recharge | Variability in rainfall and land surface recharge | (1) Relationship between rainfall and land surface recharge, continued calibration of lysimeter data, re-commissioning and continued maintenance of sites maintained, including adjacent shallow groundwater level responses and water quality (2) Update of model inputs, including soil properties, rainfall data, evapotranspiration data, remote sensing followed by sub-regional up-scaling of lysimeter data | High High |
| | Quantum relative to river recharge | (1) Map, using existing water quality, the relative contribution of river to land surface recharge within the project area | High |
| General groundwater and surface water quantity and quality | Surface water flow and quality (including springs) | (1) Map of groundwater abstractions, including depth and degree of hydraulic connection (2) Determination of the degree of urban imperviousness and land surface recharge potential | High Low |

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|--|--------------------------------|--|--------|
| | | (3) Monitor water quality and quantity in streams and relate to upstream land use, including urbanisation | High |
| | Groundwater levels and quality | Update relationship between land surface recharge and underlying shallow groundwater and spring water quality and quantity | Medium |

4. Other organisations current work programmes

The following current and on-going studies show a general alignment with the Council's proposed studies. Some studies would require a minor change in focus to ensure the key issues as summarised in section 3 of this report are addressed.

- (1) Redraft conceptual recharge model (high priority)
- (2) Develop methods to measure braided river flow more accurately (high priority)
- (3) Improve understanding of river recharge to groundwater system (high priority)
- (4) Assess groundwater velocities and dispersion characteristics adjacent to the Waimakariri River (high priority)
- (5) Better quantify rainfall recharge into the groundwater system (high priority)
- (6) Re-assess steady-state and transient water balance, and assess sustainability
- (7) Map Waimakariri River geomorphology and local scale hydrology for recharge model (medium priority)
- (8) Quantify flow and water quality in spring-fed streams, and relate to state of Waimakariri River (medium priority)
- (9) Assess surface water and ground water quality trends (medium priority)
- (10) Improve understanding of saltwater/freshwater interface (low priority)
- (11) Improve understanding deep water quality and quantity through increased monitoring (low priority)
- (12) Improve understanding of aquifer southern boundaries (low priority)

5. Next Steps Programme

Further development of the Next Steps Programme is currently on hold because the Council has not yet set budgets for 2014/15 and beyond. It is unknown when budgets will be confirmed. Early indications suggest that the Next Steps Programme will not receive funding for 2014/15.

Clear direction on prioritising 'information needs' for better understanding the Christchurch aquifer system have been established by the Christchurch City Council (the Council). The focus is "*what information is needed in the next three to five years to help answer important outstanding questions?*". This question has been addressed against three project themes:

- Quality - protecting and enhancing water quality conditions of the aquifer system
- Quantity - ensuring sustainable groundwater yields are understood, and that spring-fed flows for Christchurch waterways are protected, and
- Pathway - understanding the connectivity both spatially and temporally (timing) of water movement in the system.

The Council's intention is for programme projects to be established to focus on key parameters (e.g. movement of water to spring-heads) while also addressing some of the broader issues that are important for long-term management (e.g. climate change and contaminant concentrations).

Technical experts will contribute to the projects, along with guidance and direction from the Zone Committee and its Zone Implementation Programme. This will help ensure currently defined outcomes are being worked towards. For the programme to proceed technical and funding co-ordination will need to be developed across a broad range of potential opportunities including local, regional and national sources.

The key to the programme's success will be to continue using and growing a collaborative and inclusive approach to project development and scoping. As part of this, strong partnership between Environment Canterbury and Council technical staff, and clear and strong direction from the Zone Committee is needed.

6. General comments

Progress with the work programme to-date can be attributed largely to the willingness of a diverse range of organisations and individuals to work together, as well as 'seed-funding' from the Council. Time contributions from technical experts has been considerable and significant momentum has been achieved. It is the desire of Council staff to continue this programme of work and to realise the outcomes sought. However, until the Council confirms budgets for 2014/15 and beyond, little progress can be made.

