
Banks Peninsula Water Management Zone Joint Committee AGENDA

Notice of Meeting:

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

Date: Tuesday 17 April 2018
Time: 4pm
Venue: Allendale Community Centre, Governors Bay Teddington Road, Allendale

Membership

Members

Gina Waibl - Community Representative
Ian Lloyd - Community Representative
Garrick Thorn - Community Representative
Fiona Nicol - Community Representative
Paula Smith - Community Representative
Pam Richardson - Community Representative
Andrew Turner - Deputy Mayor Christchurch City Council
Elizabeth Cunningham - Councillor Environment Canterbury
Manaia Cunningham - Te Runanga o Koukourarata
Benita Wakefield - Te Runanga o Wairewa
Pere Tainui - Te Runanga o Onuku
June Swindells - Te Hapū o Ngāti Wheke/Rapaki

12 April 2018

Principal Advisor
Peter Kingsbury
Principal Advisor Natural Resources
Tel: 941 8487
Christchurch City Council

Zone Facilitator
Olivia Smith
Zone Facilitator
Tel: 027 886 3949
Environment Canterbury

Committee Advisor
Warren Brixton
Council Secretariat
Tel: 941 8999
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 Banks Peninsula Water Management Zone Joint Committee meeting held on [Tuesday, 20 March 2018](#) 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

Banks Peninsula Water Management Zone Joint Committee OPEN MINUTES

Date: Tuesday 20 March 2018
Time: 5.30pm
Venue: Little River Rugby Clubrooms, Valley Road, Little River

Present

Chairperson	Paula Smith - Community Representative
Members	Gina Waibl - Community Representative
	Ian Lloyd - Community Representative
	Garrick Thorn - Community Representative
	Fiona Nicol - Community Representative
	Pam Richardson - Community Representative
	Elizabeth Cunningham - Councillor Environment Canterbury
	Manaia Cunningham - Te Runanga o Koukourarata - departed at 7.55pm
	Benita Wakefield - Te Runanga o Wairewa
	June Swindells - Te Hapū o Ngāti Wheke/Rapaki

11 April 2018

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

The meeting opened with a Karakia led by Manaia Cunningham.

The agenda was dealt with in the following order.

1. Apologies

The apologies of Andrew Turner and Pere Tainui were accepted.

2. Confirmation of Previous Minutes

Committee Decision

That the minutes of the Banks Peninsula Water Management Zone Joint Committee meeting held on Tuesday, 20 February 2018 be confirmed, subject to name spelling corrections.

3. Matters Arising from the Minutes

Banks Peninsula Conservation Trust

In response to a question as to whether the invitation from the Trust to visit Stony Bay predator fencing work, it was reported that this has yet to be arranged. Facilitator will follow up with the Trust with the suggestion of May for a field trip.

Long Term Plan Feedback

Feedback to the Long-Term Plans has been made to both the City Council and Environment Canterbury.

A letter of support from the Committee for the Little River/Wairewa Community Trust Submission on drainage issues was suggested. The matter was held over until public contributions as members were not aware of the content of the submission.

Retiring Committee Members

In response to a question as to whether the outgoing committee members and Peter Ramsden had been written to, thanking them for their past contributions to committee work, it was reported that this has been done. In addition, "Thankyou" cards will be circulated at the meeting for members to sign.

4. Deputations by Appointment

There were no deputations by appointment.

5. Identification of Urgent Items

Nil.

6. Identification of General Public Contributions

Mac Birch representing the Little River/Wairewa Community Trust advised that the Trust is to finalise its submission to the LTP in the next few days. He related past presentations made on Little River

Village concerns, the main thrust of the current submission being drainage, Te Roto o Wairewa sediment, waste water recycling systems, the Coronation Library and Little River railway buildings. The collection of rainwater into storage tanks and drainage works, might be funded through a drainage rate.

Joint Committee Decision

The Banks Peninsula Water Management Committee invited the Trust to circulate the relevant parts of their submission to committee members.

1. The provision of a letter of support for the LTP submission if committee members support the relevant parts of the Trusts submission.
2. That the committee consider education/incentives for rainwater harvesting investigations

Fiona Nicol advised she is willing to lead the process and email members with the relevant information.

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

Chair

Nominations were called for the position of Chair to the Committee, for the ensuing term.

Manaia Cunningham nominated Ian Lloyd, and this was seconded by June Swindells

Gina Waibl nominated Paula Smith, and this was seconded by Ian Lloyd.

Ian Lloyd withdrew his nomination

Paula Smith was declared elected as Chair of the Banks Peninsula Water Management Zone Committee.

Paula Smith took the Chair

Deputy Chair

Nominations were called for the position of Deputy Chair to the Committee, for the ensuing term.

Ian Lloyd nominated Pam Richardson, and this was seconded by Fiona Nicol

Elizabeth Cunningham nominated Benita Wakefield, and this was seconded by Manaia Cunningham.

