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## Christchurch West Melton Water Management Zone Committee AGENDA

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### Notice of Meeting:

A meeting of the Christchurch West Melton Water Management Zone Committee will be held on:

**Date:** Thursday 26 January 2017  
**Time:** 6.00pm  
**Venue:** Environment Canterbury,  
200 Tuam Street

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### Membership

Chairperson	Arapata Reuben Tuahuriri Runanga
Deputy	Suzanne Furkert Community Representative
Chairperson	Councillor Pauline Cotter Christchurch City Council
Members	Councillor Debra Hasson Selwyn District Council
	Tom Lambie Environment Canterbury
	Herewini Banks Te Hapu o Ngati Wheke/Rapaki
	Les Wanhalla Te Taumutu Runanga
	Andrew Congalton Community Representative
	Chris Kelliher Community Representative
	Robert Wynn-Williams Community Representative
	Kevin Brown Community Representative
	Lance Kenyon Community Representative

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20 January 2017

**Principal Advisor**  
Diane Shelander  
Senior Policy Analyst  
Tel: 941 8304  
Christchurch City Council

**Zone Facilitator**  
Lesley Woudberg  
Tel: 027 706 4273  
Environment Canterbury

**Committee Advisor**  
Liz Ryley  
Tel: 941 8153  
Christchurch City Council

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## **1. Apologies**

At the close of the agenda no apologies had been received.

## **2. Confirmation of Previous Minutes**

That the minutes of the Christchurch West Melton Water Management Zone Committee meeting held on [Thursday, 24 November 2016](#) be confirmed (refer page 5).

## **3. Matters Arising from the Minutes**

## **4. Deputations by Appointment**

There were no deputations by appointment at the time the agenda was prepared.

## **5. Identification of Urgent Items**

## **6. Identification of General Public Contributions**



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## Christchurch West Melton Water Management Zone Committee OPEN MINUTES

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**Date:** Thursday 24 November 2016  
**Time:** 6.05pm  
**Venue:** Environment Canterbury,  
200 Tuam Street

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### Present

Chairperson	Arapata Reuben Tuahuriri Runanga
Deputy	Suzanne Furkert Community Representative
Chairperson	Councillor Pauline Cotter Christchurch City Council
Members	Councillor Debra Hasson Selwyn District Council
	Councillor Tom Lambie Environment Canterbury
	Herewini Banks Te Hapu o Ngati Wheke/Rapaki
	Les Wanhalla Te Taumutu Runanga
	Andrew Congalton Community Representative
	Robert Wynn-Williams Community Representative
	Kevin Brown Community Representative
	Lance Kenyon Community Representative

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24 November 2016

**Principal Advisor**  
Diane Shelander  
Senior Policy Analyst  
Tel: 941 8304  
Christchurch City Council

**Zone Facilitator**  
Lesley Woudberg  
Tel: 027 706 4273  
Environment Canterbury

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The agenda was dealt with in the following order.

Peter Ramsden opened the meeting with a karakia.

A round of introductions was undertaken.

## Apologies

### **Committee Resolved CWZC/2016/00047**

It was resolved on the motion of Member Reuben, seconded by Member Furkert that the apology from Chris Kelliher be accepted.

Member Reuben/Member Furkert

Carried

## **2. Confirmation of Previous Minutes**

### **Committee Resolved CWZC/2016/00048**

#### **Committee Decision**

That the minutes of the Christchurch West Melton Water Management Zone Committee meeting held on Thursday, 22 September 2016 be received.

Member Kenyon/Member Wynn-Williams

Carried

## **3. Matters Arising from the Minutes**

The following matters were noted:

- Waterway bank cutting – this matter will be discussed at Item 13.
- Compliance priorities, expanding monitoring to any earthworks on loess soils will be undertaken.
- Joint CCC and ECan Water Forum – 16 December 2016 – Lesley to follow up on whether this is a confirmed meeting. Note that the work programme of the Forum needs to be clearly outlined.
- Identify some of the bullet points recorded under item 8 Water Conservation for an awareness campaign through Communications and Engagement.
- ECan and CCC are working on a campaign launch on 4 December 2016 so members should have data and positive stories available, and links to various Facebook pages.

