

**KAIKOURA WATER ZONE COMMITTEE MEETING HELD AT 12.30PM  
ON WEDNESDAY 22 FEBRUARY 2017 AT MEMORIAL HALL SUPPER  
ROOM, ESPLANADE, KAIKOURA.**

**AGENDA**

- 1. Karakia** *page 1*
- 2. Apologies**
- 3. Introductions & Committee Check In**
- 3. Matters of Importance to be raised as Urgent Business**
- 4. Confirmation of Minutes 26/10/2016**
  - *The minutes will be tabled at the meeting.*
- 5. Appointment of Chair, Deputy Chair & Regional Committee Representative** *page 2*
- 6. Public Forum**
  - Opportunity for members of the public to present to the Committee
- 7. Committee Updates** *page 3*
- 8. 2017 Committee Work Programme & Priorities Workshop** *page 19*
- 9. General Business & Future Meeting Priorities**

	<b>Karakia</b>	
<b>OPENING KARAKIA (one)</b>	<b>E Te Atua  Tiakina teora  Manaakitia mai te oranui  Homai he kakano kiatipu ake ai  Tiakina teora  E Te Atua  Amene</b>	<b>O Lord  Guard our wellbeing  Bless us  Give us a seed so that it may grow  Guide and protect us  O Lord  Amen</b>
<b>OPENING KARAKIA (two)</b>	<b>E Te Atua  Manaakitia mai mātou  E kimi nei i tenei taonga  mo te hapori o Kaikōura  Amene</b>	<b>O Lord  Bless us  Seeking this treasure  For the community of Kaikōura  Amen</b>
<b>CLOSING KARAKIA</b>	<b>Kia a tau kia tatou katoa,  te atawhai o to tatou Ariki a Ihu Karaiti  Me te aroha o te Atua  Me te whiwhinga tahitanga  ki te wairua tapu  Ake ake ake  Amene</b>	<b>Let it be with us all  The grace of our Lord Jesus Christ  The love of God  The fellowship  Of the Holy Spirit  Forever more  Amen</b>

<b>AGENDA ITEM NO: 5</b>	<b>SUBJECT: Appointments of Chairperson and Deputy, and CWMS Regional Committee Representative for 2017</b>	
<b>REPORT TO:</b> Kaikōura Water Zone Committee	<b>DATE OF MEETING:</b> 22 February 2017	
<b>REPORT BY:</b> Murray Griffin, Zone Facilitator		

**PURPOSE**

The purpose of the agenda item is to assist the Zone Committee in the process of appointing a Chairperson, Deputy Chairperson, and CWMS Regional Committee representative for 2017.

These appointments are in accord with the Zone Committee’s Terms of Reference, which state that the Committee make these appointments each year.

Both Ted Howard, the current Chairperson, and Matt Hoggard, the Deputy Chairperson and Regional Committee representative, are happy to continue in these roles for 2017 should the Committee be agreeable to this and there are no other nominees for these positions.

Should there be more than one nominee for either of these positions the appointment process shall be undertaken by a simple ballot vote.

**RECOMMENDATION**

That the Zone Committee appoints a Chairperson, Deputy Chairperson and CWMS Regional Committee representative for 2017.

<b>AGENDA ITEM NO: 7</b>	<b>SUBJECT: Committee Updates</b>
<b>REPORT TO:</b> Kaikōura Water Zone Committee	<b>DATE OF MEETING:</b> 22 February 2017
<b>REPORT BY:</b> Murray Griffin, Zone Facilitator	

#### **PURPOSE**

The purpose of the agenda item is to provide the committee with an overview of updates to be tabled.