Following a decision by Council on budgets and funding, Council staff will be able to work with the C-WMZC to (1) prepare a work programme to further the recommendations of the Stage 1 report, and/or (2) prepare a work programme to assist the C-WMZC to work with other organisations (for example NIWA and GNS) to tailor their work programmes to meet the objectives (as defined in the Zone Implementation Programme) sought by C-WMZC.

Report prepared by:

Peter Kingsbury
Christchurch City Council

20 August 2014

CHRISTCHURCH WEST MELTON WATER MANAGEMENT ZONE COMMITTEE
28. 8. 2014

CLAUSE 11

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| AGENDA ITEM NO: 11 | SUBJECT MATTER: Stormwater |
| REPORT: Christchurch West Melton Zone Committee | DATE OF MEETING: 28 August 2014 |
| REPORT BY: Matthew Ross, Facilitator | APPROX 30MINS |

PURPOSE

1. To note the summarised information on the regulatory context for stormwater management of Christchurch's urban waterways and Zone Committee's approach to improving stormwater management.
2. To be verbally briefed on the progress of Christchurch City Council's and Environment Canterbury's joint Stormwater Management Issues Working Party.

BACKGROUND

The Zone Committee have identified stormwater as a critical barrier to implementing the Canterbury Water Management Strategy (CWMS) in the Zone. The Zone Implementation Programme (April 2013) includes a number of priority outcomes related to improving stormwater impacts.

1. Summary of the regulatory context for stormwater management and Zone Committee approach
 - The Zone Committee discussed stormwater management at the 24 July 2014 formal meeting and requested the following information for future reference:
 - i. A diagram summarising the regulatory context for stormwater management of Christchurch's urban waterways (attached).
 - ii. A summary of the Zone Committee's approach to improving stormwater management (attached).
2. Stormwater Management Issues Working (SWiM) Party
 - Christchurch City Council and Environment Canterbury's "Planning and Consents Protocol for Surface Water Management 2008" required the establishment of a joint Stormwater Management Issues Working Party.
 - SWiM Terms of Reference:
 - The Working Party provides a forum for senior managers to:
 - Be informed of issues relating to Christchurch stormwater management
 - Develop a partnership approach for managing stormwater discharges in keeping with the direction set in the "Planning and Consents Protocol for Surface Water Management"
 - Discuss and, where possible, resolve conflict or lack of clarity in roles or practice
 - Ensure that the two way principle of "no surprises" is achieved.

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- The Zone Committee was briefed on SWiM priorities for 2013 at the 25 September 2013 formal meeting. SWiM Priorities for 2013 included:
 - Priority issues were identified and work is already underway on:
 - Clearly setting out legislative, planning and institutional framework
 - Links to the CWMS and Natural Environment Recovery Programme
 - Identifying possible approaches for consultation, liaison and input from rūnanga
 - Investigation into potential to fast-track SMPs and consents and desire for consistency across SMPs. This includes the possibility of combining work on the Avon, Heathcote and Estuary SMPs and taking an approach of a single SMP with catchment-specific chapters.
 - Construction phase stormwater discharge. SWiM agrees that some construction phase discharges are better managed by Environment Canterbury, and is now working on an agreed way to determining which type of activities. Likely to be on a risk management basis, e.g. type of activity, sensitivity of environment
 - Commercial industrial sites. SWiM will lead a similar exercise in relation to industrial and commercial sites. It will clarify which sites are best addressed through ECan consent, tradewaste bylaws or under CCC consent conditions.
 - Promote an integrated work programme between Trade Waste Officers and Pollution Prevention Team that is aligned to ZIP recommendations.
 - Internal integration. Both ECan and CCC have set up internal stormwater groups to provide consistency within each organisation and provide advice to and receive feedback from SWiM.