## **4. Deputations by Appointment**

There were no deputations by appointment.

## **5. Identification of Urgent Items**

Nil.

## **6. Identification of General Public Contributions**

Nil.

## 7. Confirmation of Previous Minutes

The minutes of the 22 September 2016 meeting were received at item 2 above.

## 8. Urban Contaminants Working Group - Progress Report

Andrew Congalton presented his report and introduced Jenny Watters, Pollution Prevention Officer, ECan, Tom Cochrane, University of Canterbury and Aisling O'Sullivan who updated the Committee on the Addington Brook priority catchment project and MEDUSA findings. Andrew departed the meeting following the introduction. Presentations are on the Zone Committee's website.

### Committee Resolved CWZC/2016/00049

#### Joint Committee Decision

That the Christchurch West Melton Water Management Zone Committee:

- Welcomes the progress made by the urban contaminants working group.
- Welcomes the report and presentation on the Modelled Estimates of Discharges for urban Stormwater Assessment (MEDUSA).
- Notes the further research that has been undertaken on copper free brake pads.
- Supports the next steps on copper free brake pads proposed.

Councillor Cotter/Member Brown

Carried

## 9. Immediate Steps Biodiversity Project Proposals

Lance Kenyon reported on the project assessments undertaken and thanked Lesley Woudberg, Paul Hulse and Helen Greenep for their work on the applications.

The matter of the Selwyn District water races was raised. In discussion later in the meeting it was agreed that the Committee should send an invitation to the Water Race Committee to attend the Zone Committee meeting in January 2017 to provide the Committee with an update on the water races.

A correction has to be made to the table on page 35 of the agenda, Wairarapa Stream Sediment Removal project, the amount in the recommendation should read \$3,560.

### Committee Resolved CWZC/2016/00050

#### Joint Committee Decision

That the Christchurch West Melton Water Management Zone Committee agree to fund:

- a. Intake Road Dryland Protection Project to the sum of \$9,855
- b. Calders Reserve bird roost to the sum of \$1,000

- c. Cashmere Stream Enhancement Stage Two to the sum of \$25,000
- d. Huntsbury Gully to the sum of \$10,015
- e. Ka Putahi Creek Floodplain and Forest Establishment to the sum of \$25,750
- f. Wairarapa Stream Sediment Removal top up to the sum of \$3,560
- g. Otukaikino Stream Projects Maintenance top-up to the sum of \$11,520

Member Kenyon/Councillor Cotter

Carried

## 10. Update Working Groups - 24 November 2016

Updates were provided by the Working Groups and the following points noted:

- Rural Catchment Working Group – a Redmund Spur visit is to be arranged
- Groundwater/Drylands Working Group – a farming field trip is taking place on 2 December 2016. Details are to be forwarded to Christchurch City Council Councillors to decide if they wish to join that trip. Actions are to be developed for the Zone Committee to champion in response to Professor Jenkins' paper, the Golder report and field trip.
- Communication and Engagement Working Group – Key points will be identified from the Zone Committee's 22 October 2016 workshop and from the Addington Brook presentation for communication in the next few weeks.
- An invitation has been received to celebrate the Whaka Inaka, on 14 December 2016 at The Tannery.

Discussion was held about copper free brake pads, and the need for clarification on what is in existing brake pads. A simple message needs to be distributed that all metallic and semi-metallic brake pads are high in copper. Next steps were proposed as:

- Education and communication with brake pad suppliers and installers;
- Lobby for better labelling on brake pads;
- Create a table of OEM brake pads that are copper free to give to installers.

### Committee Resolved CWZC/2016/00051

#### Joint Committee Decision

That the Christchurch West Melton Water Management Zone Committee:

1. Receive the report.
2. Provides feedback on the activities of each Working Group.
3. Provides guidance on the next steps proposed by each Working Group, as discussed.

Councillor Cotter/Councillor Hasson

Carried

## 11. Five Year Integrated Work Programme - Quarterly Report

The report was taken as read, and members were asked to email Paul Hulse with any feedback on the work programme. If feedback is received Paul will report this to the next meeting.