Benita Wakefield withdrew her nomination

Pam Richardson was declared elected as Deputy Chair of the Banks Peninsula Water Management Zone Committee.

Regional Committee Representative

Nominations were called for the position of Regional Committee Representative to the Regional Committee, for the ensuing term.

Paula Smith nominated Fiona Nicol, and this was seconded by Manaia Cunningham.

Fiona Nicol was declared elected as Regional Representative to the Regional Committee.

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee elect:

1.
 - Paula Smith as Chairperson for 2018
 - Pam Richardson as Deputy Chairperson for 2018
 - Fiona Nicol as Regional Representative for 2018.

8. Banks Peninsula Zone Committee 2017 Annual Report

Members noted various amendments they would like made to the document, before its release including:

- Removal of repetition – Stream Bank Management
- Inclusion of reference to committee questions on sustainability of forests
- Reference to implementation by management team, should instead be ZIP
- Changes to “template”
- Mention “fire” under key achievements
- Change led by CCC to CCC and Ecan
- “Reducing sediment from roads”- Needs rewording (work with Pam)
- “Progress towards achieving “CWMS targets”- Delete re monitoring fresh water

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

1. decided to receive the 2017 Annual Report, subject to the amendments sought and circulation to members for final sign-off.

9. Facilitators Update 20 March 2018

The report was taken as read.

Matters Arising

Le Bon’s Bay Water Workshop – The proposed workshop is not proceeding

Ian Lloyd suggested that as Pam Richardson has a lot of useful information, it should be followed up on.

Olivia Smith is to report back to Marie Haley and say that committee will not proceed with hosting the workshop in April but are motivated to engage the Le Bons Bay community later this year.

Timing of Meetings - It was left to Olivia Smith to work out a meeting venue calendar with the Chair and Deputy Chair, noting that timing could depend on the whereabouts of the venue and the season of the year.

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the Facilitators report, noting the various action sought.

10. Department of Conservation Update 20 March 2018

Andy Thompson, Operational Manager, Mahaanui spoke on matters covering:

- John Benn's co-ordinating role
- Mahaanui district boundaries and DOC facilities
- Conservation land and marine reserves managed
- Relationships with Runanga and district councils

Key factors of:

- Conservation
- Marine – historic
- Recreation
- Community Function
- Freshwater diversity
- Partnership role with Ministry of Social Welfare

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the verbal update on actions DOC are undertaking to help deliver the recommendations in the Banks Peninsula ZIP and ZIPA.

11. Understanding the drivers of Macroinvertebrate Health Grades for Banks Peninsula Streams 20 March 2018

Dr Tim Davie, Chief Scientist, spoke to his report, providing explanation on:

- Ecosystem Health Monitoring (24 sites in BP)
 - Invertebrate scoring
 - Habitat scoring

- Summary
 - Siltation of stream beds is a key issue
 - Water quality “fair” grading
 - Worth perusing with stream improvements

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the presentation
2. Ask Ian Lloyd to follow up with the Orton Bradley Park (Te Wharau Stream site)
3. Investigate a “Road Show”, to communicate the work being done in streams.

April meeting agenda items were noted as:

1. Nature Agents Programme
2. Farm Environment Plans
3. Septic Tanks – invite District Health Board representative
4. Forestry management on Banks Peninsula

The next meeting of the Committee will be held on Tuesday, 17 April 2018, Allandale Hall (to be confirmed) at 4pm. A workshop will commence immediately before the meeting at 3pm to continue the workshop session.

Meeting concluded at 8.12pm.

CONFIRMED THIS 17TH DAY OF APRIL 2018

7. Correspondence - Letter of Support

Reference: 18/352278

Presenter(s): Olivia Smith

1. Purpose of Report

- 1.1 The purpose of this report is for the Banks Peninsula Water Management Zone Joint Committee to receive an item of correspondence.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

1. [Receive the information in the correspondence.](#)

3. Report

Attachments

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9 April 2018

Little River Wairewa Community trust
Little River Service Centre
lrwctrust@gmail.com

Dear Mac,

Re Zone Committee support for the Little River Wairewa Community Trust submission on drainage, flooding and wastewater.

The Banks Peninsula Zone Committee is a joint committee of the Christchurch City Council and Environment Canterbury. We understand that we cannot make a direct submission to the CCC Long Term Plan however we wish to express support for part of the submission made by Little River Wairewa Community Trust. The relevant parts of the submission the committee support are drainage, flooding and wastewater.

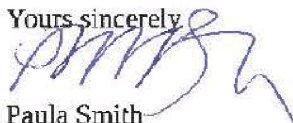
Drainage and Flooding

The issues and solutions outlined in the submission align with the zone committee's ZIP Recommendation 5.1 Flood Mitigation and Sediment Control in the Wairewa ZIP Addendum (p20), in particular "Christchurch City Council should provide in their Long-Term Plan to: maintain and improve CCC's drainage infrastructure in the catchment".