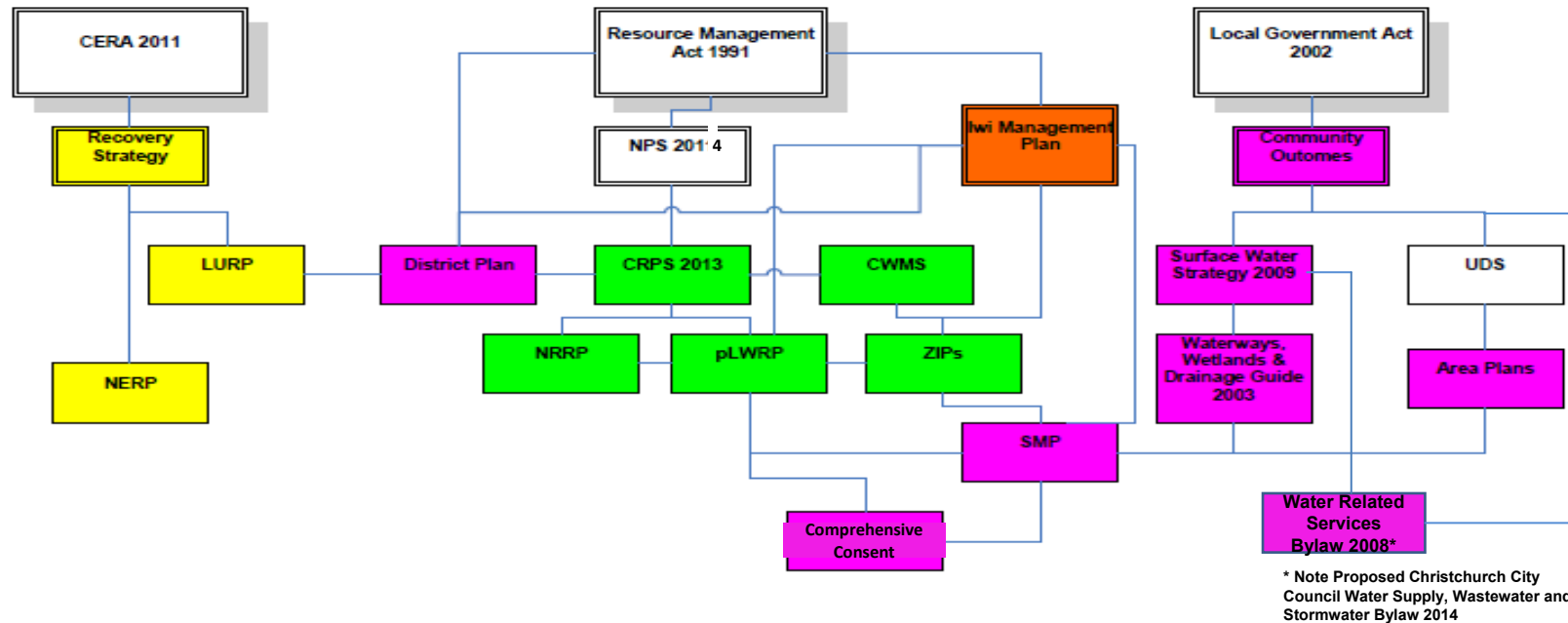
- The committee will be briefed verbally on SWiM's progress over the past 11 months.

ATTACHMENTS

- The Regulatory Context for Stormwater Management of Christchurch's Urban Waterways

- The Zone Committee's Approach to Improving Stormwater Management

Regulatory Context for Stormwater Management of Christchurch's Urban Waterways.