#### **COMMITTEE UPDATES**

The following updates will be addressed with the committee:

- **Working Group Updates**
  - **Love the Lyell/Waikōau**
  - **Nutrient Management & Water Efficiency**
    - An update on these Working Groups will be provided at the meeting.
  - **Regional Committee** – Matt Hoggard will provide an update on the Regional Committee meeting held on Tuesday 14 February.
    - The following link is to the new ECan website page for the Regional Committee. This link takes you to the agenda papers for 13 December and 14 February Regional Committee meetings.
    - Link:
      - <https://ecan.govt.nz/data/document-library/?Search=regional+water+management+committee%2C+agenda&documentTypes=-1&pageSize=12&start=1&sortDir=desc>
- **Zone Delivery – update**

Kaikōura Zone Delivery Manager, Kevin Heays, has provided an update on the ECan Zone Delivery Team which is provided as agenda item 7–1.
- **Communications – update**

An update on communications is provided as agenda item 7–2 and the Waterwise Brochure is provided as agenda item 7–3 for final sign-off.
- **Action Points from previous meetings** – a short review of the committee’s action list will be provided at the meeting.

#### **RECOMMENDATION**

The Zone Committee are asked to receive these updates for their information, and with reference to the Committee’s 2017 work programme priorities.

## Agenda Item 7.1

### Kaikōura / Hurunui Zone Managers Report to KKWZC – Feb 2017.

Firstly, my apologies for not being here to present this report personally – Melbourne beckoned and my wife and I responded!

The last report from the team was in October 2016-we have all had to make adjustments since then. These include our **roles, our foci and our resources & infrastructure.**

In brief:

#### **Roles**

- Kaikōura's initial total isolation immediately after the November 14<sup>th</sup> Earthquake forced us to reconsider geographical responsibilities and ability to operate as a team and for the Zone committees over both Hurunui and Kaikōura zones.
- It was decided to change my position to Kaikōura Zone focused and to second Jan Crooks from KKHW Bio-security concentrated to Kaikōura based works.  
This was initially planned from 3 months but it soon became evident that a 6 months period was more appropriate.
- Zone team members Jess, Chloe and Rob would remain as the KKZT members primarily and would be present in the zone as soon as access was available and safe. This is now occurring on a regular and scheduled basis.
- The Hurunui ZT is to be still active with Rob, Chloe, Jess and Peter led by Leanne Lye (Northern. Bio-Security Team leader) all based out of Amberley.
- To date, this arrangement has been a success, illustrating that in times of disarray, "keeping it simple" can ensure that the required outcomes can still be met.

#### **Foci:**

- The Special legislation has changed the way we have done things-to a more pragmatic and timely methodology. This has been a conscious decision and directive from our CEO and in some instances allowed via the special legislation.
- A significant part of the team's role is to ensure that these changes in consultation and processes remain environmentally favourable.  
This has led to things still being done, but in a slightly different way-particularly around consenting requirements.
- A conscious decision to work **with** the Kaikōura Community **at their** request was made – particularly in the rural areas. This office's catch phrase being..... "helping people regain their business – THEIR way."
- Public communications around our presence and desire to be of assistance if required 24/7 was distributed and informal feedback indicates a degree of respect for that stance has been gained.
- My role, now re-focused on Kaikōura Zone has changed from working to meet ZC's targets and outcomes to ensuring that ECan's facilities, resources and support are available and appropriately utilised.

