
Banks Peninsula Water Management Zone Committee AGENDA

Notice of Meeting:

A meeting of the Banks Peninsula Water Management Zone Committee will be held on:

Date: Tuesday 18 June 2019
Time: 4pm
Venue: Lyttelton Community Boardroom, 25 Canterbury Street, Lyttelton

Membership

Chairperson	Benita Wakefield - Te Rūnanga o Wairewa
Deputy	Gina Waibl - Community Representative
Chairperson	
Members	Rima Herber - Community Representative
	Elizabeth Macpherson - Community Representative
	Ben Manson - Community Representative
	Paula Smith - Community Representative
	Garrick Thorn - Community Representative
	Andrew Turner - Deputy Mayor Christchurch City Council
	Elizabeth Cunningham - Councillor Environment Canterbury
	Manaia Cunningham - Te Runanga o Koukourarata
	Pere Tainui - Te Runanga o Onuku
	Aurora Smith - Te Hapū o Ngāti Wheke/Rapaki

11 June 2019

Committee Advisor
Liz Ryley
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Christchurch City Council

Principal Advisor
Peter Kingsbury
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<https://www.ecan.govt.nz/get-involved/council-and-committee-meetings/>

Banks Peninsula Zone Action Plan 2018-2021 – Finalised 16 October 2018

This 3-year plan includes the key actions to be delivered by councils, agencies and the community to help make progress toward achieving the priority outcomes from the Banks Peninsula ZIP. The Zone Committee play a key role in supporting the delivering this action plan through:

- **Engaging the Banks Peninsula community**– make connections, be a contact for community members to discuss issues/solutions, be a community voice.
- **Hosting events, workshops, public meetings, fieldtrips** to share information, seek input/feedback, and celebrate success.
- **Using media** to build the profile of the committee, share information and celebrate success.
- **Supporting and celebrating** the work of landowners and community groups.
- **Allocating the IMS biodiversity fund.**
- **Making recommendations** to councils to influence work programmes and influence the priorities of agencies.
- **Reporting** to Councils, Ngai Tahu and the Banks Peninsula Community Board.

ZIP and ZIPA Outcomes	Priority actions for 2018-2021
<p>1. Kaitiakitanga All waterbodies in Banks Peninsula have Kaitiakitanga as an overarching value and reflect Ki Uta Ki Tai, Mauri, mahinga Kai, Wahi Tapu and Waihi Tonga.</p> <p>Wairewa ZIPA Outcome -All streams that flow into the lake are flourishing ecosystems reflecting mauri, kaitiakitanga and mahinga kai values.</p>	<ol style="list-style-type: none"> Support the implementation of the Whakaraupō Catchment Management Plan project to complete riparian planting on four streams Ki Uta Ki Tai. <i>ZC Role: To be advised once more certainly about the structure for implementing the WCMP plan.</i> Mahinga Kai is used as an indicator to help monitor the health of Banks Peninsula Waterways Contributors: Rūnanga, Ecan <i>ZC Role: Recommend that Ecan integrate this into the science monitoring programmes.</i> Increase community understanding of Mahinga kai through FEP workshops, Nature Agents Programme, landowner advice and public events. Contributors: Rūnanga, ZC, landowners, <i>ZC Role: Rūnanga reps input to FEP workshops and nature agents programme, ZC promote info card, share new research e.g. Whakaraupō Mahinga Kai research.</i> Each year, showcase an example of a Ki Uta Ki tai approach on Banks Peninsula. Contributors: ZC, Rūnanga, landowners <i>ZC Role: Each year ZC select example, advise on communication approach (article, public fieldtrip etc) and contribute to content.</i>

<p>2. Water Quality <i>People have access to safe drinking water.</i></p> <p><i>Water quality is monitored, and rules are developed to maintain and improve it where appropriate</i></p> <p><i>Wairewa ZIPA Outcome -Te Roto o Wairewa is a nationally significant project showcasing outstanding environmental restoration.</i></p>	<p>5. Support communities to have safe and secure drinking water sources. <i>Contributors: CPH, CCC, Ecan, ZC Role: Help advocate with communities where required/appropriate.</i></p> <p>6. Assessment of BP marae drinking water supplies and actions plans to address issues. <i>Contributors: Runanga, CPH, Ecan Tuia Team. ZC Role: Receive regular updates</i></p> <p>7. Share in depth annual water quality and ecosystem health monitoring results and relevant research with the Banks Peninsula community. <i>Contributors: Councils, DOC, Nature Agents, Research Institutes, Industry Groups, Community ZC Role: Share information with communities, advise research institutes of local research gaps/opportunities.</i></p> <p>8. Host two FEP workshops per year which effectively incorporate biodiversity and mahinga kai. <i>Contributors: Beef and Lamb, CCC, Ecan ZC Role: Host workshop with Beef and Lamb and encourage landowners to attend using your network of contacts.</i></p> <p>9. Support all Wairewa landowners to exclude stock from waterways by 2020. <i>Contributors: Ecan, landowners ZC Role: Strategies a way to best influence CCC and provide advice on how to communicate these new requirements to ensure people understand the reason why.</i></p>
<p>3. Water Quantity <i>There is enough water available in the Banks Peninsula Zone to meet the needs of daily living, stock water, and fore fighting storage as a priority, and allow allocation for other uses where these priority needs are already being met.</i></p> <p><i>Allocation of water required to meet these needs is subject to flow and allocation limits so that the unique values of the Banks Peninsula streams are protected.</i></p>	<p>10. Promote water efficiency and provide advice to ensure people understand how they can be more efficient and the reasons why water efficiency is important. <i>Contributors: landowners CCC Ecan, ZC Role: Provide advice on an effective communication approach to engage community and share messages through networks. Consider public opportunities/events to promote messaging over summer.</i></p> <p>11. Encourage landowners to develop stock water systems. <i>ZC Role: Help promote information and advice.</i></p> <p>12. Continue investigations into minimum and environmental flows on Banks Peninsula and their relationship to consented and permitted water takes. <i>ZC role: Recommend that Ecan undertake this work.</i></p>
<p>4. Biodiversity <i>Banks peninsula is recognised in the region for showcasing flourishing biodiversity.</i> <i>Protection of biodiversity is promoted, supported and celebrated and enhancement undertaken where appropriate.</i> <i>Flag projects are showcased as</i></p>	<p>13. IMS biodiversity fund is strategically allocated and progress celebrated. <i>Contributors: ZC, Ecan, landowners ZC Role: Approve projects, encourage and support landowners and celebrate projects.</i></p> <p>14. Improve and update the IMS Project Booklet annually with a coordinated map showing all biodiversity projects and reserves on Banks Peninsula (including IMS, CCC, Trust, DOC reserves etc).</p>

<p><i>examples of excellent biodiversity achievement.</i></p>	<p>Contributors: Ecan, CCC, DOC, BPCT, QEII <i>ZC Role: Use the booklet to celebrate success and utilise the map for helping prioritise projects.</i></p> <p>15. Address native fish barriers on public land and educate landowners. Contributors: Ecan, DOC, CCC, NZTA <i>ZC Role: Work with Council staff to ensure that new barriers are not constructed, and that existing infrastructure is upgraded to 'best fish passage practice'.</i></p>
<p>5. Erosion and Sediment <i>Sediment discharge into waterways are minimised.</i></p> <p><i>Sediment build in the harbours is managed sustainably to prevent damage to mahinga kai and Kai Moana from erosion and sedimentation.</i></p> <p><i>Wairewa ZIPA Outcome- Sediment discharges into waterways is reduced.</i></p>	<p>16. Complete the Whakaraupō Road Cutting Trial by 2021 to determine effective erosion control techniques Contributors: CCC, Ecan, Eos Ecology <i>ZC Role: ZC representative on working group.</i></p> <p>17. The Wairewa bank stabilisation pilot project is completed by 2021 and funding is secured to extend the pilot. Contributors: Rūnanga, Ecan, DOC, landowners <i>ZC Role: Encourage landowners to participate in project and work with rūnanga to secure funding to scale up the project.</i></p> <p>18. Support forestry landowners and operators to understand the National Environmental Standard for Plantation Forestry and ensure that erosion susceptibility is integrated into any forestry resources. Contributors: ZC, Industry, Ecan, CCC <i>ZC Role: Engage community and provide advice to industry/councils on how to best communicate requirements with the local community.</i></p> <p>19. Forestry activities and high-risk construction sites are prioritised for monitoring. Contributors: Ecan <i>ZC Role: Influence Ecan monitoring programme and receive regular updates on compliance.</i></p> <p>20. Continue to undertake soil mapping on Banks Peninsula. Contributors: Ecan, CCC, Landcare Research <i>ZC Role: Receive updates on project progress and help build community awareness about work.</i></p>
<p>6. Wastewater <i>Wastewater us not discharged to the harbour but reclaimed to land. Wastewater is treated to a high quality and promoted as an innovative water and irrigation source for the Peninsula.</i></p>	<p>21. Complete a research project on the impacts of onsite domestic wastewater systems on Wainui waterways. Consider research findings and develop an action plan. Contributors: Waterways Centre and Wainui community. <i>ZC Role: Support researcher with contacts, encourage community participation, consider research findings and suitable actions.</i></p> <p>22. Raise public awareness about the need to regularly maintain onsite wastewater systems Contributors: ZC, Ecan, community <i>ZC Role: Provide advice on how to best communicate this message locally, share information through networks, and recommend Ecan prioritise consent monitoring.</i></p> <p>23. Advocate for a successful resolution of the Akaroa Wastewater Scheme. Contributors: CCC, community <i>ZC Role: Provide input/advice where appropriate.</i></p>

