

# **WATER AND WASTEWATER COMMITTEE AGENDA**

**4 FEBRUARY 2011**

**AT 9AM**

**IN COMMITTEE ROOM 2, CIVIC OFFICES, 53 HEREFORD STREET**

**Committee:** Councillor Claudia Reid (Chair),  
Councillors Ngaire Button, Jimmy Chen, Aaron Keown and Chrissie Williams.

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City Environment**  
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1. APOLOGIES
2. ELECTION OF DEPUTY CHAIRPERSON
3. DEPUTATIONS BY APPOINTMENT

Nil.

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### 4. ESTABLISHMENT OF TERMS OF REFERENCE FOR WATER AND WASTEWATER COMMITTEE

<b>General Manager responsible:</b>	General Manager, City Environment Group, DDI 941 8608
<b>Officer responsible:</b>	General Manager, City Environment Group
<b>Author:</b>	Jane Parfitt, General Manager, City Environment Group

#### PURPOSE OF REPORT

1. That the Committee resolves to adopt the Terms of Reference for the Water and Wastewater Committee.

#### EXECUTIVE SUMMARY

2. At its 16 December 2010 meeting, the Council resolved to establish a Water and Wastewater Committee.
3. This report seeks the Committee's endorsement of the attached draft Terms of Reference (**Attachment 1**). The proposed Terms of Reference have been discussed with the Chairperson, Councillor Reid.

#### FINANCIAL IMPLICATIONS

4. Costs associated with holding meetings is provided for in the LTCCP.

#### LEGAL CONSIDERATIONS

5. Clause 30(1) of the 7<sup>th</sup> Schedule of the Local Government Act 2002 authorises the Council to appoint committees, subcommittees, and joint committees with other local authorities or public bodies.

#### STAFF RECOMMENDATION

That the Water and Wastewater Committee resolves to adopt the attached Terms of Reference for the Water and Wastewater Committee.

## Christchurch City Council

### Draft Terms of Reference Water and Wastewater Committee 2010-2013

#### **Purpose**

The purpose of the Water and Wastewater Committee is to provide advice to Council on water supply, surface water and wastewater policies, strategies and initiatives.

#### **Scope**

The Water and Wastewater Committee shall be responsible for reviewing and making recommendations to Council on the following strategies/plans (and any others specifically requested of it by Council):

- Water Supply
- Surface Water
- Wastewater

The Committee shall also make recommendations to Council on the following as requested:

- Akaroa Wastewater Working Party
- Canterbury Water Management Strategy
- ICMP / Global Consents

#### **Delegations**

The Water and Wastewater Committee shall operate the following delegations on behalf of Council:

- Nil.

#### **Bylaws**

The Water and Wastewater Committee shall monitor, review and make recommendations to Council on the following bylaws (in accordance with Council's agreed timetable):

- To be confirmed.

#### **Membership**

The Water and Wastewater Committee shall have the following membership:

- Councillor Reid (Chair)
- Councillor Button
- Councillor Chen
- Councillor Keown
- Councillor Williams.

4. 2. 2011

**5. OVERVIEW OF NATIONAL, REGIONAL AND LOCAL POLICY FRAMEWORK FOR WATER AND WASTEWATER**

Briefing papers will be available at the meeting.

**STAFF RECOMMENDATION**

For information.

## 6. WASTEWATER STRATEGY SCOPE

<b>General Manager responsible:</b>	General Manager, City Environment Group, DDI 941 8608
<b>Officer responsible:</b>	Programme Manager, Healthy Environment
<b>Author:</b>	Diane Shelander, Senior Policy Analyst

**PURPOSE OF REPORT**

1. The purpose of this report is to advise the Committee of the scope of the Wastewater Strategy, which is being developed starting this financial year. The report also provides information on the proposed timeframe for the development of the strategy and milestones that will be reported to the Committee.