- A major piece of technical surveying is being progressed around the Lyell. This should tell us where the Lyell bed now sits and what needs to be regraded etc. to ensure flood mitigation, flats drainage and steady flows to the sea.
- Monitoring the works undertaken at South Bay around the slipways and harbour has been a daily task. These works are going as planned-despite public perceptions.
- To date, Jan spent 3 weeks with the EQ operations centre supporting the public enquiries section and since and alongside her BAU work, has been familiarising and undergoing training in waste management education, monitoring and compliance. This is an addition to her usual role Jan and is closely aligned with EQ recovery work around the Environmental Recovery Group. It is envisaged that Jan will be spending a good 75% of her time in this role when demolition etc. kicks in.
- The team monitoring/compliance personnel have refocused their work to again a more pragmatic role – particularly around rules for stock water, herd movement and effluent disposal/storage. This approach has been taken to ensure that that “business” can operate, albeit somewhat different to usual rules and standards. Each decision has been on an individual basis and contained a good degree of education and proviso’s- usually around environmental harm issues
- Rural contact has been greatly assisted by the Fonterra team. Mike and Libby have responded to any concerns we have passed on and have consistently and regularly shared their experiences and actions with us. This relationship is a great good news story and an example of how relationships can be developed for the betterment of the entire community.
- This has included several on-farm discussions, public meetings and forums around EQ related effects and involved Rural Support, Federated Farmers, Dairy NZ, Beef & Lamb, Rural Women, Well-South etc.
- The team’s Land Manager, Chloe, has left for Europe on extended leave and we have contracted Jodie Hoggard to take up Chloe’s reins for 6 months.
- Jodie will continue the work Chloe did around educating our rural property owners with ECan’s more pragmatic approach to FEP & Nutrient Budget timelines in our Zone, but still be available to any farmer who wants to complete his/her plans.
- She will also be working closely with Fonterra to develop, introduce and support the ‘Waterway Management Plans” with farmers.
- Identifying, recognising, assessing and running with opportunities that the EQ may have given farmers will also be a significant part of the Land Managers role over the next 12 months.
- The EQ of Nov 14 has changed the landscape – in some cases significantly. These have brought about the probable need to change farming methods on those places. Our land managers will be charged with assisting with supporting those changes these could include drainage and/or water storage opportunities, plantings for erosion control, enhancement or profit, wetland development.
- Jess, the Zone Team’s biodiversity Officer (and noted discoverer of the supposedly extinct Clarence Moa) is working closely with Jody looking forward to the remediation, extension and redesigning of past, current and future bio-diversity programmes and projects.
- Jess and Jody will be significant leads in the Lyell Creek Restoration work stream of the Recovery Unit. This will entail, along with other stuff, coordinating and pulling together past,

current and futuristic technical and enhancing information and plans from the various agencies involved – with the final objective of creating an agreed long-term vision and action plan for the creek bed, sides, use and access. Then ensure it happens.

#### **Resources and Infrastructure:**

- Since Nov 14 2016 the team, along with other office staff have moved into the new KDC building. The Beach Road site being sold and leased to NCTIR (Alliance).
- We are now firmly ensconced on the top floor adjacent to KDC offices and reception. This move has already proved its worth – including communications, ease of access to KDC resources and vice versa and a 1 stop shop for the community with things “councils”.
- Aside from the “curiosity” factor, ECan staff in CHCH are very keen to offer their skills, knowledge and presence to support anyone and everyone here in Kaikōura. This has proved invaluable to your Zone Team, other KK based ECan staff, KDC and EQ Recovery Group. The team has been utilising these resources consistently.
- A significant part of that support has also been the appointment of Marty Mortiaux to a 6 month contract here in Kaikōura as an addition to the ZT – 3 days a week here in KK & 2 in Tuam Street.
- Marty’s supporting role will be fluid, but primarily focused on the State Highway rebuild liaison and monitoring alongside relationship development with all agencies working around large recovery projects. This extremely experienced compliance resource will also be closely liaising with Waste Management Recovery, Innovative Waste Kaikōura and NCTR.

#### **Threats/potential issues:**

- Stress levels remain high with some landowners. This could include infrastructure redesigns and rebuilds, changes in land management to accommodate EQ effects etc.
- Past Immediate steps projects may have been compromised as may the will to pursue further works by some landowners.
- Contractors are actively seeking alternative sites to discharge their works “left-overs”. Some land owners may be offering gullies, holes, springs etc to them.
- Public Communications from NCTR are not forthcoming adequately despite my efforts. Resulting in much public misinformation and innuendo. ECan must not become part of those misled public conversations.
- KK officers have yet to take leave since the EQ (except me..... now).