### Committee Resolved CWZC/2016/00052

### Joint Committee Decision

That the Christchurch West Melton Water Management Zone Committee:

1. Receives the report on the Five Year Integrated Work Programme.

Member Reuben/Councillor Hasson

Carried

## 12. Red Zone - Eden Project

Discussion was held about the “red zone” and the various proposals. It was suggested that an invitation to Regenerate Christchurch and Otakaro Limited to the next Zone Committee meeting be made to provide an overview of what is happening in the area.

### Committee Resolved CWZC/2016/00053

### Joint Committee Decision

That the Christchurch West Melton Water Management Zone Committee:

1. Receive the verbal report on the Red Zone – Eden Project.

Member Reuben/Councillor Cotter

Carried

## 13. Zone Facilitator Update

### Committee Resolved CWZC/2016/00054

### Joint Committee Decision

That the Christchurch West Melton Water Management Zone Committee:

1. Notes the upcoming events
2. Notes the proposed meeting dates for 2017
3. Provides feedback on the outline of the Zone Committee Annual Report 2016
4. Welcomes the decision of Christchurch City Council to undertake a trial to cease grass cutting along river banks during inanga spawning times.
5. Provides ideas on how the Zone Committee can help raise awareness of why the grass along river banks will not be cut in summer:
  - a. Inform people about the inanga spawning sites through the councils’ social media
  - b. Check that signage on waterbanks is in highly populated areas and includes information on future plantings
  - c. Arrange for the school children to present to a Christchurch City Council meeting.

Member Wanhalla/Councillor Cotter

Carried

Peter Ramsden closed the meeting with a Karakia.

Meeting concluded at 8.23pm.

CONFIRMED THIS (Date) DAY OF (Month)

ARAPATA REUBEN  
CHAIRPERSON



## 7. Election of Chair, Deputy Chair and Regional Representative

Reference: 17/56350

Contact: Lesley Woudberg Lesley.woudberg@ecan.govt.nz 027 706 4273

### 1. Purpose of Report

1.1 This report is to review the role and function of the Zone Committee, and to review and amend if needed our ways of working, such as:

- Meeting dates and times
- Purpose and membership of Working Groups
- Election of a Chair, Deputy Chair and Regional Representative for 2017 as set out in the Committee's Terms of Reference.

### 2. Staff Recommendations

That the Christchurch West Melton Water Management Zone Committee:

2.1 Elect:

XX as Chair for 2017

XX as Deputy Chair for 2017

XX as Regional Representative for 2017

2.2 Meet 6pm- 9pm on the last Thursday of the month as set out the following schedule:

- 26 January
- 23 February – Kerrs Reach (Lower Avon and Red Zone)
- 23 March
- 20 April
- 25 May
- 22 June
- 27 July
- 24 August
- 28 September
- 26 October
- 23 November

2.3 Organise its work into the following working groups:

Urban Contaminants Working Group	Andrew Congalton – Chair Pauline Cotter Suzanne Furkert
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	Tom Lambie
Cashmere Stream	Ken Rouse – Chair Arapata Reuben Herewini Banks Les Wanhalla
Liaison with community groups Styx Living Laboratory Avon / Ōtakaro Network  Heathcote/Ōpāwaho network Estuary Ihutai Trust	Suzanne Furkert
Groundwater/Drylands	Chris Kelliher – Chair Robert Wynn-Williams Kevin Brown
Communication/Engagement	Arapata Reuben – Chair Suzanne Furkert
Biodiversity - Immediate Steps	Lance Kenyon – Chair Les Wanhalla Arapata Reuben Tom Lambie

### 3. Report

#### 3.1 Zone Committee

The Christchurch West Melton Zone Committee is established under the auspices of the Local Government Act 2002 in accordance with the Canterbury Water Management Strategy 2009. The Committee is a joint committee of Christchurch City Council, Selwyn District Council and Environment Canterbury.

The purpose and function of the Committee is to:

- Facilitate community involvement in the development, implementation, review and updating of a Zone Implementation Programme that gives effect to the Canterbury Water Management Strategy in the Christchurch West Melton zone.
- Monitor progress of the implementation of the Zone Implementation Programme.

The Committee does not have the authority to commit any council to any path or expenditure and its recommendations do not compromise the Councils' freedom to deliberate and make decisions.