Organisations

| | |
|---------------------------|--|
| CERA | = Canterbury Earthquake Recovery Authority |
| ECan | = Canterbury Regional Council (Environment Canterbury) |
| Christchurch City Council | |
| Ngai Tahu | |

Diagram Acronyms

- CERA = Canterbury Earthquake Recovery Act
- LURP = Land Use Recovery Plan
- NERP = Natural Environment Recovery Programme
- NRRP = Natural Resources Regional Plan
- pLWRP = Proposed Land and Water Regional Plan
- CPRS = Canterbury Regional Policy Statement
- CWMS = Canterbury Water Management Strategy
- ZIPs = Zone Implementation Programmes
- SMP = Stormwater Management Plan
- UDS = Urban Development Strategy

Improving Stormwater Management for Urban Waterways in Christchurch:
Summary of Christchurch West Melton Zone Committee's Approach

Outcomes:

- More stormwater is treated to a better standard at source (before it's discharged to the public stormwater network or an urban waterway).
- The public stormwater network is better able to treat and manage stormwater.
- More people understand and reduce their stormwater footprint.
- The effects of stormwater run-off and downstream flooding and are reduced.

Steps required: Leadership, collaboration, regulation, investment.

- Encourage Christchurch City Council and Environment Canterbury to jointly facilitate a collaborative process to:
 - Develop a work programme that addresses water quality and quantity going into the stormwater system.
 - Secure buy-in and involvement from all sectors and the community.
- Encourage improvement from all land uses through regulation:
 - Resource Management Act 1991 Plans incorporate performance standards for stormwater management to address urban land use impacts on water quality.
 - Local Government Act 2002 Bylaws incorporate performance standards for stormwater to manage discharge to public stormwater networks.
 - Well-resourced and integrated compliance and enforcement activities.
- Improve the public stormwater network by investing in:
 - Installation, upgrades, and maintenance of engineered/treatment solutions (e.g. end of pipe filters, rain gardens, swales)
 - Reduction of inputs to the network:
 - Pollution prevention projects targeting hot-spots.
 - Awareness raising that changes behaviours.
- Integrate management of stormwater quality, run-off and flooding at a catchment level:
 - Integration of stormwater and flood management strategies, plans and activities.
 - Prioritisation of resources for solutions that achieve both stormwater and flood management outcomes.

Community stormwater goals at a catchment level:



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CLAUSE 12

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| AGENDA ITEM NO: 12 | SUBJECT MATTER: Environment Canterbury "On the ground action" Update |
| REPORT BY: Shelley Washington & Hannah Eastgate | DATE OF MEETING: 28 August 2014 |

PURPOSE

This report provides a brief update of work completed by Environment Canterbury's Resource Management Group under the Christchurch West Melton Zone Project Schedule for the period 25 July 2014 – 28 August 2014.

SUMMARY OF ACTIONS

Cashmere Catchment

- Shelley attended the Cashmere Stream Care Group's training day for volunteers undertaking clarity tube monitoring on Sunday 3 August. The event trained the volunteers, set out health and safety considerations and equipped the volunteers with their monitoring and safety gear. Immediately following this event, Group members were given a demonstration of a new flocculent by representatives of a private company. The Group is now liaising with local developers and ECAN to get this method trialed in a sediment pond.
- The Cashmere Stream Care Group has met several times this month to progress their clarity monitoring project, action plan implementation, communications projects and to prepare their presentation to the Zone Committee.
- The Cashmere Stream Care Group, with help from Shelley, have been in regular contact with Compliance & Monitoring staff members, Duncan Harvest and Stephen Gardner about the Group's observations of sediment and erosion control at Westmoreland Heights and Rock Hill housing development sites.

Estuary Ihutai

- Shelley attended the Avon-Heathcote Estuary Ihutai Trust meeting held on Wednesday 27 August and provided the Trust with relevant ECAN updates.
- A meeting on water quality for contact recreation in the Estuary of the Heathcote and Avon Rivers/Ihutai was held on 30 July with speakers from: Community and Public Health; Christchurch City Council; and Environment Canterbury. It was attended by representatives of a range of interested community groups. Avon-Heathcote Estuary Ihutai Trust initiated this meeting and invited other community groups.

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- Two community members, Paul Zaanan who is part of the surfing community in New Brighton, and Evan Smith of Avon-Otakaro Network and Avon-Heathcote Estuary Ihutai Trust, met with ECAN website advisor, Kris Couch, to provide some feedback on aspects of the recreational bathing information on the ECAN website that members of the community find confusing. Shelley helped set this meeting up.
- EOS Ecology staff volunteered for Avon-Heathcote Estuary Ihutai Trust by spending half a day planting at Charlesworth Wetland on 13 August.