#### **Opportunities:**

- We look forward to the KKZC ratifying and supporting our diverted foci and welcome input into these or others as seen.
- A re-look at the KKZIP-to align new situation/geography with ZC priorities etc.is probably necessary.
- Recognising and capturing opportunities that EQ could be offering the Kaikōura landscape and community.
- Working in an easily accessible collaborative relationship with KDC officers & council.

<b>AGENDA ITEM NO: 7 – 2</b>	<b>SUBJECT: Communications – Update</b>
<b>REPORT TO:</b> Kaikōura Water Zone Committee	<b>DATE OF MEETING:</b> 22 February 2017
<b>REPORT BY:</b> Murray Griffin, Zone Facilitator	

## PROPOSAL

This update provides the committee with an overview of proposed communications actions supporting the Zone Committee's priorities for 2017.

This update will cover the following items:

- Proposed communications priorities – see table below
- The Waterwise Brochure – see agenda item 6–3
- What Next? – other opportunities, good news stories, and issues to be addressed

## WHO

This briefing has been prepared by:

- Gerald Raymond, ECan Lead Communications Advisor, CWMS &
- Tania Butterfield, ECan Communications Advisor

## BACKGROUND

This update aligns with the following Zone Committee 5 Year Outcome and Milestones.

**OUTCOME 8 – To continue to broaden the Kaikōura community's awareness and involvement in water management issues and initiatives.**

### Milestones:

- i. Developed, maintained and implement a Communications Action Plan with a regular media profile for the committee – Kaikōura Star, KWZC Newsletter, Chairs Column, etc.)
- ii. Developing linkages within the community, via groups such as the NM&WE Working Group, the Love the Lyell Working Group and around priorities such as the LWRP
- iii. Youth Engagement plan developed and implemented in support of the KWZC
- iv. Strengthen relationships around joint initiatives for water management with industry and community partners

## RECOMMENDATION

- That the Committee receive this communications update and confirm its priorities the first quarter of 2017.



## Kaikōura Water Zone Committee – Communications Update February 2017

Below is a summary of communications priorities prepared by Tania (Communications Advisor), Gerald (Lead Communications Advisor), Murray (CWMS Facilitator) and Kevin (Kaikōura Zone Manager), for the Zone Committee’s consideration.

<p><b>1. Waterwise Brochure</b></p>	<p>Ready for sign-off and to be distributed ASAP</p>
<p><b>2. Kaikōura Star engagement</b></p>	<p>A new reporter for the KK Star is due to start towards the end of the month. In the meantime Emma is continuing to report for the newspaper.</p> <p>Tania to meet with new reporter soon after they start.</p> <p>Ted Talks: We discussed the possibility of resurrecting Ted Talks as a way to get the zone committee’s profile out there again. Particularly if the committee starts to relook at the ZIP, this column would be a good opportunity to start discussing different ideas etc.</p> <p>Will work with KK Star to get stories about different opportunities, ideas, need for community involvement should a review of the ZIP happen.</p> <p>Earthquake update from ECan scientists: Not directly ZC related, but as an FYI, we’ve discussed getting Marion Gadsby, who has been doing work around the landslips and dams formed after the quake to potentially do a fortnightly or monthly column about what is happening in that space.</p>
<p><b>3. Kaikōura District Council engagement</b></p>	<p>During the quakes, we used Facebook as the main means for getting messages out to the community. As a result, the KDC Facebook page now has a huge following – over 3000 and is a key tool for engaging the Kaikōura community directly.</p> <p>This will be particularly useful for getting ZC and ZT messages out to the community, and will be a good tool to get people engaged in ZC activities.</p> <p>Tania spoke to Bridget at KDC to discuss how we can engage with each other and utilise this space to get ZC, ECan and KDC messages out to people. There was a willingness to collaborate on this.</p>