Wastewater

The Banks Peninsula Zone Committee consider wastewater a priority issue on the Peninsula due to the potential risks to water quality, ecosystem health and human health. The submission of the trust requests that a modern, effective wastewater system be included in the LTP. This request is well aligned with Wairewa ZIP Recommendation 5.9- Wastewater Treatment-Phosphorous Removal (p26). This recommendation requests that phosphorous removal and land disposal are considered by council in the design of an advanced wastewater system.

Yours sincerely



Paula Smith

Chair of the Banks Peninsula Water Zone Committee

8. Facilitators Update - 20 March

Reference: 18/351239

Presenter(s): Olivia Smith

1. Purpose of Report

- 1.1 The purpose of this report is to inform the Banks Peninsula Water Management Zone Joint Committee of community engagement events/ relevant updates and actions from previous meetings.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the information in the Facilitator's report.

3. Report

1. Recent Events

Port Hills Reserves volunteer day

14 April at 9:30 am - 11:30 am

Watershed- CWMS Symposium, 9th April 2018.

ZC Chair presented zone committee annual report to Ecan Council on the 12th April 2018.

2. Relevant Updates for zone committee information

Akaroa Wastewater Updates - You can subscribe to regular project updates. Contact Bridget O'Brien on (03) 941 6438 or the project team on akaroawwproject@ccc.govt.nz

3. Actions- Update on matters raised at previous meetings

Matter	Update
ZC Communications	Advert for meeting completed along with an article from the Chair on the health of BP waterways.
Letter of support to little River trust	Complete
Feedback on how ZC input was considered in the Ecan LTP	Letter to Ecan drafted- subject to approval by ZC members
Fieldtrip to Stony Bay	Have contacted the BPCT and they will discuss the May date with trust members and get in contact with us to confirm.
Whakaraupo Catchment Management Plan- Update	A governance group meeting will be held this month to consider the implementation of the plan. Once there is further clarity about

	implementation we will ask someone to attend a future ZC meeting to discuss how the zone committee can support it.
IMS Biodiversity Funding- Allocation options for 2018/2019	The biodiversity officer will present a paper at the May meeting outlining options for allocating IMS funding.
Visit to Orton Bradley Park to discuss ecosystem health	Tim Davie and Ian Llyod visited Orton Bradley on 13 th to discuss ecosystem health results for the stream to get insights from the landowners on any land management changes that may have influenced the results.
Progress on Wairewa Bank Stabilisation Project	Geoff (Ecan Land Management Advisor) is still working to try get relevant permission from DOC and landowners.
Stream Bank Brochure	Final Draft complete. Final version will be included in May agenda and ZC members will be asked for advice on how to best communicate/distribute it.
Zone Delivery Team	The Ecan Zone delivery team will provide a update at the May meeting on how they are progressing with implementing the work programme for Banks Peninsula.

Attachments:

- ZC Meeting Advert
- Chair Item in local paper

3.1

Attachments

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Banks Peninsula Water Zone Committee

Come along and find out about water matters that effect you.

At the next Banks Peninsula Water Zone meeting we will be discussing septic tanks on the peninsula, how we can better manage the impacts of forestry on our waterways and a cool new programme 'nature agents' involving kids monitoring their local waterways on the Peninsula.

There will also be dedicated time for community members to 'have their say'. Hope to see you there!

Date: Tuesday 17th April

Time: 4pm

Where: Allandale Hall Governors Bay

facebook.com/canterburywater

The Banks Peninsula Water Zone Committee is a community-led committee supported by Christchurch City Council and Environment Canterbury.

Christchurch
City Council 

 **Environment
Canterbury**
Regional Council
Kaunihera Taiao ki Waitaha



Stream health declining

Restoring
diversity in
our streams
will take
time, writes
Banks
Peninsula
Water

Management
Zone Joint Committee
chairwoman Paula Smith



MANY OF our Banks Peninsula streams are not as healthy as they should be, and ecological health is declining in some.

This is not good news for our native fish.

Twenty-four streams on Banks Peninsula are assessed each year as part of Environment Canterbury's Aquatic Ecosystem Health programme. When the variable results were presented to the zone committee last November

SOAP BOX

questions arose about why some streams appeared to be deteriorating, including streams such as Waimawete at Allendale (Living Springs) and Te Wharau in Charteris Bay, both of which are now fenced and well vegetated for most of their length, from hilltop to harbour.

Each year the zone committee invests \$100,000 of Immediate Steps funding on Banks Peninsula, mostly on fencing to exclude stock and riparian planting along

streams on private land.

Committee members expected to see improvements in aquatic ecosystem health in catchments which are now well protected.

At our recent March meeting ECan chief scientist Tim Davie explained what can be learned by looking at the detailed macro-invertebrate data.

In both Waimawete and Te Wharau Streams macro-invertebrate diversity is very low.