<p>7. Climate Change <i>Climate change effects are taken into account in all infrastructure upgrades and planning on Banks Peninsula. As the Climates changes there is adequate water available and flooding is mitigated.</i> <i>Wairewa ZIPA Outcome- Risks of flooding are known and understood and flood hazards reduced.</i></p>	<p>24. Consider climate change effects on all actions.</p> <p>25. Promote the development of a contestable fund for flood management. <i>Contributors: ZC, Ecan, community</i> <i>ZC Role: Recommend to Ecan that a contestable fund be established as part of LTP and provide advice on how this could work.</i></p>
<p>8. Education and Communication <i>The Banks Peninsula community is empowered by education in environmental management. Environmental success in the zone are appropriately recognised and publicised.</i></p>	<p>26. Develop and implement 6 monthly zone communication plans. This is to include a range of communication channels including social media. <i>Contributors: ZC, Ecan, CCC</i> <i>ZC Role: Input to plan and assist with the content and delivery.</i></p> <p>27. Support and promote freshwater education programmes and community led projects. <i>ZC Role: Support groups through attendance at events, raise profile in community through inviting to ZC meeting and sharing information/photos using social media.</i></p> <p>28. Zone Committee to provide updates to CCC, Ecan, Community Boards and the wider community. <i>ZC Role: Quarterly reporting to CCC, annual reporting to Ecan, initiate regular reporting to community board.</i></p> <p>29. Recommend that 15 streams on Banks Peninsula are labelled. <i>Contributors: CCC</i> <i>ZC Role: Effectively influence CCC priorities to fund signage.</i></p>
<p>9. Coastal <i>The harbours are a natural extension of the rivers and streams. The marine biodiversity of the harbours is protected and restored.</i></p>	<p>30. Ongoing research in the coastal environment to inform the Coastal Plan Review. <i>Contributors: DOC, Ecan, CCC, Universities</i> <i>ZC Role: Revise and share updates on research where appropriate. ZC participate and contribute to the development of the Plan.</i></p>

Banks Peninsula Water Management Zone Committee

Members' Register of Interests at 17 December 2018

Representative's Name and Interests	
Updated:	13 February 2019
Paula Smith	<ul style="list-style-type: none"> • Member of the Canterbury Aoraki Conservation Board Te Rūnanga Papa Atawhai o Waitaha me Aoraki • Chair of Stoddart Cottage Trust, Diamond Harbour • Friend of Orton Bradley Park • Residential landowner, Diamond Harbour
Gina Waibl	<ul style="list-style-type: none"> • Owner of a forestry block with a number of springs (67ha) and a small flock of sheep • Predator Free Port Hills Steering Committee • Resident of Lyttelton Harbour
Garrick Thorn	<ul style="list-style-type: none"> • Resident of Sumner • Operations Engineer at Dept of Chemical and Process Engineering, University of Canterbury, • Experienced: Researcher, Project manager, Process engineer, Environmental engineer (wastewater treatment) • Passionate about science/engineering outreach, engagement and education.

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Karakia Whakamutunga

The meeting will be opened with a Karakia/Timatanga and closed with a Karakia/Whakamutunga

1. Apologies

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

2. Updates from Banks Peninsula Zone Committee Members

An opportunity for members to highlight events/meetings/issues relevant to the Zone Committee.

3. Confirmation of Previous Minutes

That the minutes of the Banks Peninsula Water Management Zone Committee meeting held on [Tuesday, 21 May 2019](#) be confirmed (refer page 9).

4. Matters Arising from the Minutes

5. Deputations by Appointment

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

6. Identification of Urgent Items

7. Identification of General Public Contributions

Banks Peninsula Water Management Zone Committee OPEN MINUTES

Date: Tuesday 21 May 2019
Time: 4.03pm
Venue: Governors Bay Community Centre, 1 Cresswell Avenue,
Governors Bay

Present

Chairperson	Dr Benita Wakefield - Te Rūnanga o Wairewa
Deputy	Gina Waibl - Community Representative
Chairperson	
Members	Rima Herber - Community Representative
	Elizabeth Macpherson - Community Representative
	Ben Manson - Community Representative
	Paula Smith - Community Representative
	Garrick Thorn - Community Representative
	Andrew Turner - Deputy Mayor Christchurch City Council
	Elizabeth Cunningham - Councillor Environment Canterbury
	Manaia Cunningham - Te Rūnanga o Koukourarata
	Aurora Smith - Te Hapū o Ngāti Wheke/Rapaki

In Attendance: Gillian Jenkins, Helen Greenup, Mananui Ramsden (ECan); Pam Richardson (private landowner), Tom McTavish (DOC), Yvette Couch-Lewis and Karen Banwell (Whaka-Ora, Healthy Harbour Project)

20 May 2019

Committee Advisor
Liz Ryley
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Christchurch City Council

Principal Advisor
Peter Kingsbury
Principal Advisor Natural
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Zone Facilitator
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www.ecan.govt.nz/news-and-notice/minutes/Pages/Default.aspx

Mananui Ramsden, Te Rūnanga o Koukourārata, and Cultural Land Management Advisor at Environment Canterbury introduced himself to the Committee and opened the meeting with a Karakia/Timatanga.

The agenda was dealt with in the following order.

1. Apologies

That an apology from Pere Tainui, and apologies for lateness from Manaia Cunningham and Deputy Mayor Andrew Turner, be accepted.

2. Updates from Banks Peninsula Zone Committee Members

Members highlighted events/meetings/issues relevant to the Zone Committee. These were noted as:

Benita – Acknowledged Councillor Elizabeth Cunningham and the Environment Canterbury (ECan) Councillors for the climate emergency declaration.

Rima –

1. Reported from the Canterbury Water Management Strategy Regional Committee meeting and workshop regarding Farm Environment Plans, how the Plans work and audited. The Plans require tangible outputs. The Regional Committee wants to ensure that the Zone Committee representatives have time to report to each meeting. They also take some time to discuss way out, nutty, radical ideas at each meeting to check for any useful outputs.
2. The beach area near her home, Birdlings Flat, between the canal and carpark – contains the weed *Yellow-horned poppy* so they are grubbing out this and other weeds with the assistance of DOC and volunteers. Rima will bring photos of the poppy to the next meeting.

Manaia Cunningham arrived at 4.14pm.

Aurora – Advised she has been talking to people at Rapaki and, as a newly appointed member, getting to know her fellow Zone Committee members better.

Manaia –

1. Referred to a concern raised at the last Rūnanga meeting about topdressing around the harbour, where pellets are spread over the landscape. The question was asked about the effect on local water tanks. This is being raised with ECan workers for advice and information to be provided to Rūnanga members regarding cause and effects.
2. A letter received from the Department of Conservation (DOC) to our Rūnanga and other Rūnanga about pest free Banks Peninsula and management of possums using cyanide in bait trap certified by the Ministry of Health. Whanau have asked for more knowledge about cyanide.