	<p>KDC has been interviewing for a communications advisor, and as soon as that person is appointed, Tania to meet and have a chat about how we can work together better on these things.</p>
<p><b>4. Community Forum</b></p>	<p>Would the ZC like to consider hosting a community forum, perhaps one evening, where people involved in the earthquake recovery etc come and give some updates/insight as to what happened, and what work is happening now? Marion Gadsby presented to ECan staff last week which was very interesting.</p> <p>We could potentially use KDC's Facebook to live stream any presentations both at a zone committee level and at a community forum level that is of interest to the community</p>
<p><b>5. Kaikōura Storybook page</b></p>	<p>Last year before the quakes, we were going to spend some time promoting this as a resource for schools and residents to see and understand the work of the ZC and what is happening around KK.</p> <p>Do we want to revisit that? Does it need to be revised in light of the quakes? If so, what sort of information do you want on there?</p>
<p><b>6. Community Newsletters</b></p>	<p>Do we want to continue doing these? If so, how often, when and what topics?</p>

<b>AGENDA ITEM NO: 8</b>	<b>SUBJECT: Zone Committee Priorities Review – workshop</b>
<b>REPORT TO:</b> Kaikōura Zone Committee	<b>DATE OF MEETING:</b> 22 February 2017
<b>REPORT BY:</b> Murray Griffin, Zone Facilitator	

#### **PURPOSE**

This workshop provides the committee with an opportunity to consider future water management risks and options for Kaikōura following the earthquakes of November 2016. The workshop will focus on what has changed since the November earthquakes in terms of water management issues, options and priorities.

Furthermore, this workshop will provide the committee with an initial opportunity to review the alignment of the Kaikōura Zone Implementation Programme (ZIP) and the Zone Committee’s 5 Year Outcomes in the context of what has changed for the community and Zone since November 2016.

This workshop will focus on three considerations:

- The **Kaikōura Zone Implementation Programme (ZIP)** originally developed by the Zone Committee in 2012,
- The **5 Year Outcomes and Milestones** developed by the committee in 2015 to guide Zone Delivery,
- A **round table review of other considerations** for the Zone Committee as priorities for its work programme in 2017

#### **BACKGROUND**

To assist the committee considerations of priorities for 2017, two references are provided as follows:

- Agenda item 7–1: **the Kaikōura ZIP Recommendations Review** completed in January 2015
- Agenda item 7–2: **the 5 Year Outcomes and Milestones** from May 2015

#### **RECOMMENDATION**

- That the Committee consider its priorities for 2017 and approve a review and refresh of the Kaikōura ZIP and 5 Year Outcomes and Milestones for Zone Delivery.

---

## KAIKŌURA ZIP – RECOMMENDATIONS REVIEW

This review includes two sections for the committee’s consideration:

**Section 2 of the ZIP**, which presents the committee’s implementation framework – including the committee’s vision for the zone, priority outcomes, and Kaitiakitanga principles is provided below for the committee’s reference.

**Section 3 of the ZIP**, is then presented and includes the 64 recommendations across the five priority outcomes of the ZIP. The workshop will focus on these recommendations and the committee are asked to consider progress based on the following criteria.

### KEY – CRITERIA FOR REVIEW

<b>Blue</b>	Recommendation achieved (at least in part)
<b>Green</b>	A current priority for the Zone Committee
<b>Orange</b>	More information and/or follow up required for the Committee to advance
<b>White</b>	Ongoing and on track
<b>Red</b>	Limited or no progress – difficulties with achieving the recommendation

## 2 Kaikōura – Implementation Framework

### 2.1 Vision for Zone

Our vision for water management in the Zone is:

*Water is the mauri (life) of all living systems as it flows from mountains to the sea (ki uta ki tai) providing for our families and communities. As kaitiaki (guardians) we will ensure the water of the Kaikōura Zone enhances the abundance and quality of life.*

### 2.2 Priority outcomes

The Zone Committee identified the following priority water outcomes that are specific to the Kaikōura Zone derived from the targets and goals of the CWMS.