Addington Brook Catchment project

- Lan Pham assisted with the scoping exercise in Addington Catchment.
- Hugh Thorpe and Ian Fox led a very positive meeting with the Senior Environmental Manager of Kiwirail to discuss their Matipo St site and the Addington Catchment project. From this, we will look at developing a programme of work around how we can work with Kiwirail and other local businesses to improve the functioning and amenity value of the ponds.
- The Zone Committee attended a field trip to the stormwater ponds at the Kiwirail site in Addington catchment to find out more about the history of the ponds and their role in stormwater management in the catchment.
- Catchment scoping in Addington is now complete, with over 500 businesses receiving the Addington Brook brochure and a short chat with one of our team about the project. Of these, around 100 will receive a full Pollution Prevention visit to discuss stormwater management due to the nature of their business. The Pollution Prevention team are now putting a plan together of how to prioritise these industrial visits.
- A poster on stormwater management in Addington catchment has been produced to give to businesses in Addington as part of the community awareness exercise.

Riccarton Stream Catchment project

- A communication plan for Riccarton has been put together by Jackie Curtis.
- The Pollution Prevention Team have begun scoping Riccarton catchment for sites that will require a full Pollution Prevention visit to discuss stormwater management.
- Hannah presented at a community meeting in West Riccarton to discuss the Zone Committee's focus on the catchment and discuss ideas with community members. This was a very positive meeting and the community members were engaged and enthusiastic about our focus on Riccarton Stream. Following this, Hannah attended a joint agency meeting to discuss putting together a community plan for West Riccarton and how the Zone Committee's work on the stream can link into this.
- Wharenui School have begun their Stormwater Education Programme, with a classroom lesson and a field trip to track their stormwater to Picton Reserve.

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Joint ECAN and CCC stormwater action team (SWAT)

- The first SWAT meeting was held, hosted by ECAN, with frontline staff from CCC and ECAN to discuss key issues.

Heathcote/Ōpāwaho Catchment

- Shelley, Hannah and Helen have been helping with ideas that Katie Nimmo, the Ōpāwaho/Heathcote Facebook Group and Spreydon-Heathcote Community Board are developing around guided walks and planting projects to reduce sediment inputs. These are two project ideas amongst several ideas focused on community engagement about this River.

Other Events

- Shelley and Helen attended a Styx River Source to Sea Field Trip on Sunday 17 August that the Styx Living Laboratory Trust board members (including Hugh Thorpe) held for the Shirley-Papanui Community Board and the Trust's volunteers. This was an interesting and informative event, show-casing the various projects the Trust has helped put in place throughout the length of this River.

NB: Helen Greenup is on a 15 month secondment from ECAN's compliance monitoring team and will be the Biodiversity Officer for the Christchurch-West Melton Zone during this time. Helen is also going to represent ECAN on the Styx Living Laboratory Trust board.

NEXT STEPS AND UPCOMING EVENTS

Cashmere Catchment

- Cashmere Stream Care Group will be finalising its newsletter and other communication tools, planning how to share their action plan with the wider community, undertaking clarity monitoring, and continue being "eyes and ears" of developments happening in the Catchment and communicating with ECAN and CCC staff about these. They will also have new members joining the Group and be implementing other parts of their action plan.
- An internal ECAN staff brainstorming workshop will be held to share ideas of "next steps" for Cashmere Stream and work on following up any requests that come from Zone Committee from 28 August meeting.

Estuary Ihutai

- The Annual General Meeting of the Avon-Heathcote Estuary Ihutai Trust will be held on Wednesday 3 September at St Faiths Hall in New Brighton at 7pm (light supper provided at 6:30pm). The Guest Speaker is Zac Cassels and he will speak about his "Vision of the future of the wellbeing of the Heathcote river adjacent to the Tannery in Woolston."