The Committee does not have the authority to submit on proposed Resource Management or Local Government Plans.

The Committee does not have the authority to submit on resource consent matters.

#### 3.2 Operating Philosophy

The Committees will at all times operate in accordance with the requirements of the Local Government Official Information and Meetings Act 1987, and will observe the following principles:

- 3.2.1) Give effect to the Fundamental Principles, Targets and goals of the Canterbury Water Management Strategy (CWMS);
- 3.2.2) Be culturally sensitive observing tikanga Maori;
- 3.2.3) Apply a Ki uta ki tai (from the mountains to the sea) approach;
- 3.2.4) Work with the CWMS Regional Committee to support the implementation of the CWMS across the region as a whole;
- 3.2.5) Give consideration to and balance the interests of all water interests in the region in debate and decision-making;
- 3.2.6) Work in a collaborative and co-operative manner using best endeavours to reach solutions that take account of the interests of all sectors of the community;
- 3.2.7) Contribute their knowledge and perspective but not promote the views or positions of any particular interest or stakeholder group;
- 3.2.8) Promote a philosophy of integrated water management to achieve the multiple objectives of the range of interests in water;
- 3.2.9) Seek consensus in decision-making where at all possible. In the event that neither unanimous agreement is able to be reached nor a significant majority view formed, in the first instance seek assistance from an external facilitator to further Committee discussions and deliberations. Where the Committee encounters fundamental disagreements, despite having sought assistance and exhausted all avenues to resolve matters, recommend that the respective Councils disband them and appoint a new Committee.

### 3.3 Elections

Each year, the Committee is required to appoint the Chair and Deputy Chair from the membership by simple majority. There is no limit on how long a person can be in either of these positions.

The Committee also needs to appoint a member to the position of representative on the regional committee.

*Process to Elect of Chair and Deputy Chair (ref. Christchurch City Council standing Orders)*

A local authority or a committee (if the local authority has so directed) must determine by resolution that a person be elected or appointed by using one of the following systems of voting:

- (a) [System A]; or
- (b) [System B].

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 the round there is a second round of voting from which the candidate with the fewest votes in the first round is excluded; and
- (ii) 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
- (iii) 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.”

[cl. 25, Schedule 7, LGA]

### 3.4 Meeting Dates and Times

The Committee must meet at least eight times per annum and with workshops and additional meetings as required. At times, the workload could be higher.

The Committee is currently scheduled to meet at Environment Canterbury, 200 Tuam Street between 5pm -9pm and can change the location from time to time to encourage greater engagement on issues in particular areas.

### 3.5 Purpose, Number and Membership of Working Groups

The Committee currently has a representative on the Regional Committee, and six Working Groups. A number of new members need to have an opportunity to choose a Working Group.

GROUP	Current ZC MEMBERS
Regional Committee representative	Les Wanhalla
Urban Contaminants Working Group	Andrew Congalton – Chair Pauline Cotter Suzanne Furkert Tom Lambie
Cashmere Stream	Ken Rouse – Chair Arapata Reuben Herewini Banks Les Wanhalla
Liaison with community groups	Suzanne Furkert

Styx Living Laboratory Avon / Ōtakaro Network Heathcote/Ōpāwaho network Estuary Ihutai Trust	
Groundwater/Drylands	Chris Kelliher – Chair Robert Wynn-Williams Kevin Brown
Communication/Engagement	Arapata Reuben – Chair Suzanne Furkert
Biodiversity - Immediate Steps	Lance Kenyon – Chair Les Wanhalla Arapata Reuben Tom Lambie

## Attachments

There are no attachments to this report.



## 8. Heathcote/Opawho Catchment

**Reference:** 17/56550

**Contact:** Lesley Woudberg lesley.woudberg@ecan.govt.nz

027 706 4273

### 1. Purpose of Report

- 1.1 This report is to provide the Committee with an update on the:
  - 1.1.1 Ōpāwaho/ Heathcote/ Stormwater Management Plan
  - 1.1.2 Bells Creek Stormwater Treatment Project
  - 1.1.3 Proposed Linwood Lower Fields Flood Protection Project
  - 1.1.4 Riverbank river bank maintenance trial - community comments?