Priority Outcome	Review
The Zone has <b>quality drinking water</b> supplies so the water provided from community water schemes meets New Zealand Drinking Water Standards	
<b>Protect our (biodiversity) treasures</b>	
Maintain and where required improve <b>water, nutrient and effluent management</b>	
Take an <b>integrated approach to water management of Kaikōura streams, fans and flats</b> to improve health of streams and wetlands while maintaining flood protection, ensuring the area is a great place to live, supports prosperous farming, and supports a wide range of values including tangata whenua, recreation and conservation values	
Manage <b>freedom camping, visitor and infrastructure impacts</b> on waterways	

The Zone Committee considers all five outcomes are important and the list above is not in any priority order. The pathways and recommendations in this ZIP represent an integrated approach to water management and they are not to be considered in isolation. More information on the priority outcomes and in particular the key pathways and recommended actions to progress the outcomes is provided in Section 3.

### 2.4 Kaitiakitanga

The principles of kaitiakitanga are best provided for by weaving them throughout the ZIP and through implementation of the ZIP – not by relegating them into a single, stand-alone section. Therefore, particular issues of concern to Ngāti Kuri that they would like to see addressed have been included in the recommendations.

The Zone Committee recognises the importance of kaitiakitanga to Te Rūnanga o Kaikōura. Accordingly the Zone Committee commit to supporting and progressing all the Kaitiakitanga targets under the CWMS including:

<b>Kaitiakitanga targets</b>	<b>Review</b>
The identification of mahinga kai locations, their restoration and protection	
The abundance and use of mahinga kai will be promoted and developed	
A mahinga kai food gathering standard will be implemented as a water quality monitoring tool	

The Zone Committee recognise that a step in progressing these targets is increasing the understanding of Te Rūnanga o Kaikōura cultural values as they relate to water and commit to supporting this.

### ***Te Rūnanga o Kaikōura goals for water management in the Zone***

The Rūnanga would like to see the following:

- Increase abundance of, access to, and use of mahinga kai;
- Indigenous flora and fauna is maintained and enhanced to ensure mahinga kai opportunities for future generations;
- That all freshwater resources will once again be clean, healthy and fit for human use;
- That the value of water, in its life supporting capacity of all things, is recognised and provided for through the community being actively responsible for its wise management;
- That the community of Kaikōura and our visitors acknowledge, celebrate, learn and understand Ngāi Tahu cultural values and associations with water and the land including the practice of mahinga kai.

With respect to the Zone Committee’s vision (Section 2.1) and the work ahead to improve water management in the Kaikōura are Zone, Ngāti Kuri considers that gifting the status of Kaitiaki to its community is an important step in walking together on the journey to achieving positive outcomes for water.2.5 Communication

Kaikōura people have a strong sense of ownership and care of their environment. It is clear that there is a community need for good communication and engagement on Regional and District Council activities in the Zone and on the reporting of investigation and monitoring information.

## **3 Recommendations**

The following five sections containing the recommendations of the Zone Committee are the heart of the Implementation Programme and represent intertwined pathways to integrated water management and are not to be considered in isolation. There is overlap between chapters and recommendations appear in the section they are most relevant to with no prioritisation in the order of the following sections.

### **3.1 Drinking water**

#### ***Priority outcome:***

*The water provided from community water schemes in the Zone meets NZ Drinking Water Standard.*

## Recommendations

The 'aspect column' signifies the subject of the recommendation and the 'responsibility' column provides direction on the most appropriate lead organisation(s) for delivering on the recommendation. Where more than one organisation is listed, the first organisation will generally take the lead role. The Zone Committee acknowledges that there may be individuals and agencies who will be involved who are not listed.