The few species which are present are those known to be tolerant of sediment. Many of the invertebrates you would expect to find in a healthy stream cannot survive and reproduce where there is sediment coating the stream bed.

Mr Davie concluded that while the fencing and planting in these two catchments is likely to be contributing to a significant reduction of sediment entering the streams, it may take some years before we see the full diversity of macro-invertebrates typical of a healthy aquatic ecosystem restored, especially at the lower reaches of the streams.

•Anyone interested in checking out monitoring results for their local stream can find the results on the LAWA website at www.LAWA.org.nz



POOR QUALITY:

Peraki Stream looks healthy but is classified as poor to very poor in recent aquatic ecosystem health monitoring.

9. Natures Agents Monitoring Programme

Reference: 18/352013

Presenter(s):

1. Purpose of Report

The purpose of this report is to seek input and advice from the Banks Peninsula Water Management Zone Joint Committee on how it can best support the nature agents programme.

2. Staff Recommendations

[That the Banks Peninsula Water Management Zone Joint Committee](#) consider the role it can play in supporting the monitoring and the communication of the results.

3. Report

Nature Agents is a science engagement programme that will set schools up to monitor their local freshwater stream/river over time and reporting information to the wider community. Nature Agents is developed and implemented by EOS Ecology to provide students with authentic scientific experiences of their local streams, gain a better understanding of their local freshwater environments and be able to take effective action for conservation. Nature Agents provides training, resources and support to set the school up for long-term monitoring and data collection on different aspects of their local waterway. The data they collect over time can be a powerful tool for communication and action, as well as contributing to a body of nationally important data.

The Nature Agents kits are funded for the schools so that they can keep their own kit. Currently ECan and Bayer have provided funding for the first nine kits.

In 2018, Nature Agents will be implemented in the Banks Peninsula schools:

- Little River
- Okains Bay
- Duvauchelle
- Akaroa Area
- Governors Bay
- Diamond Harbour
- Lyttelton

We are aiming to set up a support network for the schools to assist with monitoring and communicating their results. For the Zone Committee, there are a number of roles that would provide ongoing support for the schools. Some examples of roles for the ZC might be:

- *Provide assistance with landowner contacts if needed for site access*
- *Suggestions of some worthwhile/interesting sites to monitor (e.g. where you have previously funded projects)*
- *Discuss how children could potentially report to the zone committee*
- *Helping get messages out to the community about the schools activities and results*
- *Discuss ways that the school's information might be used and add value.*

Attachments

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SCIENCE +
ENGAGEMENT



BECOME A 'NATURE AGENT'

WHAT IS THE 'NATURE AGENTS' PROGRAMME?

Nature Agents is an EOS Ecology 'Learning Outside the Classroom' (LEOTC) programme for schools. We engage students with real science – aiming to inspire them to continue making the sciences part of their education and life.

We provide hands-on freshwater science learning experiences for schools. Our programmes leave a lasting impression, and understanding, about how freshwater science impacts their local area and daily lives.

Nature Agents sets your school up for long-term monitoring and data collection on different aspects of your local waterway, adding to a body of nationally important data.

NATURE AGENTS INVESTIGATE THEIR LOCAL NATURAL ENVIRONMENT...THE PROGRAMME INCLUDES:

- teacher planning session (covers discussing your learning outcomes)
- local stream monitoring site location assessment and discussion
- *Nature Agents* monitoring equipment kit and resources*
- 3-hour training session with students and teachers about how to use the monitoring equipment kit and monitor their stream
- information about the programme – health and safety, what to expect, what to do with your data, and other support networks/resources available to you
- up to 7 hours of follow-up support from our scientists for data analysis, or further stream monitoring assistance
- establishment of a support network around your school community, to provide extra assistance/expertise to enhance the programme outcomes.

STUDENT OUTCOMES INCLUDE:

- a deeper understanding/appreciation of their natural environment
- an introduction to scientific principles and critical thinking
- learning how to survey stream health, and assess whether it's improving/declining over time, and compare it's state with other streams
- learning about the relationship between stream habitat quality and the type/number of aquatic invertebrates that live there
- an awareness of the impacts of land-use change on stream health
- collecting and providing information to the local community about the stream
- fulfilling multiple aspects of the NZ Curriculum
- fun and entertaining learning environment.

PROGRAMME COSTS

As an approved LEOTC provider we can deliver *Nature Agents* to your school free of charge. * There is a fee for the *Nature Agents* monitoring equipment kit and resources (which schools get to keep), but there are funding opportunities available, so please talk to us.

To book your class in for semester 1
or 4 in 2018, or for more information
email kirsty@eosecology.co.nz



DECEMBER 2017

10. Farm Environment Plans - Banks Peninsula 2018

Reference: 18/351487

Presenter(s): Ian Lloyd

1. Purpose of Report

- 1.1 The purpose of this report is to provide the Banks Peninsula Water Management Zone Joint Committee with some background on Farm Environment Plans and propose 2 options for the zone committee to consider for 2018.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

1. Recommend a preferred option for Farm Environment Plans.

In my opinion there are two potential options if the Zone Committee wish to progress FEP in 2018 – both of which require resourcing.