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- The next Avon-Heathcote Estuary Ihutai Trust meeting will be held on Wednesday 25 September.
- The Avon-Heathcote Estuary Ihutai Trust will be taking part in a regular 5-year programme review meeting that is required as part of the Healthy Estuary and Rivers of the City monitoring programme. Shelley is helping Lesley Bolton-Ritchie organise this.
- Representative of Avon-Heathcote Estuary Ihutai Trust, Evan Smith, and Paul Zanaan will be meeting with Lesley Bolton-Ritchie and Kimberley Robinson to further discuss ideas for improving how recreational bathing data is communicated on the ECAN website. Shelley is helping to organise this. This will be the second step in working towards possibly changing how information is presented by the next Summer bathing season.

Addington Brook Catchment

- A catchment field trip for the Zone Committee is being organised.
- Pollution Prevention visits will begin in Addington catchment.

Riccarton Stream Catchment

- Scoping of sites requiring a Pollution Prevention visit in Riccarton catchment will continue
- A catchment field trip for the Zone Committee is being organised
- Wharenui School students will design a poster to go on the back of a bus about stormwater management. Members of the Zone Committee will be invited to judge the winning entry.
- A stream clean up day will be held in Paeroa Reserve in mid-October.

DECISIONS REQUIRED

To receive this report.

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CLAUSE 13

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| AGENDA ITEM NO: 13 | SUBJECT MATTER: ZIP Analysis Project |
| REPORT: Christchurch West Melton Zone Committee | DATE OF MEETING: 28 August 2014 |
| REPORT BY: Matthew Ross, Facilitator | APPROX 5MINS |

PURPOSE

1. To note the draft purpose and scope for an Environment Canterbury project to analyse the Christchurch West Melton Zone Implementation Programme.
2. To highlight any points for further consideration by Environment Canterbury in finalising the project outline.

BACKGROUND

The Zone Committee has previously identified the need to analyse the Zone Implementation Programme against the Targets of the Canterbury Water Management Strategy (CWMS) to inform future actions in the Christchurch West Melton Zone.

Environment Canterbury's CWMS Team has a drafted a project outline for the analysis of the ZIP as follows:

Christchurch West Melton Zone Implementation Programme Analysis Project

Draft Project Purpose

- To analyse and report the in-principle contribution of Christchurch West Melton Zone Implementation Programme (ZIP) towards the Canterbury Water Management Strategy (CWMS) Targets for 2010, 2015 and 2020.
- To cross reference the CWMS Successful Stormwater Management Goals and Indicators for the Avon/Ōtākaro Catchment (Stormwater Goals) with the ZIP and CWMS Targets for 2020 and 2040.
- To identify key challenges and opportunities for the implementation of the ZIP.
- To identify key items that could be addressed in future iterations of the ZIP to optimise Christchurch West Melton Zone's contribution towards CWMS Targets for 2020 and 2040 (including specific reference to Stormwater Goals).

Draft Project Scope

- Producing a written report that:
 - Analyses and maps ZIP Key Principles, Key Issues, Priority Outcomes and Recommendations to CWMS Targets for 2010, 2015, 2020.
 - Analyses and maps Stormwater Goals to ZIP Key Principles, Key Issues, Priority Outcomes and Recommendations to CWMS Targets for 2020 and 2040.
 - Identifies:
 - Key challenges and opportunities for the implementation of the ZIP.
 - Recommended items for the Zone Committee to address in future iterations of the ZIP (including specific reference to Stormwater Goals).

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- Is informed by a Focus Group of key CWMS partners and delivery organisations as follows:
 - Focus Group membership to include organisations named in the ZIP against recommendations.
 - 3 Focus Group Workshops structured by ZIP Key Issues or CWMS Targets.
- Engagement with Christchurch West Melton Zone Committee on draft report.

It is anticipated that the final report would be available in early 2015.

The Zone Committee are asked to note the draft project outline and to highlight any points for further consideration by Environment Canterbury.