Aspect	Recommendation	Responsibility	Timetable	Review
1.1 Kaikōura District Council water supplies	Kaikōura District Council continues its work programme to ensure all council community water supplies meet and continue to meet New Zealand Drinking Water Standards.	Kaikōura District Council, Environment Canterbury	On going	<b>Achieved, Fernley is on occasions does not meet standards.</b>
1.2 Other water supplies	Provide updates to Zone Committee on 'networked' drinking water quality in non-Council supplies and ensure that there is good signage where drinking water is below New Zealand Drinking Water Standards.	Ministry of Health, Environment Canterbury, Kaikōura District Council	Annually from 2013	<b>Follow up – more information needed. No updates on this recommendation to date.</b>
1.3 Other Water supplies	Provide updates to Zone committee on self-supply drinking water quality and ensure there is good signage where drinking water is below New Zealand Drinking Water Standards.	Kaikōura District Council, Environment Canterbury	Annually from 2013	<b>Follow up – more information needed. No updates on this recommendation to date.</b>
1.4 Other water supplies	Provide information to ratepayers on the importance of quality drinking water and of water testing, and the results from monitoring, and provide assistance where possible to non-Council supplies to meet New Zealand Drinking Water Standards (where required).	Kaikōura District Council, Ministry of Health, Environment Canterbury	From 2013	<b>Partly achieved, but more information required</b>
1.5 Marae water supplies	Identify and address any requirements with regard to safe water supply at Takahanga Marae arising from the marae being a Civil Defence alternate welfare centre.  Support Mangamaunu Marae in registering their water supply and identify and address any issues to ensure a safe water supply into the future.	Kaikōura District Council and Te Rūnanga o Kaikōura  Mangamaunu Trustees, Te Rūnanga o Kaikōura; Ministry of Health, Environment Canterbury	From 2013  From 2013	<b>Follow up required on the investigations undertaken.</b>  - Clarify Council's contacts  - Some funding may be available

## 3.2 Biodiversity, natural values and mahinga kai

### Priority outcome:

*Protect, enhance and celebrate the Zone's biodiversity/ecosystems and mahinga kai resources and protect mountains-to-sea landscapes while encouraging appropriate and responsible use of our waterbodies.*

### Recommendations: Biodiversity, natural values and mahinga kai

The 'aspect column' signifies the subject of the recommendation and the 'responsibility' column provides direction on the most appropriate lead organisation(s) for delivering on the recommendation. The Zone Committee acknowledges that there may be individuals and agencies who will be involved who are not listed.

Aspect	Recommendation	Responsibility	Timetable	Review
2.1 Lake Rotorua	Develop a relationship with the landowners to promote and encourage a whole catchment management approach to improve water quality and biodiversity of Lake.	Land owners, Environment Canterbury and Zone Committee	From 2012	<b>Achieved.</b>
2.2 Lake Rotorua	Engage with landowners to promote and encourage the consideration of the values in the Canterbury Water Management Strategy in any land development decisions.	Zone Committee, Land owners	2013	<b>Achieved.</b>
2.3 Lake Rotorua	Ensure that the fencing around Lake Rotorua excludes stock from the lake margins.	Department of Conservation	From 2012	<b>Ongoing,</b>
2.4 Lake Rotorua	Improve public (non-motorised) access to Lake Rotorua	Land Owners and Zone Committee	From 2012	<b>Little progress has been made, partly due to caution re: public access and exposure to toxic blooms. Partnership building the priority at this stage.</b>
2.5 Lake Rotorua	Develop public awareness of hazards associated with toxic blooms.	Kaikōura District Council, District Health Board, Land Owners	From 2013	<b>Ongoing.</b>
2.6 Lake Rotorua	Maintain "high naturalness" in Land and Water Regional Plan (LWRP).	Environment Canterbury	2012	<b>Achieved – with the lake defined as a 'Sensitive Lake Zone' in the LWRP. - Cattle have been moved and no longer can access the lake.</b>
2.7 Lake Rotorua	Improve knowledge of lake terrestrial and aquatic ecology through support of appropriate studies.	Environment Canterbury and Kaikōura Investment Trust	From 2013	<b>Ongoing. The Cawthron Institute 3 year research project is a significant work on the lake.</b>
2.8 Native fisheries	Ensure consideration is given to maintenance of river mouth openings in	Environment Canterbury	On-going	<b>Ongoing – would make a great PhD project.</b>