**EXECUTIVE SUMMARY**

2. In recent years the Council has developed a suite of Healthy Environment Strategies to assist in the long-term planning and sustainable management of Christchurch's natural resources. The following strategies have been developed:
  - Biodiversity Strategy 2008 – 2035
  - Water Supply Strategy 2009 – 2039
  - Surface Water Strategy 2009 – 2039
  - Public Open Space Strategy 2010 - 2040
  - Climate Smart Strategy 2010 - 2025
3. Work has begun on the development of a Wastewater Strategy, which will complete the list of strategies currently proposed for the Healthy Environments Strategies Programme.
4. Key drivers for the development of a Wastewater Strategy are:
  - The wastewater system in Christchurch is a robust system, but as the city grows it is likely that the Christchurch Wastewater Reticulation and Treatment facilities may not have sufficient capacity to manage the expected volume of wastewater.
  - The City has developed an asset management plan for managing wastewater but lacks an overarching strategy.
  - The Council adopted its Water Supply Strategy in June 2009 and its Surface Water Strategy in November 2009. A Wastewater Strategy comprises the third part of a trilogy for the sustainable management of public water resources.
5. The proposed scope of the Wastewater Strategy is:
  - (a) To provide Council's vision, strategic direction and desired outcomes for sustainably managing the City's public wastewater system over the next 30 years. This work will be informed by community input.
  - (b) To establish the key steps and methods for implementing the strategy, that will recognise not only Council's responsibilities, but also community and private sector related responsibilities.
  - (c) To promote long-term integration of water resource management by taking into account the other Healthy Environment Strategies.
  - (d) To monitor, review and report progress towards achieving the strategy outcomes
  - (e) To inform future Long Term Plans relating to capital and operational investment and expenditure
  - (f) To encompass within the Christchurch City Council boundaries, the resources managed by Christchurch City Council for wastewater reticulation, treatment and disposal purposes.

6 Cont'd

- (g) To include all Council-operated wastewater treatment systems within the Council's territorial boundaries.
  - (h) To include the sustainable management of biosolids and options for the use of this material, and potential re-use of treated effluent.
  - (i) To include management of trade waste entering the wastewater system.
  - (j) To cover a minimum 30 year period and to be regularly reviewed to take into account the present and future social, economic, environmental and cultural aspirations of the community and to align outcomes with the Greater Christchurch Urban Development Strategy, relevant Long Term Plan outcomes and other key strategies. Consideration will need to be given to securing and/or identifying options for managing increased volumes of wastewater as the population grows.
  - (k) To include consideration of effects of stormwater events on the wastewater system, and the influence of wastewater discharge events on the water quality of the receiving environment.
  - (l) To develop a position with respect to extension of reticulated services in currently unserved areas (e.g., Takamatua and Robertsons Bay), and possible alternative treatment.
  - (m) To include consideration of a policy with respect to the condition of private onsite septic systems and the impact on groundwater.
  - (n) To include network asset condition and the integrity of the system in the context of a life of assets/renewals programme.
  - (o) To recognise potential conflicts between wastewater management and the management of other water resources utilised by Christchurch City Council the wider community.
  - (p) To gain community and private sector support and commitment for integrated management through participative and innovative approaches.
6. It is anticipated that the first phase in the development of the Wastewater Strategy, the preparation of a Situational Analysis, will be completed by September 2011. The second phase will be the preparation of an Issues and Options Report, which will subsequently form the basis for a draft strategy. Public consultation on the draft strategy will follow. A final Wastewater Strategy is expected to be completed in mid-2013.
7. The Committee will be provided with a copy of the draft Situational Analysis report when completed. It is proposed that the Committee provide input into the preparation of an Issues and Options Report and Strategy documents via workshops and reports.

**FINANCIAL IMPLICATIONS**

8. The Wastewater Strategy project forms part of the Strategy and Planning Group's work programme approved by Council in July 2010 and is covered by existing LTP budgets.

**Do the Recommendations of this Report Align with 2009-19 LTCCP budgets?**

9. Yes.

**LEGAL CONSIDERATIONS**

10. None.

**Have you considered the legal implications of the issue under consideration?**

11. None.

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**ALIGNMENT WITH LTCCP AND ACTIVITY MANAGEMENT PLANS**

12. Aligns with 2009 – 19 LTCCP, Activity 1.0: City and Community Long-Term Policy and Planning activity management plan, Activity 11.0 Wastewater Collection activity management plan and Activity 11.1 Wastewater Treatment and Disposal activity management plan.

**Do the recommendations of this report support a level of service or project in the 2009-19 LTCCP?**

13. As above.

**ALIGNMENT WITH STRATEGIES**

14. The Wastewater Strategy aligns with the Greater Christchurch Urban Development Strategy and will complement the existing Healthy Environment Strategies and Council's Sustainability Policy.

**Do the recommendations align with the Council's strategies?**

15. Yes.

**CONSULTATION FULFILMENT**

16. Not applicable.

**STAFF RECOMMENDATION**

It is recommended that the Committee note the proposed scope of the Wastewater Strategy as set out in section 5 of this report.