### 2. Staff Recommendations

That the Christchurch West Melton Water Management Zone Committee:

- Welcomes the progress made on the Ōpāwaho/ Heathcote Stormwater Management Plan and looks forward to receiving final copies.
- Welcomes the progress made on installing the stormwater treatment facility at Bells Creek.
- Requests regular monitoring updates on how effective the Bells Creek stormwater facility is in removing contaminants.
- Welcomes the Linwood Lower Fields flood protection landscape plan.
- Encourages community members to take the opportunity at the drop in session 8 February 2017 to provide feedback on the proposal.
- Provides initial feedback on the Linwood Lower Fields flood protection landscape plan.
- Seeks opportunities to raise awareness of community members about why the City Council is undertaking a trial of not mowing the riverbanks down to the water level.

### 3. Report

- Memo – Update on the Ōpāwaho/Heathcote Stormwater Management Plan (memorandum attached).
- Update Bells Creek Stormwater Treatment Project.

In August 2016 the Christchurch City Council agreed to the installation of a \$1.5 million stormwater treatment system as part of the land drainage recovery programme work being undertaken in the Bells Creek (Woolston). Once installed the treatment system is expected to reduce sediment entering the Ōpāwaho/Heathcote River from Bells Creek by up to 50% and dissolved metals by 20%.

- Linwood Lower Fields – Landscape Plan (pamphlet attached)

The Linwood Lower Fields project is up stream of the treatment project. The main purpose of the project will be to restore the flooding risk in the area to pre-earthquake levels. The proposal is to provide a stormwater retention basin but design it in a way that will also restore some of the original ecosystems once found in the area and provide an opportunity for passive recreation.

Item 8

## Attachments

No.	Title	Page
A <a href="#">↓</a>	SMP Status Memorandum	21
B <a href="#">↓</a>	Linwood Lower Fields Consultation Material	23

**Christchurch City Council  
Three Waters & Waste Planning and Delivery Unit,  
City Services Group**

**Memorandum**

**Date:** 30 December 2016

**From:** Kevin McDonnell Team Leader Asset Planning, Storm Water & Land Drainage

**To:** Banks Peninsula Water Management Zone Committee, Christchurch West Melton Water Management Zone Committee, Community Boards, Te Ngai Tuahuriri Runanga, Te Runanga o Ngai Tahu

**CC:** Community Board Advisors (to distribute to Community Board Members)  
Paul Dickson, Clive Appleton, Graham Harrington, Peter Christensen, Greg Burrell

**RE: UPDATE ON THE OPAWAHO/HEATHCOTE STORMWATER MANAGEMENT PLAN**

**PURPOSE**

1. The purpose of this memo is to provide contributors, stakeholders and other interested parties involved in the development of the Opawaho/Heathcote Stormwater Management Plan (SMP) with an update on the current status of the SMP and an outline of the process through to submission of the SMP to the Canterbury Regional Council (CRC)
2. Feedback on this update is not required as it is provided for information purposes only.

**BACKGROUND**

3. The Opawaho/Heathcote SMP is the fourth in a series of the seven SMP's which will support the management of stormwater under consents held by Christchurch City Council (CCC). The SMP's provide the means for meeting the CCC's obligations under the consents.
4. The development of the Opawaho/Heathcote SMP has included engagement with stakeholders including Council, representatives from runanga and other stakeholders. The SMP development has also been coordinated with the development of the CCC's Comprehensive Stormwater Network Discharge Consent (CSNDC), with the development of each informing and assisting the development of the other.
5. With the Opawaho/Heathcote SMP about to move from development phase into finalisation phase, it is considered timely to update all interested parties on the current status of the SMP and to provide an outline of the planned steps through to submission of the SMP to the CRC.