The meeting noted that DOC had been invited to attend this meeting at 6pm, along with Pam Richardson as a private landowner to provide a presentation to the Zone Committee about the possum control programme and control methods, including bait containing cyanide.

Paula – Research by NIWA on biopsies of 55 carcasses of Hector's and Māui dolphins, has found nine with a higher number of toxoplasmosis (spread by cats) that is possibly carried in sediment. This is another reason to keep sediment out of waterways. The press release about this is on the NIWA website at: <https://www.niwa.co.nz/>

Liz Macpherson – Advised that she had been invited to New York to attend the General Assembly of the United Nations “Interactive Dialogue on Harmony with Nature” on 22 April 2019, relating to changing world systems for harmony to nature and mother earth. She spoke about retraining lawyers and about the Nature Agents programme. A highlight was to hear about water protection cases, e.g. the Lake Erie Bill of Rights; and reconnecting children with nature.

Ben – Has talked to landowners on Banks Peninsula and later in the meeting will provide members with feedback he has received from them in relation to the Immediate Steps programme.

Garrick – Has been in touch with Professor David Norton and has a planned meeting with him regarding a reserve/ecosanctuary he is proposing on the Port Hills. Garrick will obtain information as to the water perspective of this project. He has also been promoting Water Management Zone Committees as a route for engagement between science and communities. Currently the MBIE funding round is underway so people with water related projects are considering ways to engage communities.

Gina – Attended the Whaka-ora Advisory Committee meeting; and next week will be providing the Zone Committee's quarterly update to the Christchurch City Council (CCC). Please advise Gina any matters you want raised by her at that Council meeting.

Elizabeth Cunningham –

1. Last Thursday Benita spoke to the Banks Peninsula 2018 Annual report at ECan. This was a positive presentation in which she acknowledged the newly appointed Zone Committee members, thanked Paula for her past work for the Committee, and presented the new approach for this Committee regarding everyone being involved.
2. ECan has approved its Annual Plan, including an increased rate for Pest Free Banks Peninsula.
Action: Lesley will circulate the increased amount for members' information.
3. Thank you for acknowledging the climate emergency declaration.

Pam Richardson was invited to provide comment at this time, and reported on research work being carried out by Liz Slooten, University of Otago, regarding the impact cruise ships in the harbour have on dolphins. She referred to a cruise ship levy for environmental impacts relating to Milford Sound. Akaroa harbour has a marine mammal sanctuary and reserve, as well as some of the other bays containing pied oyster catchers and shags as examples.

Paula asked for the Zone Committee's quarterly report to the Councils to be included in this Committee's agenda.

3. Confirmation of Previous Minutes

Committee Resolved BPZC/2019/00018

That the minutes of the Banks Peninsula Water Management Zone Committee meeting held on Tuesday, 16 April 2019 be confirmed, subject to the following amendments:

- Page 11, Item 2 (2) to read “A Regional Committee field trip on Farm Environment Plans is being organised for 14 May 2019.
- Page 11, Item 2 (3) to read “Opening of Te Roto o Wairewa – Lake Forsyth should be opening at drains to allow fish to get to the sea, e.g. tuna, and to clear sediment build-up.

Benita Wakefield/Elizabeth Cunningham

Carried

4. Matters Arising from the Minutes

Councillor Cunningham referred to Item 7, the site visit with Alison Evans where Alison had expressed concern at the build-up of tyres that have been dumped. Alison had contacted CCC to remove them but she had been advised this would be her responsibility.

The Zone Committee members acknowledged and supported Alison’s concerns about the tyres.

Ben Manson raised the matter in Item 7, Te Roto o Wairewa-Lake Forsyth opening level noted at 2.7 metres and possibly even at 3.4 metres. Lesley explained that the resource consent for this activity expires in 2051. It was noted that the lake levels are recorded on ECan’s website.

Deputy Mayor Andrew Turner arrived at 4.40pm.

A brief round of introductions was undertaken at this time. Andrew noted that the last presentation by the Zone Committee to the CCC was clear and excellent.

5. Deputations by Appointment

There were no deputations by appointment.

6. Identification of Urgent Items

Nil.

7. Identification of General Public Contributions

Nil.

9. Whakaraupō Catchment Management Plan - Head of the Harbour Project Committee Comment

1. Yvette Couch-Lewis, governing chair of the Whaka-Ora, Healthy Harbour project, addressed the meeting about the Whakaraupō Catchment Management Plan.
2. Paula referred to two actions from the Zone Committee’s Action Plan, relating to stream plantings and erosion sediment road cutting trials, which have been identified as being important.
3. Yvette felt that was an example of how the two Committees could work together. Prioritisation of those two actions are aligned with the Whakaraupō Catchment Management Plan. Funding for the Head of the Harbour project is being sought from the Ministry for the Environment to look at three main streams from Teddington through to Living Springs, and

waterways going into the harbour. On site interviews are being conducted with landowners. The Head of the Harbour key priority when developing the Plan was causes of sedimentation. The landowners are being asked to tell the Project team about how they see their land, and they have been advising that incoming sediment, from tidal movements, is an issue for them. Issues covered include: types of plantings to reduce flooding; the effects of salt marsh; how much water runs off hills; and retiring some land. Yvette advised that Karen Banwell has been employed by the Whaka-Ora, Healthy Harbour project team to develop and align the Plan.

4. Further discussion was held by the Committee about alignment of the two Committees.
5. Andrew suggested giving weight IMS funding to support and align the Plan with the Zone Committee's work programme.
6. Lesley circulated some projects the Committee has funded and been involved in, in the past.
7. Elizabeth Cunningham suggested the Plan could be a model for each harbour on Banks Peninsula.
8. Yvette was thanked for her presentation.

Committee Resolved BPZC/2019/00019

That the Banks Peninsula Water Management Zone Committee:

1. Receive the background information as the basis for discussion on the Whaka-ora, Healthy Harbour –Ki Uta Ki Tai Catchment Management Plan and the Head of the Harbour Project.
2. Consider Immediate Steps funding support to align the Whaka-ora, Healthy Harbour –Ki Uta Ki Tai Catchment Management Plan and the Head of the Harbour Project with the Zone Committee's work programme, consider areas of cross-over or creating areas of cross-over, particularly with priority projects and action plan projects.

Gina Waibl/Manaia Cunningham

Carried

8. Immediate Steps Funding Decisions

Committee Comment

1. Councillor Cunningham and Manaia Cunningham declared an interest in the Kahukunu Stream Restoration project.
2. The Committee members viewed a large map tabled that provided locations of projects that have been funded through Immediate Steps in the past as well as land managed by the Department of Conservation, and Christchurch City Council land.
3. Helen Greenup provided a brief overview of each project application.
4. A query was made regarding the name "Bill Hill Little Akaloa" and whether this was correct. Helen checked this following the meeting and confirmed the name should read "Big Hill Little Akaloa".
5. There was some discussion held about the applications. It was noted that particular applications are provided to the Zone Committee for decision-making. There was agreement

that staff should provide a full list of the applications that have been received at an early stage of the process, to provide Committee members with an overview.

Committee Resolved BPZC/2019/00020

That the Banks Peninsula Water Management Zone Committee:

1. Support the five Immediate Steps Project applications with the 2019/2020 Fund:
 - a. Mabel Hope Covenant \$26,750
 - b. Okuti QEII Covenant \$6,500
 - c. Crown Island Covenant \$25,240
 - d. Big Hill Little Akaloa \$6,000
 - e. Kahukunu Stream Restoration \$30,000 (+ \$10,000 per year x2)
2. Request that in future staff provide information on all Immediate Steps Project applications to the Zone Committee early in the process.

Aurora Smith/Andrew Turner

Carried

An adjournment was taken from 5.44pm to 6.20pm.

IMS Process - Landowner Feedback

Following the adjournment, Ben Manson was asked to provide the meeting with the feedback he has received from landowners about the Immediate Steps programme, as noted earlier in the updates.