1. That the ZC take a lead on FEP's and include both Mahinga Kai and biodiversity – this will require resourcing from both CCC (bio-diversity and ecological support both within the Schedule 3 list and more generally) and ECan (specifically Mahinga Kai support plus the organisation facilitation role Geoff plays). Liaison with Beef and Lamb re their FEP template. Plus a ZC member is required to champion and support the process – which requires considerable input. Essentially the aim would be to hold 2 FEP workshops before the end of 2018 – Whakaraupo and possibly Okains or a wrap up of Wairewa.
2. That the ZC take a less active position on FEP's – and we move forward using the standard Beef and Lamb temple without significant consideration of either biodiversity or Mahinga Kai. Will require no resourcing from CCC and less from ECan (namely the organisation facilitation role Geoff plays) but will still require a ZC member to champion and support the process – which will still require considerable input. Essentially the aim would be to hold 1 FEP workshop before the end of 2018 in Whakaraupo.

The first step under either option is to get a firm commitment from the Councils (CCC and ECan) as to their level of support for FEP in the BP zone and what resources they have available.

I trust this is helpful to the committee and recommend that the committee consider their preferred option.

3. Report

Currently FMP are generally voluntary within the Banks Peninsula Zone other than within the Wairewa Catchment or if the farm is irrigated or very intensive. It is noted that the small number of dairy farms on the peninsula will have FEP as they are generally required by the dairy companies.

The majority of farms on the Peninsula are dryland sheep and beef properties most of which are mainly focused on breeding rather than finishing. There are various FEP templates available however the Beef + Lamb New Zealand Ltd template is considered the most relevant for Peninsula farms.

Beef + Lamb New Zealand Ltd (previously Meat and Wool New Zealand) is a farmer-owned, industry organisation representing New Zealand's sheep and beef farmers. It receives levies from farmers based on stock that is slaughtered. Beef + Lamb have a goal of ensuring that all suppliers have FEP's. They actively encourage farmers to prepare FEP and periodically undertake workshop to support farmers. It is noted that Beef + Lamb New Zealand cover the whole of the country and a spread pretty thin.

To date the following three Beef + Lamb FEP workshops have been held in the zone each of which were attended by approximately 15-20 farmers.

1. Little River in 2015 which was general and involved farmers from all over the Peninsula
2. Little River mid 2016 – focused on mainly Wairewa landowners.
3. Pigeon Bay, May 2017 - focused on both Pigeon Bay and Port Levy. This workshop included some biodiversity considerations led by Christchurch City Council (as part of their District Plan responsibilities). The workshop concluded that doing the FEP's in a bay by bay approach was the way forward and that it was sensible to include biodiversity within the FEP process. Although it is noted that CCC are focused on identified areas of biodiversity included in Schedule 3 of the District Plan which creates some confusion for other areas of biodiversity that farmers identified during the FEP process.

Subsequently there has been a move throughout Canterbury to include Mahinga Kai values within FEP and ECan have recently hired a cultural Land Management officer to support Farmers in the Selwyn Te Waihora zone.

Organising, facilitating and undertaking the previous FEP workshops has involved considerable time input from staff (principally Geoff Thompson of ECan) and Zone Committee Members (Pam and I) plus Beef + Lambs facilitation during the workshop. Plus potential input and follow-up by CCC staff if biodiversity is included

Following the May 2017 Pigeon Bay workshop it was suggested that the following workshops be undertaken, although this would require resourcing.

Area	Workshop location	Suggested Priority
Whakaraupo (Lyttelton Harbour)	Orton Bradley	1
Port Levy - Pigeon	Pigeon Bay hall	Completed
Little Akaloa – Okains Bay	Okains Bay hall	3 – have water supply issues
Lavericks – Hickory	Le Bons Bay School or Hall	4 – follow-up to 2015 meeting
Goughs – Akaroa (wild side and around Akaroa	Akaroa – Council Chambers or sports clubrooms	7
Akaroa harbour around Duvauchelle - Barrys Bay etc	Duvauchelle Hall	5
West Akaroa harbour – southern bays	Wainui – old school	6
Little River	Rugby clubrooms	2 Have already done two but few more FEP's needed.

Under the Whaka-ora Plan there is a commitment to undertake a FEP workshop in Whakaraupo.

Attachments

There are no attachments to this report.