## 7. CANTERBURY WATER MANAGEMENT STRATEGY: OVERVIEW, ESTABLISHMENT OF TWO ZONE COMMITTEES, AND CHANGE IN COUNCIL REPRESENTATION ON THE SELWYN - WAIHORA ZONE COMMITTEE

<b>General Managers responsible:</b>	General Manager, City Environment Group, DDI 941-8608
<b>Officer responsible:</b>	Programme Manager, Healthy Environment
<b>Author:</b>	Peter Kingsbury, Principal Advisor - Natural Resources

### PURPOSE OF REPORT

1. The purpose of this report is to:
  - (i) Provide the Committee with a brief overview of the Canterbury Water Management Strategy (the Strategy).
  - (ii) Outline the timetable for the establishment of the Banks Peninsula and the Christchurch - West Melton Zone Committees.
  - (iii) Request a change in Christchurch City Council (the Council) representation on the Selwyn - Waihora Zone Committee.

### EXECUTIVE SUMMARY

#### I - Overview of the Canterbury Water Management Strategy

2. The Strategy was developed by Environment Canterbury (ECan) following wide consultation across the region. It establishes a set of fundamental principles, priorities and targets that provide guidance and a framework for integrated water management.
3. To implement the Strategy, ECan has formed the Canterbury Water Management Strategy Regional Water Management Committee (the 'regional committee') and divided the region into ten zones. Each zone will have a Zone Committee comprising regional council, district council, iwi and community representatives. The ten zone committees are in various stages of being established. The zone committees will work collaboratively to develop water management implementation programmes, taking into account programmes in other zones, as well as work addressed by the regional committee.
4. The Council has direct interest in three zone committees: Selwyn - Waihora (operational); Banks Peninsula; and Christchurch - West Melton.
5. Significant further detailed information on the Strategy can be found at <http://www.canterburywater.org.nz/>

#### II - Establishment of Banks Peninsula and Christchurch - West Melton Zone Committees

6. In July 2010 Council appointed representatives to four Canterbury Water Management Strategy Committees: Councillor Williams was appointed to the Regional Committee, Councillor Buck was appointed to the Christchurch - West Melton Zone Committee, and Councillor Reid was appointed to both the Selwyn - Waihora and Banks Peninsula Zone Committees. Prior to the establishment of the Zone Committees for Banks Peninsula and Christchurch - West Melton the Council appointees have acted as interim representatives for these committees on the Regional Committee.
7. ECan is to establish a Selection Working Group for community representation on the Banks Peninsula and Christchurch - West Melton zone committees by March 2011. Following the assessment of applications, membership is expected to be confirmed in April 2011 and the two zone committees established shortly after this.

**III - Proposed change in Council representation on the Selwyn - Waihora Zone Committee**

8. Councillor Claudia Reid is the Council's representative on the Selwyn - Waihora Zone Committee. Due to other commitments, including her current responsibilities on the regional committee and her future potential involvement on the Banks Peninsula Zone Committee, Councillor Reid has suggested that she be replaced by Stewart Miller (member of the Akaroa-Wairewa Community Board) as the Council representative on the Selwyn - Waihora Zone Committee. Mr Miller has confirmed his interest in being the Council's representative on the zone committee and a recommendation to this effect is presented in this report.

**FINANCIAL IMPLICATIONS**

9. There are no changes to the financial implications for the Council in approving the replacement of Councillor Claudia Reid with Mr Stewart Miller on the Selwyn - Waihora Zone Committee.

Other financial matters relating to the Selwyn - Waihora Zone Committee were presented to the Council at the 22 July 2010 Council meeting.

**Do the Recommendations of this Report Align with 2009-19 LTCCP budgets?**

10. Yes. The cost of managing the appointment of members to the committees is included in existing budgets.

**LEGAL CONSIDERATIONS**

11. Legal matters on the establishment and appointments of Councillors to zone committees (and the regional committee) were reported to the Council on 22 July 2010, and include:
- (a) Existing powers and/or new legislation will be used to ensure the implementation programmes are given appropriate legal status under the Local Government Act 2002 and the Resource Management Act 1991. The regional and zone committees will be joint committees of ECan and the relevant district councils. The committees will operate in accordance with Local Government Act powers and terms of reference drawn up by their parent councils. It is intended that decisions will be made on a consensus basis rather than by majority voting.
  - (b) The Canterbury Water Management Strategy is now recognised in the ECan Act 2010.
  - (c) The ECan Act 2010 provides that the Commissioners assume all the responsibilities of the elected representatives under the Local Government Act 2002. This means that as currently proposed, an Environment Canterbury Commissioner will be required to be a member of each joint zone committee.