Ben had received feedback and summarised the concerns of landowners. These were noted as:

1. The idea that ECan and CCC staff can enter a property many years after a project has been completed.
2. Landowners do not understand their ongoing obligations.
3. The potential for the Council staff to discover breaches of rules regarding compliance.
4. A belief that point 3 above is contained in council staff employment contracts.

Manaia thanked Ben for bringing these comments to the table, to assist the Committee in its decision-making.

Gillian agreed it was great to hear these comments. Part of ECan's values is to have integrity, so staff have a responsibility to be checking matters, however ECan always tries to work with landowners to find solutions in the first instance.

Andrew noted the importance of (1) giving priority to communications and engagement, for confidence and trust building, and (2) of information sharing between ECan and CCC.

Paula suggested that points 1 and 2 could be provided to the community by way of a Questions & Answers section of the IMS.

Other points noted were the need to be clear about ECan's approach, and whether there could be an independent person from one of the farming organisations/restoration areas to provide a link between

the landowners and councils, and a suggestion of putting people who have been through the IMS process in touch with those who are wanting to undertake the process.

Action: Respond to some of the concerns that may be barriers to the IMS funding, as raised through Zone Committee discussion on points 1-4 above.

Action: Consider the employment of a co-ordinator led team, to be employed to plant and maintain riparian areas, including assistance with fencing, as suggested by Pam Richardson. Possibilities include the Conservation Trust or IMS Funding team.

Department of Conservation – Possum Control

Department of Conservation Marine and Biodiversity Ranger, Tom McTavish, was welcomed to the table, along with Pam Richardson.

Manaia advised there was support by the Rūnanga for Predator Free Banks Peninsula, however, concern had been expressed by whanau relating to the impact if the poison was to enter waterways, and whether this would affect us and our children if it gets into water and our food gathering areas.

Tom McTavish outlined the possum control programme, and the impact of possums on native species. The reason for this programme is to protect the native species from those negative impacts, as well as control the spread of Tb.

Pam Richardson provided some history of the community initiated possum control programme from the 1970s through to 2005 when Tb was removed from possums and cattle. This programme covered areas such as Purau/Port Levy, Charteris Bay, Pigeon Bay and Takamatua. A consultation process and survey engagement with landowners and farmers had been undertaken, when landowners and farmers agreed to a targeted rate, which has been in place for around 15 years. Possum numbers have reduced to low levels but we cannot let up on that work or numbers will increase.

Aurora asked for information about the use of the Feratox bait.

Tom advised that the bait was placed at a targeted rate into particular blocks on a rotation process. When ECan is working in wider segments, DOC augments that with its own control in its reserves for maximum effect. There are seven reserves in the centre block covered in the budget, and he noted the areas on the large tabled map.

Tom showed an example of the Feratox bait and explained how it works by producing a cyanide gas when it contacts water. It is placed into the reserves with six bags per hectare, i.e. six pellets into an area slightly bigger than a rugby field.

Regarding positioning of the bags in relation to waterways, Tom explained that DOC has to apply to the independent Medical Officer of Health for the use of this who considers the risks. They want to know if there are any human water intakes within 200 metres of the reserve boundary. There is no issue or any risk of the bait entering water and poisoning at these concentrations. DOC placed the bait at a distance from the waterways that is over and above what is recommended, to prevent possums entering the water. He noted that the bait does not accumulate in tissue, so there was a low chance of birds dying if they eat the possum carcass. He added that it was the responsibility of the Environmental Protection Authority to make decisions about the baits from a public health perspective.

Councillor Cunningham advised that the Rūnanga had received a letter from DOC about work in a specific area. She explained the Rūnanga are not specific landowners and there would be a number of people who do not attend Rūnanga meetings who are landowners who would need to be advised.

Benita thanked Tom for responding to the concerns of the Rūnanga. A presentation to the Rūnanga at some time would be a good idea.

Action: Acknowledge differences between the Excell and High Country contractors letters notifying people of the operation. That is a matter DOC and ECan may want to consider when hiring contractors to provide appropriate information.

10. Facilitator's Update - 21 May 2019

Committee Comment

1. Lesley's report was taken as read.
2. Lesley added the following comments to her report:
 - 2.1 The film "Fools & Dreamers: Regenerating a Native Forest" about the Hinewai Nature Reserve is out now to view.
 - 2.2 ECan has made a decision on a climate change emergency and Lesley tabled a document about ECan's key climate change work.
3. Questions were asked about Plan Change 7, about the status of the information cards being prepared by CCC, and about how climate change relates to Banks Peninsula.
4. The current Te Karaka publication was noted, that is published every three months, containing an article by Pere Tainui and mahinga kai.
5. Benita asked members to prepare for the updates to next month's meeting, the need to plan for 2020, and to encourage working groups to be formed on targets, and what areas members would want to work on specifically.

Committee Resolved BPZC/2019/00021

That the Banks Peninsula Water Management Zone Committee:

1. Receive the Facilitator's Report.

Garrick Thorn/Rima Herber

Carried

Manaia Cunningham closed the meeting with a Karakia/Whakamutunga.

Meeting concluded at 7.42pm.

CONFIRMED THIS 18TH DAY OF JUNE 2019

BENITA WAKEFIELD

CHAIRPERSON

Item 2 - Minutes of Previous Meeting 21/05/2019

8. Banks Peninsula Zone Committee - Quarterly Update

Reference: 19/643710

Presenter(s): Gillian Jenkins, Zone Delivery Lead

1. Purpose of Report

- 1.1 The purpose of this report is for the Banks Peninsula Water Management Zone Committee to be updated on actions and projects that were progressed by the Zone Delivery Team at Environment Canterbury in the last quarter.
- 1.2 The report will be separately circulated.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Committee:

1. Receive the information in the Quarterly Update report.

Attachments

There are no attachments to this report.

9. Facilitator's Update - 18 June 2019

Reference: 19/643038

Presenter(s): Lesley Woudberg, Zone Facilitator

1. Purpose of Report

- 1.1 The purpose of this report is to inform the Banks Peninsula Water Management Zone Committee of:
 - 1.1.1 Recent and upcoming community engagement events
 - 1.1.2 Update on matters raised at previous meetings.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Committee:

1. Receive the Facilitator's Report.

3. Report

1. RECENT EVENTS

Event	Target Audience
Banks Peninsula ZC – Quarterly Report to Christchurch City Council Presentation to Christchurch City Council * Gina Waibl – Deputy Chair 23 May 2019	CCC Councillors
CWMS Regional Committee meeting 11 June	Regional committee members

2. UPCOMING EVENTS

Event	Target Audience
Biosecurity Advisory Groups Christchurch/BP 13 June 5:30-7:00pm Tai Tapu Community Centre Ashburton 18 June 5:30-7:00pm Ashburton Trust Centre, Cheviot 27 June 5:30-7:00pm Cheviot Hotel	Local community

Matariki Mahinga kai kōrero 26 June 1:00-2:00pm Arts Centre	Public
Film Premiere – Fools and Dreamers The Story of Hinewai Reserve and Hugh Wilson https://happenfilms.com/fools-and-dreamers 28 June 6pm – Hollywood Cinema, Sumner 30 June matinee – Akaroa Cinema	Public
10 July CWMS Chairs Deputy Chairs meeting	
16 July Bank Peninsula ZC meeting Little River (TBC)	
20 August Banks Peninsula ZC meeting	
4 August Orton Bradley Park community Planting 10:00am-12:00noon	<p>Trees for Canterbury is planting over 400 native plants at Orton Bradley Park on Sunday 4th August beginning at 10.00am as part of their continuing community revegetation and biodiversity enhancement project. The planting will start near the main buildings. Park by the historic school house. This key event is part of an ongoing partnership between the community, Trees for Canterbury and the Orton Bradley Park Board.</p> <p>Come and make a day of it. There is plenty to see and do in the Park. There are excellent walks to various special features, wonderful collections of mature trees, picnic areas and a children's playground. If a more sedate day is needed, there are the wonderfully restored buildings and displays of old machinery, a working water wheel installed in 1887 and used to generate electricity from 1901.</p> <p>What to bring: A spade, a picnic lunch, and lots of family and friends.</p>
Okuti River Project Planting Day Sunday 25 August 2019	Wairewa community, ZC and friends