11. Response to Zone Committee Recommendations regarding Onsite Domestic Waste Water Management on Banks Peninsula

Reference: 18/351872

Presenter(s): Olivia Smith, Mike Bourke, Judy Williamson

1. Purpose of Report

The purpose of this report is to outline the response of Councils and the Canterbury District Health Board to each of the zone committee recommendations about onsite wastewater systems on the Peninsula.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

1. recommend that a pilot research/education project be undertaken with one school on Banks Peninsula in 2018. This could include a questionnaire, fun factsheet and an opportunity for the school to present results to the zone committee. Zone committee members to consider what role they could play in this.
2. recommend CCC and Ecan continue to be involved in the Water NZ national on-site wastewater treatment testing programme.
3. recommend that Ecan Zone delivery staff contact contractors and enquire about servicing history/issues on the Peninsula and report back to the committee.
4. consider how information about systems and their maintenance could be communicated effectively to Banks Peninsula communities, particularly target communities like Wainui. Think about the different communication mediums (e.g., social media) and the best voices for these messages to come from. What role can committee members play in this?

3. Background

- 3.1 In August 2017 Andrew Dakers (eco ENG Limited) presented a report to the Zone Committee on onsite wastewater management systems (OWMS). This work was undertaken as it relates to recommendations in the Zone Committee ZIP (rec 7.7, 7.8 and 9.5).
- 3.2 Andrew's report highlighted that there is very limited understanding of the performance of OWMS in Banks Peninsula. Many older septic tanks did not require resource consent and therefore councils do not have a full record of the number and locations of septic tanks on the Peninsula. The only known survey of OWMS is one that was undertaken in 1999 for the Banks Peninsula District Council, which surveyed 71 dwellings in Takamatua. Andrew also noted that there are no specific advice/resources that Banks Peninsula residents can easily access to obtain information about OWMS systems and maintenance.
- 3.3 In November 2017 the Zone Committee agreed to five recommendations and asked councils to work together and provide joint advice on each of these.
 - 3.3.1 Undertake a pilot programme with a local community group to identify actual risks from existing OWMS. Provide the group with a methodology and resources.

- 3.3.2 Engage in a research project to identify the effects of onsite systems on the land. This has nationwide benefits and should be funded as such.
- 3.3.3 Engage in a local research project with the maintenance contractors to determine their assessment of the condition of existing systems.
- 3.3.4 An education project with local schools.
- 3.3.5 Fund the production of education literature for Banks Peninsula residents to assess their own systems, to improve their systems and for the design of new systems.

4. Report

A meeting was held in March 2018 with Mike Bourke (CCC Water and Wastewater Manager), Judy Williamson (Drinking Water Assessor) and Olivia Smith (Ecan Facilitator) to discuss the committee's five recommendations. Following this, further advice was sought from Environment Canterbury consent staff and the water quality team. Key points from the discussion are outlined in the table below.

Canterbury District Health Board	<ul style="list-style-type: none"> • In respect to water supplies, CDHB consider the human health risks from septic tanks on the Peninsula to be low. This is because a number of the larger settlements are serviced by reticulated wastewater networks and other community supplies are located upstream of septic tanks. There may well be situations where the state of a septic tank means that individual properties present risks for those living there. • There are also coastal sites on the peninsula that are monitored for contact recreation and warning signs are put in place if trigger levels are breached. • CDHB do not consider Bank Peninsula a priority area to carry out a large-scale survey like that completed in Darfield in 2013. This involved 106 residents and was completed due to a specific concern about septic plumes intersecting with groundwater and posing a risk to drinking water supplies. This survey was resource intensive (106 interviews each approx. 30mins long). • CDHB are aware of several education resources but none specifically for Canterbury/ Banks Peninsula.
Christchurch City Council	<ul style="list-style-type: none"> • CCC support national onsite wastewater testing programme run by Water NZ. • The draft CCC LTP proposes a number of wastewater upgrades on the Peninsula. • CCC are aware of wastewater issues in Wainui and Takamatua during summer when the population swells. • The proposed upgrade for Akaroa includes provision for Takamatua. The Wainui Stage 2 wastewater proposal is not in the current draft LTP.
Environment Canterbury	<ul style="list-style-type: none"> • The Land and Water Regional Plan contains rules for septic tanks and the suitability of systems is assessed when applications are processed.

	<p>Systems are required to be maintained on a frequent basis and maintenance records must be available to Ecan on request.</p> <ul style="list-style-type: none"> • Staff are unaware of a specific factsheet for system owners. • Ecan support the national onsite wastewater testing programme run by Water NZ. • If septic tanks are old and/or not operating effectively then there is a risk of bacteria, nutrient and organic matter contamination of soil, groundwater and surface water (depending on the pathways available). While <i>E. coli</i> is not a concern to ecosystem health any associated organic matter could result in low oxygen levels and sewage fungus growth.
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Joint response to Zone Committee Recommendations.

In responding to the ZC recommendations, Ecan, CCC and CDHB staff have considered the existing research, risks on the Peninsula, feasibility of actions and resources. Responses are detailed below.

1. Undertake a pilot programme with a local community group to identify actual risks from existing OWMS. Provide the group with a methodology and resources.