**Have you considered the legal implications of the issue under consideration?**

12. Yes. Refer above.

**ALIGNMENT WITH LTCCP AND ACTIVITY MANAGEMENT PLANS**

13. The establishment and operation of Canterbury Water Management Committees will support a wide range of LTCCP environmental, governance, prosperity, health and recreational community outcomes. Of particular significance is the Council's responsibility of providing a clean and reliable water supply.

**Do the recommendations of this report support a level of service or project in the 2009-19 LTCCP?**

14. Yes. The establishment and operation of Canterbury Water Management Committees will support levels of service under the areas of water supply including: "A reliable supply of water that is safe to drink" (page 60), waterways and drainage (page 132), economic development (page 144), and city development (page 188).

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**ALIGNMENT WITH STRATEGIES**

15. The establishment and operation of Canterbury Water Management Committees is consistent with the Council's Surface Water Strategy and Water Supply Strategy.

**Do the recommendations align with the Council's strategies?**

16. As above.

**CONSULTATION FULFILMENT**

17. Not required.

**STAFF RECOMMENDATION**

That the Water and Wastewater Committee recommend to the Council that Mr Stewart Miller be appointed as the Council representative on the Selwyn-Waihora Zone Committee to replace Councillor Claudia Reid.

**BACKGROUND****Overview of the Canterbury Water Management Strategy**

18. Following several years of collaborative work by the Mayoral Forum, a steering group, ECan and the region's ten territorial authorities, the Strategy is in the early stages of being implemented.
19. The Strategy identifies Canterbury's water resources as important to the region and to New Zealand. Lakes, rivers, streams and aquifers are used for a wide range of purposes including drinking water, agriculture, electricity generation, customary use and recreation. The desired outcome of the Strategy is:
 

*"To enable present and future generations to gain the greatest social, economic, recreational and cultural benefits from our water resources within an environmentally sustainable framework".*
20. The Strategy has a set of fundamental principles, priorities and targets that provide guidance and a framework for integrated water management. The principles (sustainable management, regional approach and Tangata whenua) establish clear balanced objectives that the Strategy will achieve to meet the desired outcome. The Strategy's first order priorities are the environment, customary use, community supplies and stockwater. Second order priorities are irrigation, renewable energy generation, and recreation and amenity. Targets include a set of goals that apply from 2010 and reflect the fundamental principles. Targets have been set for 2015, 2020 and 2040. Further detailed information on the targets can be found at <http://www.canterburywater.org.nz/>
21. To implement the Strategy, ECan has established a committee called the regional committee to take an overview of water issues for the region and deal with cross-zone issues.
22. The regional committee comprises about 25 members selected from ECan (2), territorial authority appointments from each of north, mid and south Canterbury (3), the Council (1), Te Runanga o Ngai Tahu (1), runanga appointments from each of north, mid and south Canterbury (3), the chairs, or another member, of each zone committee (10), including representatives from a number of key sectors, these being, fisheries, energy, environmental/biodiversity, primary production/agriculture, recreation and regional development including tourism (6).
23. In addition to the regional committee, ten joint committees ('zone committees') are currently being formed to address local issues within each zone. Five of the ten zone committees have been formed. These are the Selwyn - Waihora, Waimakariri, Lower Waitaki-South Coastal Canterbury, Hurunui -Waiiau and Ashburton Zone Committees. Three zones are of direct significance to Christchurch, the Banks Peninsula Zone (completely within Christchurch City), Christchurch - West Melton Zone (predominantly within Christchurch City) and the Selwyn - Waihora Zone.
24. The Selwyn - Waihora Zone Committee was established in 2010 as a joint committee of ECan, Selwyn District Council and Christchurch City Council. The Selwyn - Waihora Zone includes that part of Lake Ellesmere/Te Waihora within the Christchurch City boundary. This is a small but significant part of Christchurch City in terms of water resource and water management matters.
25. The purpose of the 'zone committees', which report to their constituent territorial local authorities and ECan, is to develop strategies, tactics and activities to give effect to the fundamental principles and targets of the Strategy within each zone. The focus for the regional committee which reports to ECan, is on infrastructure associated with managing large scale storage and the transfer of water across Canterbury, along with related issues such as energy generation and region-level biodiversity issues. The regional committee is also tasked with co-ordinating the development of a Regional Implementation Programme that gives effect to the Strategy and takes into account the work of the zone committees. The regional committee is funded by a regional rate.