	
17 September Banks Peninsula ZC meeting	
12 October Local Government Elections	

3. UPDATE ON MATTERS RAISED AT PREVIOUS MEETINGS

Matter	Update
ZC Communications Article on last meeting's catch up on the Little River Rating District and Okuti River Project	Lesley Woudberg (ECan) – pending
Q&A's for Landowners <ul style="list-style-type: none"> • Immediate Steps funding • What landowners can do without consent 	Ben, ECan and CCC staff – draft completed CCC brochures?? - Peter Kingsbury pending
Communication Possum control BP	Background information provided at May meeting Draft article submitted to Akaroa Mail in June (Gina)
ECan Pest Free Banks Peninsula Rating District	

Pest Free Banks Peninsula

- Pest Free Banks Peninsula is a community-led, agency-supported initiative that is aiming towards a Banks Peninsula that is effectively free of animal pests by 2050. Over the first five years, the initiative will focus on eradicating feral goats, and controlling possums, feral cats, mustelids and rats.
- Environment Canterbury has introduced a new Pest Free Banks Peninsula rate through its 2019/20 Annual Plan, which will replace the existing Banks Peninsula possum control rate. The Pest Free rate will apply to all rateable properties on the Port Hills, Banks Peninsula and

Kaitorete Spit. It will be combined with revenue from general rates (collected across the whole of Canterbury) to contribute a total of \$600,000 towards the Pest Free Banks Peninsula initiative.

Environment Canterbury Biosecurity Advisory Groups

- Environment Canterbury is reviewing the structure of its Pest Management Liaison Committees. These groups are Environment Canterbury's touchpoint with the community for its regional Biosecurity programme. The aim of these groups, which will be renamed Biosecurity Advisory Groups, is to establish biosecurity champions in the community, provide a community forum for pest management, and assist with providing local intel on new arrivals/occurrences of harmful organisms.
- The Banks Peninsula/Christchurch Biosecurity Advisory Group has a different role to the Pest Free Banks Peninsula initiative and will cover an area which includes and extends beyond the Pest Free Banks Peninsula area. The Group will support and provide advice to Environment Canterbury's wider Biosecurity programme, which includes a broad range of pests (including both plants and animals).

Attachments

No.	Title	Page
A ↓	Zone Committee Update Reports to CCC 23 May 2019	25
B ↓	Media - Doing a Zealandia on Christchurch's Port Hills: New Eco-Hub Move Mooted 4 May	31
C ↓	Media - Planting trial	39
D ↓	Media - New Target to Curb Toxic Stormwater 8 June 2019	40
E ↓	Banks Peninsula - Actions at June 2019	41

**Water Management Committees¹ Update
Christchurch-West Melton, Banks Peninsula, Selwyn Waihora**

Reference:

Contact:	Enter email address	Enter phone.
Lesley Woudberg	lesley.woudberg@ecan.govt.nz	027 706 4273
Miria Goodwin	miria.goodwin@ecan.govt.nz	027 809 6991
Diane Shelander	diane.shelander@ccc.govt.nz	03 941 8304
Peter Kingsbury	peter.kingsbury@ccc.govt.nz	03 941 8487

1. Purpose of Report

This report updates the Christchurch City Council on the work of the three water management committees operating within the greater Christchurch City area for the period March – May 2019.

2. Recommendations

That the Council;

- a) Receives the report
- b) Notes the work of each water management committee.

3. Christchurch West Melton Water Management Committee

The Christchurch West Melton Zone Committee have spent much of their time in the early part of the year out and about in the community (eg. Riccarton Mall and Estuary Fest) talking about what it means to become a Stormwater Super Hero.

The latest Stormwater Super Heroes are the Storminator™ Team from the University of Canterbury who invented a device that can be retrofitted to downpipes to remove zinc contaminants. The Team received the Innovation Award at the annual Stormwater Conference in Auckland.

The ZC also joined with the Waterways Centre at the University of Canterbury, Christchurch City Council and Environment Canterbury to host two bus tours telling the “Christchurch Water Story” from the banks of the Waimakariri River to the stormwater treatment plant at Bell Creek, Lower Heathcote, and everything in between.

Approximately 70 people took the opportunity over two consecutive Saturdays to join the tours.

¹ Water management committees are joint committees of Environment Canterbury and territorial local authorities. They are established under the Local Government Act 2002. Their purpose is to facilitate community involvement to give effect to the Canterbury Water Management Strategy.

Along the way, participants learnt about how Christchurch City was vulnerable to flooding from the Waimakariri River due to its positioning on an alluvial fan and the flood protection measures in place.

Participants were also able to see what unconfined and confined aquifers looked like and how the water moving through the groundwater system remained clear and of a high quality between the Waimakariri River and Redwood Springs.

However, the visit to Bells Creek in the afternoon told a different water story.

Stormwater from the buildings and roads in the CBD flows directly into Bell's Creek. Consequently, the creek has become polluted with heavy metals such as copper, zinc and fine sediment and can't support much aquatic life.

The tour concluded with a visit to a former football field turned retention basin and one day urban forest in Linwood that will help filter contaminants from the water from Bell's Creek. A final stop was the Christchurch City Council's new stormwater treatment plant at the bottom of Bell Creek which removes the heavy metals from the water before pumping it out to the Heathcote River.

Those on the tour also got to see some of the new wellheads Christchurch City Council is installing so chlorination is no longer needed. People got to ask questions directly to council staff regarding the chlorination of the city's water.

Participant John van Garderen said he learnt more than he expected to on the field trip. "To be placed at the riverbank of the Waimakariri and then follow a drop of water through the processes to my city home tap, with all the considerations needed to supply that valuable resource, became to be seen by me as a privilege we have this water, rather than a right. That it can arrive clean and drinkable, by means of careful control and considerations of protecting the water environment by the combined Christchurch City Council, Environment Canterbury and engineering interests is remarkable," John said.

Julia from the Styx Living Laboratory said the water zone committee's idea of taking people out and showing them first hand where Christchurch's drinking water came from was "brilliant". "The fact that there was plenty of time for questions was great, especially with sensitive issues like the chlorination of the water," she said.

Dirk van Garderen said he enjoyed seeing and experiencing some of the challenges as well as triumphs involved in supplying Christchurch's water.



Christchurch Water Story – Bus Tour participants at Redwood Springs March/April 2019

4. Banks Peninsula Water Management Committee

In April the Banks Peninsula zone committee caught up with some old friends in Little River and Okuti Valley.

In 2014 the Little River/Wairewa catchment suffered three 100 year floods in the space of two months. The community, supported by the Akaroa Community Board and the zone committee worked together to form a special rating district across the catchment to undertake work to mitigate flood events. This work is now into its fourth year.



Environment Canterbury River Engineer talking to Su Young Ko about willow clearance along the Okana River, Little River April 2019

In addition, the committee caught up with Okuti community members for an update on the Okuti River Project. The project has three key objectives; education, environmental monitoring/streamside planting and investigating options for legal protection. The project has received help from City Council Reserve Staff who have fenced off land owned by the Council

so leaseholder's cattle can no longer access the river. The project has also received support from Wairewa Rūnanga, Enviroschools, Lincoln and Canterbury Universities, Department of Conservation as well as Immediate Steps Biodiversity funding from the zone committee and Environment Canterbury.

Since the committee was established in 2011 they have supported 39 biodiversity projects and invested \$802,000 of Immediate Steps Biodiversity Funding. The total value of these projects equates to over a million dollars as applicants must contribute at least a third of the total cost of the project. The committee will be reviewing a further six funding proposals during its May meeting.



Members of the Banks Peninsula Zone Community with Alison Evans from the Okuti River Project 2018

5. Selwyn Waihora Water Management Committee

The Selwyn-Waihora Zone Committee has arranged its 2019 meetings to ensure they focus on all of the CWMS targets at some point in the year, and on important themes for the committee. They have also decided to meet in locations throughout the zone to ensure strong community engagement.

In March, with a focus on targets of water use efficiency, irrigated land area, energy security and efficiency, regional and national economies, and environmental limits, the committee hosted a panel of speakers from industry groups – Fonterra, Synlait and Central Plains Water. The committee heard about progress towards meeting environmental and CWMS-related goals, and were able to ask questions about challenges and successes for these groups.