**CURRENT STATUS**

6. The Draft Opawaho/Heathcote SMP is complete to the stage where it is now ready for internal review. Most of the content of the SMP has already effectively been through a review process through the engagement with the various parties referred to above in the course of SMP development. This upcoming review provides the opportunity to reviewers to consider various aspects of the SMP in the context of the whole document.
7. The internal review of the draft has commenced. The planned review stages are listed in the table below:

- 2 -

Review Stage	Focus of Review Stage	Name/Role of Reviewer
1. (a)	Broad CCC stormwater management and planning context – the alignment of the SMP with the CCC stormwater management strategy and plans	Kevin McDonnell (CCC - Team Leader, Stormwater and Land Drainage Asset Planning)
1. (b)	Alignment with CCC policy and stormwater vision for the Opawaho/Heathcote catchment	Clive Appleton (CCC - Team Leader Natural Environment, Strategy & Transformation)
2. (a)	Mitigation strategy for metals, PAH's and other contaminants	Paul Kennedy (Golder Associates Principal Environmental Scientist)
2. (b)	Planning – six values (culture, heritage, ecology, landscape, recreation, drainage), technical	TBA re: Cultural Values; Graham Harrington (CCC - Senior Surface Water Planner); Peter Christensen (CCC - Design Manager, Land Drainage and Stormwater)
2. (c)	Science and monitoring	Dr Greg Burrell (CCC – Waterways Ecologist)
2. (d)	Cultural Values	TBA

8. Review stages 1 and 2 will be sequential, but sub-stages (e.g. 1(a) etc) will largely be carried out concurrently with other sub-stages within that review stage.
9. Prior to submitting the SMP to the CRC, it is proposed to provide a draft copy to the following parties inviting feedback within a timeframe of not less than 20 working days:
- o Papatipu Rūnanga;
  - o The relevant Zone Committee(s) (or successor organisation); and
  - o The relevant Community Board(s) (or successor organisation)
- This approach is in accord with that proposed in the CSNDC

#### NEXT STEPS

10. Staff have already briefed some reviewers and will be contacting the remaining proposed reviewers in January 2017. Briefings will include an outline of review requirements including particular aspects on which review comments will be sought and the required timeline.
11. Upon receiving all review feedback, the Draft SMP will be updated as appropriate, then issued to the stakeholder parties identified in clause 9 above. An indication of timing for their response will be obtained from each.
12. A further status update will be provided as the timing of the steps through to submission to CRC become more defined, including the timeline.
13. The draft SMP will be updated as appropriate based on the feedback comments from stakeholders, and will then be presented to Council for approval.
14. Once approved by Council, the SMP will be submitted to the CRC as a draft.









## 9. Facilitator's Update

**Reference:** 17/56904

**Contact:** Lesley Woudberg Lesley.woudberg@ecan.govt.nz

027 706 4273

### 1. Purpose of Report

**1.1** This report is to inform the Zone Committee of:

1.1.1 Upcoming events

1.1.2 Biodiversity Immediate Steps publicity for round two – ready to go

1.1.3 Draft 2016 Zone Committee Annual Report

1.1.4 Recent media items

### 2. Staff Recommendations

That the Christchurch West Melton Water Management Zone Committee:

2.1 Notes the upcoming events

2.2 Notes the Immediate Steps publicity

2.3 Provides comments on the Committee's draft 2016 Annual Report

2.4 Notes recent media items.

### 3. Report

#### 3.1 Upcoming Events

Event	Audience	Comment
Estuary Festival McCormacks Bay 4 February 1:00 -6:00pm	Community	There will be an DOC, F&B, Ihutai, ECan display on wetlands and waterways. ZC welcome to assist and talk to community members
Seaweeek 25 February -5 March <a href="http://seaweeek.org.nz/events/canterbury/">http://seaweeek.org.nz/events/canterbury/</a>	Community	Various events around Christchurch and Banks Peninsula
February Zone Committee meeting 23 February Kerrs Reach	Zone Committee	Next steps on Zone Committee work on Lower Avon Overview of Red Zone – process and proposals Regeneration Christchurch
Immediate Steps publicity next funding round		

#### 3.2 Draft Zone Committee 2016 Annual Report (to be tabled)

**3.3 Recent Media Items (attached).**

**Attachments**

No.	Title	Page
A <a href="#">↓</a>	Media Items	29

## Slippery slimy discovery in Dudley Creek

07 Dec 2016 | 

She's long, lean and in fairly good shape for a 70-year-old.

A huge 1.4 metre longfin eel was fished out of Dudley Creek recently by contractors working on the \$48 million Dudley Creek flood mitigation programme.

Caught as part of a fish relocation programme, the lovely lady, estimated to be at least 70-years-old, was moved out of the current work zone to a spot further downstream.