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26. Zone committees have the following general membership:
- (a) One member appointed by ECan who is an "elected member" (to initially be filled by a commissioner under the Environment Canterbury (Temporary Commissioners and Improved Water Management) Act 2010).
  - (b) One member appointed by each territorial authority operating within the zone boundary who is an elected member (the Council and Selwyn District Council both operate within the zone boundaries for the Selwyn - Waihora, and Christchurch - West Melton zones).
  - (c) One member appointed by each Runanga with interests in the zone.
  - (d) Between four and six members appointed from the community and who come from a range of backgrounds and interests within the community.
27. The zone committees are required to work collaboratively to develop water management implementation programmes, taking into account programmes in other zones, as well as work addressed by the regional committee. Council resolutions will be required to approve and formalise committee implementation programmes. The zone committees operate as joint committees of the regional council and the local territorial authority. The regional committee is a committee of the regional council (to meet requirements of the Local Government Act), and will operate to include all local authorities in Canterbury. Membership of committees is by appointment. Councils must advertise for expressions of interest from community members and then conduct an agreed selection process for recommendation back to the councils involved.
28. The regional committee and zone committees will exist for three years, after which new committees will be formed. Members will be paid travel expenses as well as an honorarium. An appointed member will be paid \$2,000/year, the deputy chair \$3,000/year, and the chair \$5,000/year. Staff or elected members of local bodies are not eligible for remuneration. Each committee will meet at least four times each year, with workshops and additional meetings as required and reasonable travel expenses reimbursed. Proxies or alternates are not permitted. Any committee may co-opt such other expert knowledge or advisory (non-voting) as it deems necessary to ensure it is able to achieve its purpose.
29. In July 2010 the Council appointed Councillor Claudia Reid as the Christchurch City Council member to sit on the Selwyn - Waihora Zone Committee, a 'permanent' appointment. Three Councillors were also appointed to sit on the regional committee, Councillor Chrissie Williams to represent the Council (a 'permanent' appointment), Councillor Sally Buck to represent the Christchurch - West Melton Zone Committee (an interim appointment), and Councillor Claudia Reid to represent the Banks Peninsula Zone Committee (an interim appointment). Following the establishment of the Christchurch - West Melton and Banks Peninsula Zone Committees, a new appointment process will need to be carried out to appoint permanent Council members to the two zone committees.

**8. INTEGRATED CATCHMENT MANAGEMENT PLAN OVERVIEW AND PROGRAMME OF WORK**

<b>General Manager responsible:</b>	General Manager, City Environment Group, DDI 941 8608
<b>Officer responsible:</b>	Programme Manager - Healthy Environment
<b>Author:</b>	Clive Appleton TL Natural Environment

**PURPOSE OF REPORT**

1. The purpose of this report is to provide the Committee with an overview of Integrated Catchment Management Plans (ICMPs) and the future programme of work for developing ICMPs for Christchurch.

**EXECUTIVE SUMMARY****I – Background**

2. The purpose of an ICMP is to state how a surface water catchment will be managed, protected, and if possible enhanced, in the face of existing and anticipated future development and land use change.
3. Surface water is one of Christchurch's most valuable resource. To safeguard this resource for future generations, the City Council and Environment Canterbury have agreed to work together to manage stormwater in a more integrated and effective way. A Protocol for Stormwater Management has been prepared and provides agreed principles and practices to guide the development of ICMPs throughout Christchurch.
4. One of the key principles for preparing ICMPs is to integrate stormwater management planning with land use planning, this is particularly important for greenfield developments. This means that ICMPs are integral to the development of associated Area Plans and the design of blue network infrastructure. The Styx ICMP and Belfast Area Plan are the most recent example of this.
5. ICMPs take a 'multi-value' approach, giving full consideration to ecology (in-stream, riparian and terrestrial), landscape, recreation, heritage and cultural values, as well as water quality and quantity. Each ICMP forms the foundation of an application to Environment Canterbury for catchment consent to discharge stormwater.
6. Under the Regional Council's Natural Resources Regional Plan (NRRP) a resource consent is required for the discharge of stormwater. The provisions of the NRRP require the City Council to prepare stormwater management plans in accordance with Section 4.7.3.2 of the Water Quality Chapter (Attachment 1), for the area from which stormwater is collected and conveyed to the point(s) of discharge that shall form part of the discharge permit application.
7. ICMPs and their associated consents, will help meet regional and local policy and planning requirements and will promote the integrated management of land and water resources throughout Christchurch. This approach will also dovetail into strategic infrastructure planning and management through processes such as Activity Management Planning and Long Term Council Community Planning.
8. ICMPs will enable the City Council to take on greater responsibility and control of surface water management. This allows for activities undertaken by the City Council to be better integrated and will lead to a greater level of understanding for the management of surface water issues.