In April the committee met at Wairewa Marae in the Banks Peninsula Zone. They explored Birdlings Flat, discussed similarities and differences between the two zones, and practiced their mihi. The meeting included an overnight stay on the marae, and committee members learned about mahinga kai through an exciting night trip to catch tuna/eels.



The zone committee's temporary working group (the Selwyn River/Waikiriri Plan Working Group) has been working hard on their roadmap for the Selwyn Waikirikiri River. In June the working group will propose to the zone committee a roadmap to achieve a healthy Waikiriri/Selwyn River with healthy people. The working group is made up of a range of interests including zone committee members, rūnanga, farmers, researchers, non-government organisations, community groups and local government, and has to date focused on identifying what a healthy Selwyn/Waikirikiri River was and could be.

The committee has also:

- hosted a planting day with Dairy NZ staff at a spring-head that forms an important part of their Swimmable Selwyn@Coes Ford project
- presented their 2018 Annual Report to CCC, SDC and Environment Canterbury
- contributed to the Christchurch City Council's Integrated Water Strategy
- helped with the hikoi/first day of the Untouched World's annual Te Waihora Waterwise programme
- Joined the Regional Committee's farm-visit to look at 'Farm Environment Plans and Audits – are they just more paper or are they prompting real change?'
- Publicly profiled two new members of the committee to help raise awareness about the zone committees and encourage others to join committees.



Doing a Zealandia on Christchurch's Port Hills: New eco-hub move mooted

John Mccrone 04:00, May 04 2019

The idea is being floated. Why not turn Christchurch's Port Hills into an eco-sanctuary? JOHN McRONE talks to those behind the proposal.

This year they want to make a serious start. Turn a large chunk of Christchurch's Port Hills – south of Dyers Pass, anyway – back into predator-free native forest.

Professor David Norton, of Canterbury University's school of forestry, is fired up. In February, on behalf of the Banks Peninsula Conservation Trust, he organised a meeting of local ecologists and the idea got a ringing endorsement. Norton says Wellington has its Karori sanctuary spreading not just bellbirds and tūi, but kaka and even now possibly hihi (stitchbirds) and tieke (saddlebacks) across the city. Healthy bush produces a halo effect.

So why shouldn't Christchurch aim to do the same, using its craggy backdrop of slopes to create a "Southern Port Hills Hub" – a nature park to funnel native bird life back into the city? A comment at the meeting crystallised it for him, says Norton. Imagine flocks of kererū (wood pigeon) as a normal sight about town.

"At the moment, go to Cashmere, you'll see the odd bird. Or at Living Springs over the hill, you'll see flocks of 10 or 20. But if you go back to historic records, there'd be hundreds. So think about having flocks like that threading through the city. It'd be awesome," he enthuses.

Norton says before humans arrived, the entire crater rim was solid podocarp forest. That was its look all the way to Godley Head. These days, there are only a few gullies of the Port Hills with a remnant stand of tōtara, mātai and rimu. Apart from his PhD students, not many people would even know where to find them. With an eco-sanctuary there is no reason all kinds of native birds wouldn't return to the edge of Christchurch. "Banks Peninsula used to have the full complement of forest-living species."

As in Wellington, low-skimming troops of kaka could become a regular sight in back gardens – even if their mischievous lead-stripping and blossom-nibbling habits might create a few mixed feelings.



IAIN MCGREGOR/STUFF

Professor David Norton of Canterbury University's school of forestry wants Christchurch's Port Hills turned into an eco-sanctuary.

Riflemen, weka, our native falcon (kārearea), orange-fronted parakeets (kākāriki), as well as smaller birds such as robins and tomtits, and native wildlife like weta and geckos, could all be back in numbers on the city's doorstep, Norton says.

Well, it might take a hundred years for mature forest to cover the flanks of the Port Hills. This would be a long-term project. And also he has to admit the dream has been shot down before. The Summit Road Society, one of New Zealand's longest-established conservation groups, was pushing for something similar when it was calling for the Port Hills to be designated a regional park in 2005.

However now, in a rebuilding city, the time feels more right. There might even be some cash around with the Government's predator-free New Zealand pledge and Shane Jones' "billion trees" fund. The big issue is figuring out the politics of how to promote such a plan. Norton acknowledges it will be messing with the familiar. People are used to what is already there on the hills and might not like change.

Also, some might see the Port Hills project clashing with Christchurch's other current eco-sanctuary ambition – the talk about doing something adventurous with the Avon River red zone. So right at the moment, there is a bit of a delicate public relations dilemma about how best to get this particular initiative rolling.

TALKING PRACTICALITIES

Where has the idea come from and what would be the actual plan?

Ironically, the group behind the move – the Banks Peninsula Conservation Trust (BPCT) – was formed originally by farmers and landowners to fight off an earlier "greenie" district plan change.

In the late 1990s, before it became absorbed into Christchurch City Council, the Banks Peninsula District Council was trying to drop a new set of biodiversity regulations on the peninsula. BPCT was set up to put a stop to that.



JOHN MCCRONE/STUFF

Nature deficit syndrome: More of Christchurch's Port Hills could be like this Omaha Bush Reserve scene.

Norton – now BPCT's ecology adviser – says the stoush was settled by agreeing a voluntary approach, led by the trust, which struck a balance between environmentalism and farming. That accord has continued to evolve. In 2016, BPCT came out with its 2050 Ecological Vision for Banks Peninsula. Then Associate Minister of Conservation Nicky Wagner did the honours at the launch, giving it official approval.

Core to the 2050 Vision was the establishment of regenerating blocks of native bush that would be at least 1000 hectares in size – islands of forest cover that could spread wildlife through the halo effect. Hinewai Reserve behind Akaroa was the starting point. Neighbouring farmers now co-ordinate their pest and weed control over some 13,500ha as part of the trust's Wildside Project.

Norton says BPCT sees its Southern Port Hills Hub proposal as the obvious next step. The idea has been "soft-launched" for some time. Drafts have been circulating. But this year the intention is to set up its own trust to run the project. It could all come together quickly if there is a groundswell of public support.

Norton says the first thing to make clear – and forestall possible concerns – is where the forest would go. BPCT is talking about the southern half of the Port Hills, starting at Sugarloaf Reserve and running down to Gebbies Pass.

Over on the Lyttelton side of the Port Hills, it could be restored native bush right the way around. "That side, because it is cooler and wetter, will go into forest well. The Port Company is putting money into restoration projects there and it's revegetating quite rapidly." But Norton says BPCT would have war on its hands if it was pushing for major change to the familiar yellow tussock and sheep-grazed grass of the sunny slopes immediately behind Christchurch City.

He says the hills might have once been bush right to the harbour head. However from an ecological perspective, that stretch has no special merit now and can remain open views and trails. Even the tussock is more an aesthetic choice.

"Its value to the city is recreational. The tussock's not a biodiversity issue at all. There aren't any rarities there. It's not like, say, an alluvial grassland in the high country which actually has threatened species." So the area proposed to be managed for bush is unlikely to be controversial. But Norton says where the plan could stumble is that it has the potential to step on so many people's toes.

He reaches for a set of maps that BPCT has prepared. Coloured blocks show how the Port Hills are a jigsaw of different ownerships.



SUPPLIED

The familiar view: Looking east to the heads from Sugarloaf, yellow tussock slopes will remain.

Christchurch City Council (CCC) is a big player, having taken over a number of farms as recreation areas. The Department of Conservation (DOC) also has its sprinkling of reserves. The Summit Road Society is another key stakeholder in being responsible for Ohinetahi and Omahu bush – two existing bush restoration projects – as well as its newly acquired Linda Woods Reserve, 233ha of grassy valley behind Ferrymead.

Scattered through all this, down to Tai Tapu, are then the private landowners – farmers and lifestyle block owners – on runs large and small. Plus, of course, the boundary of Selwyn District Council takes in the Gebbies Pass end of the hills. And Environment Canterbury (ECan) has the regional mandate for any initiatives involving biodiversity.