Implementing a research/education programme through schools is considered the most effective way to achieve this recommendation (in terms of engagement, staff resource and cost). Schools could provide students with a survey to complete with parents (CDHB/Ecan/CCC to amend attached Darfield questionnaire) along with a simple factsheet (produced by Ecan). Schools could also be provided with an opportunity to present the key findings of the survey to the committee.

There is anecdotal evidence from community members and council staff about wastewater issues in specific areas like Wainui and Takamatua. For example, issues are known to occur in Wainui during the summer period when the population swells. Given this, a targeted education campaign could be undertaken over the summer period, however thought needs to be given to how this could implemented/resourced over the summer period.

2. Engage in a research project to identify the effects of onsite systems on the land. This has nationwide benefits and should be funded as such.

Ecan and CCC, along with other councils in New Zealand, support a national programme to test the actual performance of on-site wastewater treatment units. Councils are one of the main beneficiaries of the national testing programme in that they will have certainty regarding certifying the performance of new on-site domestic wastewater treatment units. Councils consider this programme to be thorough and informative, and see no need to replicate this research.

3. Engage in a local research project with the maintenance contractors to determine their assessment of the condition of existing systems.

There are a small number of contractors that service the Peninsula. Ecan zone team staff to phone contractors and report back to zone committee.

4. An education project with local schools.

Covered in 1 above.

5. Fund the production of education literature for Banks Peninsula residents to assess their own systems, improve their systems and for the design of new systems.

Ecan to produce a simple factsheet. Zone Committee members to consider effective ways to communicate the messages and the best voices to communicate these

Mike Bourke and Judy Williamson will attend the meeting to answer relevant questions may have about the proposed approach detailed above.

Attachments

There are no attachments to this report.

12. Future Management of Forestry on Banks Peninsula

Reference: 18/351389

Presenter(s): Nathan Dougherty

1. Purpose of Report

- 1.1 The purpose of this report is to update the Banks Peninsula Water Management Zone Joint Committee on issues relating to forestry and the Waieke Stream and discuss the new NES for Forestry..

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

1. Support that forestry operations on Banks Peninsula (& other areas of relatively high soil erosion risk in Canterbury) are subject to a risk based monitoring programme focused on these key attributes:
 - o Minimising the potential for erosion from disturbed soils
 - o Managing concentrated flows of water well to minimise sediment-laden run-off
 - o Managing debris in and around waterways to reduce the potential for the accumulation of debris in 'beaver dams'
 - o Managing water flows from tracks and other sources to minimise the potential for debris flows resulting from mid-slope failures.
 - o Managing the sites well to minimise risks from moderate to intense rain events.
 - o Monitoring water quality in the receiving environment especially clarity, to give a clear indication to foresters whether measures in place are effective.
 - o Sites are well managed and ready to cope with large storm events.
2. recommend to senior management within Environment Canterbury that all professional forestry operations on BP (and other foothills sites in Canterbury) should be required to gain resource consent prior to commencement (tracks, stream crossing & harvesting), notably also including for aerial vegetation removal using herbicides, prior to planting. The reason is that no forestry operation observed to this point meets the NES standard for water clarity: "no conspicuous change in water clarity after reasonable mixing"
3. recommend that the Erosion and Sediment Control Toolbox for Canterbury is updated to include best practice guidance and Environment Canterbury's preferences for erosion and sediment control measures for forestry.

3 Report

An incident on the 21st of July 2017 resulted in large volumes of sediment and vegetative debris washing down from the upper catchment onto Loudon farm and Whakaraupo.

The forester should have had resource consent for earthworks and vegetation clearance in riparian areas – however, incorrect advice from Environment Canterbury resulted in the forester acting under the impression that it was a permitted activity.

The cause of the debris flow which resulted in the damage downstream is most likely to have been a slope failure during a very heavy rain event in one of the Waieke Stream tributaries. The slope failure resulted in much higher flows within the stream, entraining debris outside of normal flow paths. An accumulating domino effect then occurred.

While there was a lot of slash on the ground within the forestry area, evidence did not support enforcement action against the forester at a level near where a successful case could be taken.

Environment Canterbury is programmed to carry out inspections of the Waieke stream tributaries, looking for areas of debris risk and erosion risk. We will be working with the land owner and their forester to develop plans as needed to address ongoing risks.

FUTURE MANAGEMENT OF FORESTRY

The National Environmental Standard for Production Forestry takes effect from 1 May 2018. Environment Canterbury is working out exactly how to implement the planning requirements of the NES. A forestry working group within Environment Canterbury is set up. The group is tasked with determining how to implement the NES – planning regulations and interpretations, practically, and with the forestry industry to gain the best results possible.

The NES requires that forestry operations do not cause a conspicuous change in water clarity after reasonable mixing, in the receiving water way. During my checks of a number of forestry operations on Banks Peninsula, Port Hills sites and other areas, I haven't observed any sites that comply with the (as yet not operative) regulation. This is based on sampling and visual observation.