**II - Programme for the Development of ICMPs**

9. Developing ICMPs is resource intensive so their preparation has been staged over a number of years. The South-West ICMP has been completed and an application lodged for a catchment consent. The Styx ICMP is near completion; a workshop detailing outcomes from the ICMP will be held with this committee in March. Work has also commenced on an ICMP for the Lower Heathcote The priority and general order in which the rest of the ICMPs will be developed is shown in Table 1 below.

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10. The priority for ICMP preparation is based on an assessment of catchment areas against criteria set in the City Council's Surface Water Strategy in response to feedback during public consultation on the Strategy. Location of ICMP boundaries are shown in Attachment 2.

<b>Short-term (2009-2012)</b>	<b>Medium-term (2013-2019)</b>	<b>Long-term (2019+)</b>
<ul style="list-style-type: none"> <li>• South-west</li> <li>• Styx</li> <li>• Lower Heathcote</li> </ul>	<ul style="list-style-type: none"> <li>• Avon River</li> <li>• Estuary</li> <li>• Lyttelton</li> <li>• Akaroa</li> <li>• Coastal</li> </ul>	<ul style="list-style-type: none"> <li>• Sumner/Redcliffs</li> <li>• Lakes</li> <li>• Southern Bays</li> <li>• North &amp; Eastern Bays</li> <li>• Outer Christchurch</li> </ul>

**FINANCIAL IMPLICATIONS**

11. The ICMP forms part of the Strategy and Planning Group's work programme approved by Council in July 2010 and is covered by existing LTP budgets.

**Do the Recommendations of this Report Align with 2009-19 LTCCP budgets?**

12. Yes.

**LEGAL CONSIDERATIONS**

13. The discharge of stormwater onto or into land or into a river, lake or artificial water course requires a resource consent. Proposed Rule WQL8 (as amended by decisions) of Environment Canterbury's Natural Resources Regional Plan requires that a stormwater management plan shall form part of the discharge permit application.

**Have you considered the legal implications of the issue under consideration?**

14. The Council's programme of ICMPs will provide stormwater management plans for all of the Christchurch area.

**ALIGNMENT WITH LTCCP AND ACTIVITY MANAGEMENT PLANS**

15. Aligns with 2009 – 19 LTCCP, Activity 6.5: Waterways and Land Drainage and Activity 1.0: City and Community Long-Term Policy and Planning.

**Do the recommendations of this report support a level of service or project in the 2009-19 LTCCP?**

16. As above.

**ALIGNMENT WITH STRATEGIES**

17. The ICMP programme aligns with the Greater Christchurch Urban Development Strategy and fits with the Surface Water Strategy adopted by Council in November 2009.

**Do the recommendations align with the Council's strategies?**

18. Yes.

**CONSULTATION FULFILMENT**

19. Not applicable.

**STAFF RECOMMENDATION**

That the Committee note the Integrated Catchment Management Plan programme of work.

**NRRP – Chapter 4 Water Quality****Section 4.7 - Information to be provided with resource consent applications****4.7.3.2 Management plan for a stormwater discharge under Regional Rules WQL7 or WQL55**