Norton says this is one reason nothing has happened in the past. Too many different groups and organisations for anyone to make the move. Wellington just had a single landowner in the council having to take a decision on its Karori reservoir Zealandia project. "That is the challenge – what would make it so different to other conservation projects in New Zealand. There's such a huge diversity of land tenures. Councils, Crown land, trusts, QEII covenants, private land generally."

For this reason, BPCT is looking to set up a new independent trust to lead the eco-hub proposal. "It needs its own umbrella group that can take it and really drive it."

Norton says plenty of restoration work has been happening on the Port Hills, but it has been piecemeal – everyone doing their own thing – as no single party has had the clout to promote a shared long-term strategy. And any plan will need to represent all interests as it is basic to the proposal that there will continue to be farming, recreation and other competing activities in the area.

"We're not talking about solid forest over all this, but patches of forest that allow the animals to move between them, with the intervening land managed sympathetically.

"Somebody could still have a sheep and beef farm, yet they'd be doing predator control over it so pests aren't invading the adjacent areas," Norton explains.

The job of an independent trust would be to create the framework, providing landowners with guidance and support in terms of the tree-planting and pest strategies.



SUPPLIED

Imagine flocks of kererū. A Port Hills eco-hub could support gaggles in their hundreds.

"It would be a group that represents all the parties. I don't think we'd want a prescription that you will set stoat traps every 20 metres, possum traps every 200m, or whatever. But rather, here's our goals. And we might all take different ways getting there."

TACKLING THE PIGS AND DEER

Predator control is going to be the big thing. Norton says a Port Hills eco-hub is going to need two organisations really.

A trust would oversee the general management of the strategy – doing the background work like helping source seedlings and dealing with planning policy. But on the ground, there would have to be a well-funded network doing the pest eradication and any fencing.

There are worse problems than most folk realise, says Norton. As well as rats, stoats, ferrets, possum, hedgehogs, wasps and feral cats, the Port Hills also has a resident population of pig and deer to contend with.

"People might not see them. But deer are a huge issue," he says.

The story goes that a game park near Tai Tapu went bust a while back. The gates were opened and the deer were left to run wild. Today, they even swim across the bay to Quail Island and spoil the restoration efforts going on there. "The people who own some of that land now, they shot over 100 deer off their farm and they're still going for it. They're all through the pine plantations and everywhere."

Norton says pigs have become an even more recent nuisance in the Port Hills. The suspicion is hunters have been deliberately seeding the area for their own sport. "If you've shot a sow on a trip, the piglets are easy enough to round up and stick in the back of the ute. It's like the wallabies being spread about down south because there are people who want to hunt them."

Norton says this is why a collective effort is necessary to ever do anything about transforming the Port Hills back to healthy bush. While parts of the eco-hub might be fenced and intensively trapped to create bird havens, it is going to be largely an open mix of forest and farmland. So everyone would have to be contributing towards pest control, he says.

The Summit Road Society has already begun promoting its own Predator Free Port Hills initiative. Launched in 2016, the plan is to have all those living along the urban fringes of the Port Hills – on both the Lyttelton and Christchurch side – doing backyard trapping. If even one in every five households can be persuaded, it would create a citizens' ring fence.

Then last November, Norton says, the Government signed an understanding with BPCT and local authorities to remove all pest animals from the 115,000ha of the entire peninsula by 2050. Hinewai's Wildside and the Port Hills were named as the trial areas where work would start. So it is gaining momentum, says Norton. However as yet, the money hasn't come through.



JOHN MCCRONE/STUFF

Getting serious about trapping. Summit Road Society responsible for looking after Omaha Bush Reserve.

"The trust's trying to latch onto the funding around Pest Free New Zealand. It didn't get through on the first round of grants, but it's actively looking to develop on that."

BPCT chair and Christchurch environment lawyer Mark Christensen says it is a similar story with the One Billion Trees Programme funding. Nothing yet. But the allocations are just getting started.

Christensen says it will cost about \$15 a seedling to plant new native forest on the Port Hills. "That includes the aftercare costs – the watering and weeding." So this year is a good time to be launching a Port Hills project. He is also talking to corporate sponsors who might want to invest in the Port Hills as part of their Carbon Zero off-sets.

The Port Hills eco-hub has the advantage of scale and visibility, Christensen says. It is as big as anyone else is thinking of doing and can be seen from the immediate city. The impact it would have on Christchurch tourism and the welfare of its people is obvious. So if a convincing case can be made, one that has support from all the Port Hills' many stakeholders, then there is every chance of it happening, Christensen believes.

LESS THAN THRILLED

Will everyone come to the table? BPCT has identified about 50 significant private landowners who would have to be persuaded. And other players – like CCC – might not be in a hurry to commit ratepayers to a project that could quickly get expensive.

The largest landowner happens to be the Graham family, who have lived on the 1400ha Ahuriri sheep and beef farm near Gebbies Pass for five generations.

Peter Graham did not sound too thrilled when told of the proposal. He says he has soured on conservation types since he put part of his farm – in fact the gully of old trees that Norton's students study – into one of Canterbury's first QEII protection covenants some 40 years ago.

"The problem is it's given me no green brownie points. Whenever I try to do anything, like put in a commercial forest, the conservationists just oppose me. So it feels like it's been a one-way street."

However Graham says perhaps BPCT can bring landowners on board if it is able to provide funding for fencing and trapping, or offer other worthwhile trade-offs. Deals could be done, he says. Selwyn just happens to be considering its district plan at the moment, for instance.

Perking up, Graham says: "I would be happy to provide – say, 200ha – at the top of my farm along the skyline, if at the bottom I could then subdivide 4ha blocks where currently I'm not able to."



GEORGE HEARD/STUFF

Varied landscapes: Summit Road Society's Bill Woods (l) says he wouldn't want it all bush.

Others that BPCT has talked to are already supportive. Summit Road Society president Bill Woods, former Selwyn Mayor, calls the plan exciting. Although he says Norton is right there would be trouble if it didn't also recognise the place of the existing tussock.

"The uniqueness of the Port Hills is its diversity. If the whole of it was like the Waitakere Ranges in Auckland, completely covered in dense bush, we would lose our panorama views." Landcare ecologist Colin Meurk, who has been promoting the Waitākiri Eco-sanctuary project – a 150ha fenced area taking in red zone land in Burwood and Travis Wetland – says he sees the Port Hills hub as a happily complementary initiative.

Meurk says they offer different habitats. Waitākiri would reflect its swampy, estuarine environment. Other kinds of natives, like a forest of kahikatea, would flourish there. Meurk says Christchurch can't have too much. The modern world is suffering "nature deficit syndrome". And these kinds of projects are going to take generations to achieve. "Most of us won't live to see them mature."

So if some new trust can unite the community behind a long-term plan for the Port Hills, that would be terrific, Meurk says. This year would be a good time to make a serious start on that, he agrees.



29 May 2019
Bay Harbour News, Christchurch

Section: General News • Article Type: News Item • Audience : 9,670 • Page: 5
Printed size: 183.00cm² • Region: NZ • Market: New Zealand • ASR: NZD 258
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Planting trial in bid to reduce sediment

A TRIAL is under way to see if roadside plantings can help reduce the amount of sediment ending up in Lyttelton Harbour.

Banks Peninsula's hilly terrain is covered by a windblown sediment, which when exposed to rain and wind, is easily eroded and washes into the many small streams that feed into the harbour.

The Whakaraupō Rd cutting trial is looking at ways to lessen the amount of sediment reaching the harbour's waterways because it's having a negative impact on the health of the harbour.

"The harbour's water quality is deteriorating as a result of too much sediment getting in," said city council head of strategic policy Emma Davis.

By encouraging vegetation to grow and cover the bare ground and slopes beside the roads, the team behind the trial hope to dramatically reduce the amount of sediment getting into the harbour.

"Our team are trialling various ways to use vegetation to cover the bare soil and reduce roadside erosion. This includes applying a mixture of water,



HEALTHY HARBOUR: A trial to reduce the of sediment getting into Lyttelton Harbour is under way.

paper pulp and hardy grass seeds and plant species able to cope with the harsh growing conditions."

The results of the trial will help the city council make better decisions on how it designs and maintain the peninsula's roadsides.

The trial is being run alongside the Whaka-Ora Healthy Harbour Plan to restore the cultural and ecological health of Lyttelton Harbour.