Council contractors relocating a 70 year old longfin eel at Dudley Creek this week.

Christchurch City Council Land Drainage Project Manager Martin Smith said the programme to widen the creek meant some fish needed to be temporarily relocated, but also presented an opportunity to improve the ecology of the waterway.

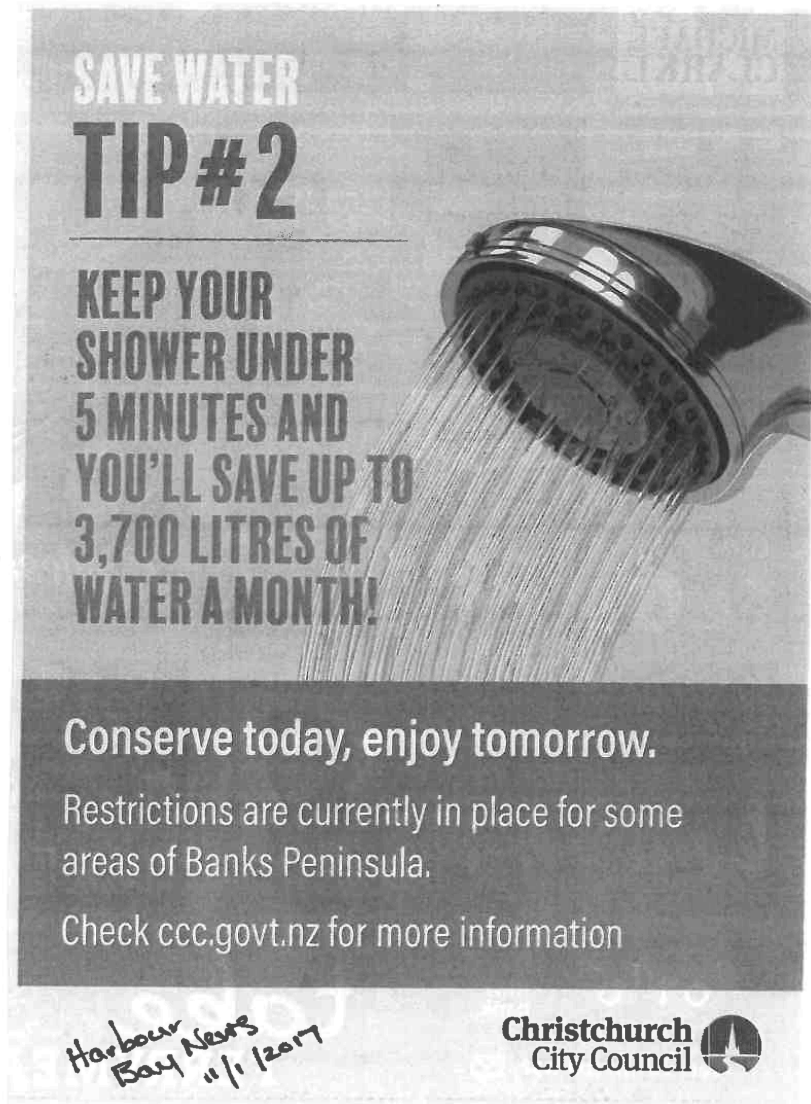
"In parts of the creek we need to stop the flow and where that happens, we take the fish out and relocate them downstream. We then get in there and do our work and when the flow is re-established, the fish and eels usually make their way back to the part of the stream where they previously lived."

This eel was one of three caught in the same area using a technique called "electro-fishing".

An electrical current is passed through the water that temporarily stuns the fish. The fish

<https://www.ccc.govt.nz/the-council/newsline/show/1218>

10/12/2016





20 Dec 2016  
NorWest News

Section: General News • Page: 9 • Item ID: 702823523

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# Stream clean-up

SIXTY-FIVE TONNES of accumulated silt has been blasted out of an Ilam stream in an effort to entice trout back to breed and improve the habitat for other aquatic life.

Recently North Canterbury Fish & Game staff spent two weeks co-ordinating the removal of sediment from the Wairarapa Stream, one of the Avon River's most important tributaries.