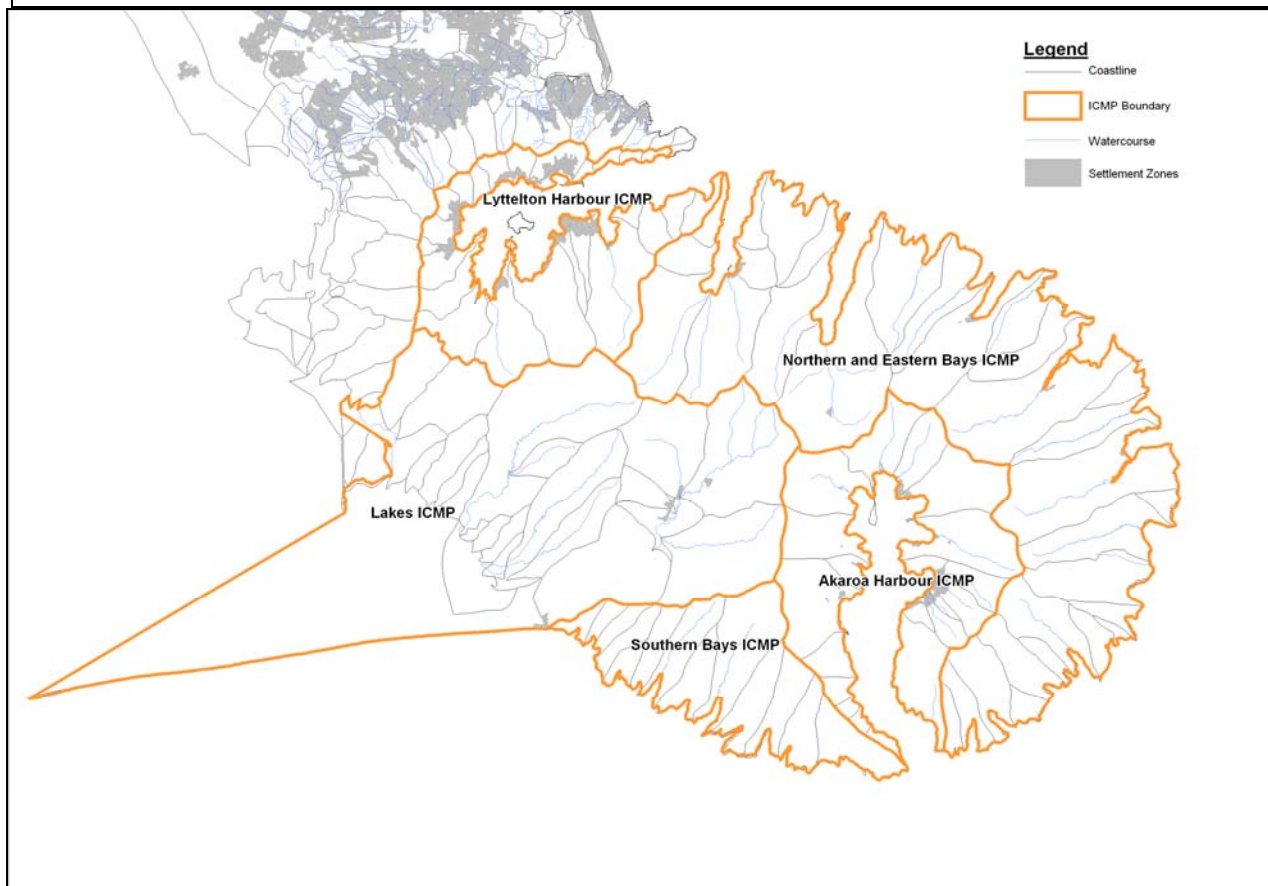
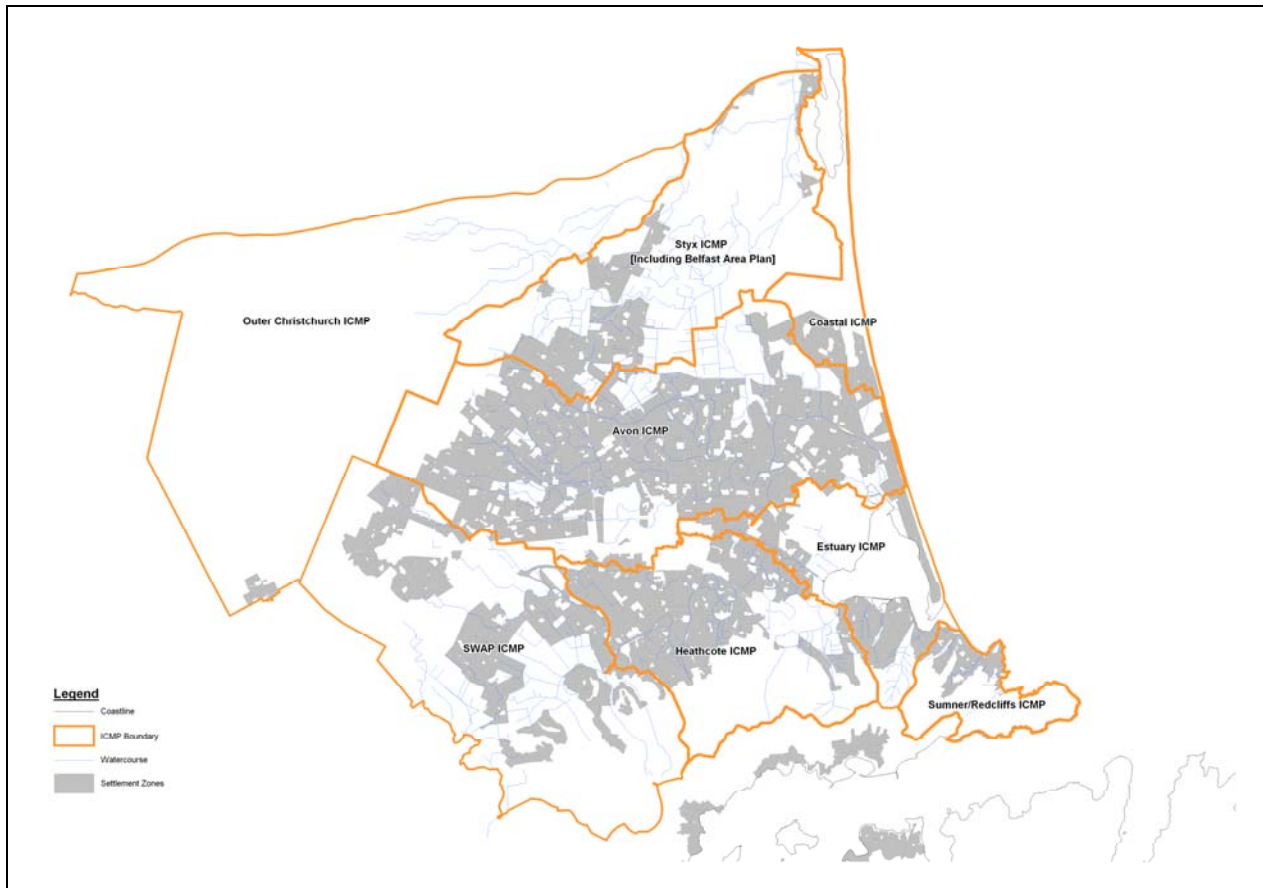
In addition to the general information outlined in Sections 1.3.4, 4.7.1. and 4.7.2, where relevant, an application for a stormwater discharge under Regional Rules WQL7 or WQL 55 shall include a management plan which contains the following information:

- a. Identification [of] the land uses in the catchment or stormwater collection area, including an assessment of possible future land use change, the establishment of new activities including activities listed in Schedule WQL3, existing and potential sources of contaminants and stormwater flow.
- b. A description of the stormwater network system, capacity of the system to meet current and future needs, and the level of service for the network.
- c. For discharges onto or into land, the results of a site assessment to characterise the physical and chemical properties of the soil and subsoil layers where the discharge will occur and their suitability for stormwater disposal. This assessment should include an investigation of the infiltration capacity, including any limitations of the soil and subsoil layers to absorb the discharge.
- d. A description of the range of possible measures to avoid, remedy or mitigate adverse effects of the discharge(s), an evaluation of the effectiveness of these measures, and the reasons for selecting the measures proposed:
  - (i) to reduce the potential for adverse effects on: the water quality of groundwater or surface water, aquatic ecosystems and instream values, changes to channel morphology, people and communities from flooding, and other existing uses of surface and groundwater from:
    - (1) existing and proposed stormwater discharges in the catchment; and
    - (2) a change to urban land use in a catchment that is largely undeveloped. The measures should include the protection, use, and enhancement of riparian vegetation, buffer zones and wetlands.
  - (ii) to minimise adverse hydrological changes to the existing flow or level regime, including base flows, lake and groundwater levels, caused by the discharge(s) and its cumulative effect with other discharges. The assessment should as far possible be based on actual rainfall data from a site or sites in the vicinity of the discharge;
  - (iii) to reduce the volume and concentration of contaminants and water entering the network system, including the use of low impact designs or structures, community education, and non-structural methods;
  - (iv) to avoid or minimise the accumulation of toxic and persistent contaminants in the soil or subsoil layers as a result of a discharge to land;
  - (v) to treat contaminated stormwater to reduce volume or concentration of hazardous substances or prevent the inputs of hazardous substances into the network system from a site where an activity listed in Schedule WQL 3 is occurring, including measures to contain and respond to spills and leaks.



- e. A description of the programme of works, including setting priorities to implement the management plan, including maintenance of the network, source control measures and structures. Any programme beyond three years will be indicative.
- f. A description of the monitoring programme to assess the effectiveness of the programme of works and maintenance, and the effects of the discharges from the networks on the receiving environment. This will include a review the results of the monitoring programme and to identify situations or circumstances where a management response or the work or maintenance programme should be adapted to improve the effectiveness of the implementation of the plan and to reduce adverse effects on the environment.

### Christchurch City Council ICMP Boundaries



4. 2. 2011

**9. UPDATE ON POTENTIAL WATER RESTRICTIONS**

Mark Christison, Unit Manager City Water and Waste, will update the Committee on the potential need for water restrictions.

**STAFF RECOMMENDATION**

For information and discussion.