The trial will run until 2021 and is a collaboration between the city council and Environment Canterbury with technical input from EOS Ecology and Landcare Research.



08 Jun 2019

Weekend Press, Christchurch

Author: Paul Gorman • Section: General News • Article Type: News Item
Audience : 87,221 • Page: 3 • Printed size: 337.00cm² • Region: NZ
Market: New Zealand • ASR: NZD 2,342 • words: 580 • Item ID: 1130950999
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Page 1 of 1

New targets to curb toxic stormwater

Council

Paul Gorman

Ambitious new toxicity limits are coming for Christchurch's stormwater, but there are already doubts it can be done.

It is also not clear what punishments there may be if the city fails to meet the new targets.

The Christchurch City Council's new 25-year stormwater consent with Environment Canterbury (ECan) targets zinc and copper in a bid to improve the water quality of the city's rivers.

Copper contaminants come largely from brake pads and eroding building materials, while zinc particles are mostly from older roofs.

When it rains they are washed into stormwater gutters and drains and flow into streams, ponds and rivers, affecting the chemical composition of the water and damaging ecosystems.

The consent replaces more than a dozen individual agreements for discharges across the city and Banks Peninsula.

Its ambitious targets include cutting copper levels in river catchments by 23 per cent in the next four years and by 30 per cent by 2043. Zinc levels will also have to reduce by 15 per cent and 20 per cent over the same periods.

The new consent also requires the amount of total suspended sediment in waterways to drop 21 per cent in the next four years and by 27 per cent by the end of the consent's life. The mega-consent was granted on Wednesday by independent commissioners appointed by ECan.

In their decision, commissioners said the reduction targets for zinc, copper and total suspended sediment were an "overall goal" for the city. If the city council did not meet those targets, it would be in breach of the consent.

The repercussions? The council would have to carry out investigations and assessments and

report back to ECan, the commissioners said.

Freshwater ecologist Dr Mike Joy, of Victoria University of Wellington, doubted the cuts could be made. "You can't get rid of metals from stormwater, you must stop them at source. Central government must set rules on brake pads."

University of Canterbury school of biological sciences professor Jack Heinemann said reducing levels of toxic metals in stormwater would provide several benefits to rivers, lakes and the sea.

Not only were the metals directly toxic to humans and animals, they could affect the effectiveness of antibiotics. The consent hinges on the city council developing

stormwater management plans for seven catchments: Ōtākaro/Avon River, Pūharakekenui/Styx River, Huritini/Halswell River, Ōpāwaho/Heathcote River, Estuary and Coastal, Outer Area, and Te Pātaka o Rākahautū/Banks Peninsula settlements.

The commissioners said more specific cuts to contaminants should be set for the Avon, Heathcote, Styx and Halswell river catchments in their stormwater plans.

City council acting head of three waters and waste Helen Beaumont said the council would include how it would cut key contaminants in those plans.

"Each one will have contaminant load reduction targets, which will contribute to the city-wide total."

The rate of improvement would be assessed five years and 10 years into the consent. "Should the city not meet these standards, then it's at these points that a process will be followed that could end in enforcement action," she said.

ECan said the consent would "future-proof" Christchurch's stormwater network" and improve water quality in some rivers.

Chief operating officer Nadeine Dommissé said the work was "vital" to ensure stormwater did not contaminate the rivers.

'You can't get rid of metals from stormwater, you must stop them at source.'

Freshwater ecologist Dr Mike Joy, of Victoria University of Wellington

Committee	Status	Meeting Date	Report Title / Agenda Section	Resolution / Decision	Action Notes
Banks Peninsula Water Management Zone Joint Committee	DUE JUN 2019	19/03/2019	Okains Bay Drainage Matters - Verbal Update	That the Banks Peninsula Water Management Zone Committee: 1. Ask the Christchurch City Council for clarity on why Okains Bay, plus one other bay, pays a drainage rate. 2. Defer discussion on Action 25 from the Zone Committee's Action Plan to the next meeting.	Information about the drainage rate provided verbally to Committee by Peter Kingsbury. Action 25 to be discussed at the June 2019 meeting.
ACTIONS CLOSED BY STAFF SINCE THE LAST REPORT					
Committee	Closed Date	Meeting Date	Report Title / Agenda Section	Resolution / Decision	Action Notes
Banks Peninsula Water Management Zone Joint Committee	27/05/2019	16/10/2018	Banks Peninsula Stream Labelling Project	That the Banks Peninsula Water Management Zone Joint Committee agree to: 1. Write to the Chair of the Christchurch City Council's Infrastructure, Transport and Environment Committee, copying in Deputy Mayor Turner as the Council's representative, to ask for the streams named in the report to be labelled. 2. Direct staff to work with members of the Council's Te Hononga Committee to ensure that: (a) macrons are used; (b) the correct Maori names are used.	27 May 2019 - Action completed by: John Filsell - The action required the matter being referred to council's ITE Committee. This was completed on 24 April 2019 and superseded by Committee Resolution ITEC/2019/00022 <i>13. Correspondence - Labelling Streams on Banks Peninsula</i> <i>Committee Comment</i> <i>The Committee discussed the idea of labelling streams and queried whether it would be worthwhile to also include information along walking tracks and throughout Christchurch City. The Committee added a third resolution regarding this. Committee Resolved ITEC/2019/00022</i> <i>Part C</i> <i>That the Infrastructure, Transport and Environment Committee:</i> <i>1. Receive the correspondence from the Banks Peninsula Water Management Zone Committee regarding labelling streams on Banks Peninsula, as set out in Attachment A.</i> <i>2. Requests Council staff to report back to the Infrastructure, Transport and Environment Committee on the matters raised in the correspondence.</i> <i>3. Requests Council staff to investigate including information about waterways on walking tracks and in Christchurch City.</i> <i>Councillor Cotter/Councillor Scandrett Carried</i>
Banks Peninsula Water Management Zone Joint Committee	15/05/2019	19/03/2019	Okains Bay Drainage Matters - Verbal Update	That the Banks Peninsula Water Management Zone Committee: 1. Ask the Christchurch City Council for clarity on why Okains Bay, plus one other bay, pays a drainage rate. 2. Defer discussion on Action 25 from the Zone Committee's Action Plan to the next meeting.	15 May 2019 - Action completed by: Liz Ryley - A verbal update was provided to the Zone Committee by Peter Kingsbury about the drainage rate, to the March 2019 meeting.. Action completed. Discussion on Action Plan 25 will be referred to a future meeting.

Banks Peninsula Water Management Zone Joint Committee	29/05/2019	16/04/2019	Part C Recommendation	That the Banks Peninsula Water Management Zone Committee: 1. Request staff to work with river engineers to follow up on the priority work undertaken on the Okuti River, in particular the removal of the willow trees. 2. Report the outcome back to the Zone Committee.	29 May 2019 - Action completed by: Liz Ryley - ECan's River Engineer, Su Young Ko, has been in touch with Alison Evan's Okuti River project to identify any additional problem willows that need to be removed as part of next year's planned work programme.
Banks Peninsula Water Management Zone Joint Committee	6/06/2019	21/05/2019	Immediate Steps Funding Decisions	That the Banks Peninsula Water Management Zone Committee:1. Support the five Immediate Steps Project applications with the 2019/2020 Fund:a. Mabel Hope Covenant \$26,750b. Okuti QEII Covenant \$6,500c. Crown Island Covenant \$25,240d. Big Hill Little Akaloa \$6,000e. Kahukunu Stream Restoration \$30,000 (+ \$10,000 per year x2)2. Request that in future staff provide information on all Immediate Steps Project applications to the Zone Committee early in the process.	06 Jun 2019 - Action completed by: Liz Ryley - Arrangements are in place for project funding. Completed.

10. Workshop - Review of the Banks Peninsula Zone Committee's 3-Year Action Plan

Reference: 19/644502

Presenter(s): Lesley Woudberg, Zone Facilitator

1. Workshop

- 1.1 At the conclusion of the formal meeting, a workshop will be held to review the Banks Peninsula Zone Committee's 3-Year Action Plan, as noted at page 2 of the agenda.

Workshop

Attachments

There are no attachments to this report.