The operation removed silt which had accumulated over the years from stormwater drains flowing into the stream, with about 540 sq m of stream bed near the Jellie Park Recreation and Sports Centre cleaned.

It equated to 120kg of silt per sq m cleaned.

Fish & Game officer Emily Arthur-Moore said the goal was to make the stream suitable for trout to spawn in and habitable for other aquatic life.

"Silt layers on top of the stream gravels had smothered the invertebrates that live in the stream bed and, by removing the sediment, aquatic life has the chance to prosper again," she said.

"Various techniques were used during the two weeks, including water jet blasters, diggers and a specialised piece of equipment

called a sand wand," Ms Arthur-Moore said.

Support was given to the project by the city council, Environment Canterbury and Nelson-based dredging and water treatment consultants, Southwater, which also provided various pumps and hoses.

The stream bed was agitated using either the water jet blasters or the sand wand and the disturbed silt was captured and then re-

moved to a de-watering site.

After a process to remove the silt, the clean water was returned to the stream and the sediment remaining was taken to a landfill for disposal.

Monitoring was carried out throughout the project to assess levels of sediment going downstream.

"Large amounts of rubbish were also removed during the process, mainly broken glass and crockery, but also items of footwear, batteries and plastic."

One volunteer, Tony Findlay, grew up in the area 50 years ago and recalled being able to drink the stream water from the three springs that once fed the stream bed that he was working in.

"Not that you would do that now," he said.

The stream will be monitored over the coming years to see if the improved habitat increases the diversity of invertebrates, which trout predate on. Also of interest is the degree that silt may return to cover the stream bed.

Ms Arthur-Moore said it's hoped the techniques and knowledge gained from the project can be applied to other enhancement projects around the region.



**FRESH WATER:** Tony Findlay uses a water blaster.  
PHOTO: RICHARD  
COSGROVE, FISH & GAME NZ

## Lesley Woudberg

**From:** Shelley Washington  
**Sent:** Tuesday, 17 January 2017 1:44 p.m.  
**To:** Charlotte O'Sullivan; Paul Hulse; Lesley Woudberg; Nick Moody  
**Subject:** check out this media article!!

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JANUARY 12, 2017, CHRISTCHURCH MAIL 3

# Out of the Avon to restore its sparkle

ANNE WHITTLE

Peter Hultman loves messing about on the river. He just hates mess in the city's Avon.

So the 78-year-old has launched a one-man crusade to do something about it by taking a kayak up and down the Avon collecting trash.

He pulls out on the water kitted up, courtesy of the Antigay Boat Shed, with a big black bag, a pair of gloves and a grab pole to fish out whatever lies on the bottom of the Avon, or is caught along its banks.

His "catch" has included lots of plastic, juice bottles, cans, fast food wrappers, "and other more serious items".

"Modesty prohibits me from giving you the complete list of what I've already picked up," he said. "But there's enough to keep me fit and happy."

The former educational psychologist is also a volunteer "log splitter", but he will not be labelled just a Tidy Kiwi Boat. Rather, he sees himself as a trend setter.

"Plasticists reckon that in 60 years time paid work will fade and the only occupations will be those that get paid in social capital - i.e., do voluntary good works for your community and nation. I pride myself on being an early adopter."

When not helping keep the



Peter Hultman goes "kayaking" on the Avon River, 1/12/17.

Avon (and river) of Christchurch down the Fillmore residents volunteers as a Messianic Whodunnit, a migrant/refugee English language tutor, and a proof reader for the Church Missionary Society.

His charity suggests trash dumping is more "thoughtless

ness" and in some cases, accidental, like a hidden goal of selfish. "It's sad, though, on so many fronts - a pure and sparkling Avon is surely the jewel in the city's crown. It's good for the wildlife and environment, the tourist experience, and a sense of community pride that we all

need."

He is now hoping to get more people involved in "messing about to get the mess out" of the Avon.

He says he is seriously thinking of kick-starting a group called Out of the Avon, which would be a Christchurch City Council

supported group, "a sort of steer group to their Out the Wall (log-splitters) scheme."

Last year, Megan Blake led more than 1000 volunteers to pull 20 tonnes of rubbish from the estuary and the Avon and mounted a petition to rid Christchurch of plastic bags.

## Shelley Washington

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