Implementation of and compliance with the NES by foresters will make some improvement in water quality and reduce some of the risks of debris flows. However, while prescriptive, regarding many forestry practices, the NES does not require a range of practices that staff see as important to significantly improve current water quality runoff issues from forestry. I am preparing a draft document which will help foresters implement the practices and compliance staff to know what to look for on forestry sites.

Some foresters are under the impression that they comply with water quality limits in the NES with their current practices. Increasing awareness, understanding and improved practices will take considerable engagement and education. It may also take enforcement action in some circumstances.

Attachments

There are no attachments to this report.

13. Waiaki Forestry, Loudon Farm and forestry on Banks Peninsula

Reference: 18/352150

Presenter(s): Ian Lloyd

1. Purpose of Report

The purpose of this report is to provide the Banks Peninsula Water Management Zone Joint Committee with some background on forestry on the peninsula, Loudon Farm and recommendations for the zone committee to endorse.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

- 2.1 Recommend the following two items to both help the Zone Committee understand the significance of such events and what practical steps can be taken to ideally avoid, but also rehabilitate after such events.
 - a) That ECan and CCC consider working collaboratively to prepare an information sheet covering land clearance and forestry on Banks Peninsula which includes guidance on the consent requirements and industry best practice and which is circulated to landowners.
 - b) That ECan consider further investigating the ecological and water quality impacts of the event that occurred in Waiake Stream and what mitigation/rehabilitation options are available. The object of this is to understand how best to rehabilitate after such events.

In undertaking both pieces of work we recommend that ECan contact other councils particularly Tasman District Council given the recent events from Cyclone Gita and possibly Env Waikato and Env BOP given the extensive forestry in both regions.

3. Report

Given the complexity of the issues associated with forestry I thought it might be useful to the committee to outline my thoughts given I have a number of small woodlots (one of which has been harvested) on my Le Bons Bay property plus I previously worked as an environmental planner for a large forest company (responsible for both obtaining consents for forestry activities and overall environmental performance).

Background to forestry generally and on the Peninsula:

- The soils, topography and climate of the Peninsula means the area is prone to erosion.
- Most of the forestry consists of small farmer woodlots and there are few commercial plantations. Many of the existing wood lots were planted under soil conservation grants in the 1980-90 designed to reduce erosion and are entering their first harvest (typically harvesting around 28 years is the most profitable). There was little thought of harvesting when many of the woodlots were planted. Not harvesting also has its problems.
- Well managed Forestry can effectively reduce erosion. Over a forest cycle (planting to harvesting) a forested catchment is known to produce less sediment and less runoff than a pastured catchment. I believe there is a place for forestry on the Peninsula but care is required when harvesting.

- There are various harvesting methods all of which have advantages and disadvantages. Two main methods
 1. Ground based – uses a bulldozer or skidder to drag logs to the processing site -requires lots of tracking. Branches and slash usually left where trees are felled.
 2. Hauler – used ropes to pull logs to processing site – typically more expensive and there are various methods. No tracks but slash can be swept as the trees are pulled up and more slash accumulates at the processing site.

Cost and environmental performance are the key drivers when selecting a harvesting method typically in that order. Often it is not possible, practical or cost effective to use the preferred method environmentally. In some cases, harvesting will not break even and in the worst cases small woodlot owners will end up paying to have their trees harvested.

- Effective harvesting starts with good harvest planning – deciding location of processing sites, roads and harvesting methods. Timing/duration, climate, extent of the clear fell area are also key drivers. Note harvesting is noisy and can be dangerous.
- In my experience poor environmental performance is more common in smaller woodlots than large scale production type forests.
- In addition to the actual harvesting there are also significant roading, replanting, spray releasing (often aerial), revegetation, wildling pine, monoculture, boundary tree and pollen issues.

Waiaki Forestry and Loudon Farm

I have visited Loudon Farm and have had numerous conversations with the owners Philip and Sarah King and Environment Canterbury staff including both Nathan Dougherty and Steve Firth. I have a number of technical concerns regarding the investigation report prepared by ECan which I have raised with Steve and Nathan directly. I have advised Ecan staff to consider getting the Loudon investigation report independently reviewed by someone who understands forestry and floods as well as the various plan (both CCC and ECan) requirements.

Overall, I feel that the level of forestry performance and what actually occurred (significant debris and sediment being washed down the stream and into the harbour) is very concerning particularly given the recently launched Whaka-ora (Whakaraupo) Plan which targets reducing sediment. It is important that we learn from the event and prevent such events occurring in future.

That it is acknowledged that there is significant concern regarding land clearance and forestry activities on the Bank Peninsula with numerous small woodlots and in some bays (particularly Pigeon Bay, Port Levy, Waiake/Teddington, Wairewa etc) larger stands. What occurred at Waiake Forest and Loudon Farm resulted in significant sediment and debris entering the waterway and downstream coastal environment, such incidents must be avoided in future.

Attachments

There are no attachments to this report.