Aspect	Recommendation	Responsibility	Timetable	Review
	<p>regional (river) plans and when granting resource consents.</p> <p>Investigate the need, benefits and risks and consider creating mouth openings, if required at key times of the year, in rivers that have highly valued native fisheries.</p>			
2.9 Native fish	Identify streams that only contain native fish and develop and implement a plan for protecting native fish in conjunction with relevant land owners.	Environment Canterbury, Department of Conservation, Land Owners	From 2014	<b>Follow up required with NIWA, DoC, and MPI.</b>
2.10 Fish passage	Identify if there are any significant native fish barriers in the zone and if possible, rectify and ensure that none are constructed.	Environment Canterbury and Department of Conservation	From 2013	<b>Some progress has been made (Ted's survey). Follow up on the report that has been prepared.</b>
2.11 Fish spawning	Identify, enhance and protect important inanga, trout and salmon spawning areas.	Fish and Game, Department of Conservation, Environment Canterbury	From 2013	<b>Some progress has been made. Follow up to be provided by Robyn Russ.</b> - Follow up with Fish & Game as they will have info on this.
2.12 Birds, reptiles & insects	Identify significant water habitats for native plants, birds, reptiles and insects in the Zone.	Department of Conservation, Forest and Bird, Environment Canterbury	From 2014	<b>Some progress has been made. But this is a big project and there is still significant work that can be done.</b> - Follow up with lead agencies.
2.13 Wetlands	Collate a wetland inventory for the Zone.	Environment Canterbury, Fish and Game, Department of Conservation, Kaikōura District Council	From 2012	<b>No inventory done for inland wetlands. Follow up with Phil Grove (ECan) re: survey work completed to date.</b>
2.14 Wetlands	Identify at least two significant wetlands to be restored and develop an action plan to do so.	Environment Canterbury, Fish and Game, Department of Conservation, Kaikōura District Council	By 2014	<b>Achieved. Robyn Russ to provide an update that details of:</b> - Hales (?) - Linton Downs – to be developed
2.15 Wetlands	Work with landowners to protect remaining wetlands in the Zone.	Environment Canterbury, Kaikōura District	On-going	<b>Ongoing. Follow up with Phil Grove (ECan)</b>

Aspect	Recommendation	Responsibility	Timetable	Review
		Council, landowners		
2.16 Wetlands	Promote and enforce regulation relating to stock exclusion from all waterbodies as referenced under the LWRP.	Environment Canterbury Kaikōura District Council ,	From 2013	<b>Ongoing.</b>
2.17 Clarence/Wai au-toa River	Maintain “high naturalness” status, and prohibit dams on main stem in Land and Water Regional Plan (LWRP).	Environment Canterbury	2012	<b>Achieved.</b>
2.18 Clarence/Wai au-toa River	Seek commitment from relevant agencies to co-ordinate control of significant weeds in the Clarence/Waiau-toa river.	East Coast Community Organisation, Department of Conservation, Land Information New Zealand, Landowners, Environment Canterbury	From 2013	<b>Achieved and ongoing. Steven Palmer’s work in 2014 has advanced this work positively with a high level of support and buy-in from property owners and agencies.</b>
2.19 Clarence/Wai au-toa River	Modify the existing Environment Canterbury weed and pest management strategy so that it is appropriate for the Clarence River catchment.	East Coast Community Organisation, Department of Conservation, Land Information New Zealand, Landowners, Environment Canterbury, MDC	From 2013	<b>Ongoing.</b>
2.20 On-the- ground biodiversity action	Decide Immediate Steps Biodiversity Funding.	Zone Committee	From 2012	<b>Ongoing and a priority for the committee to determine those project areas for future support and funding.</b>
2.21 On-the- ground biodiversity action	Identify priority biodiversity and ecosystem areas. Undertake consultation with landowners and promote community awareness of protecting these areas.	Environment Canterbury, Landowners	From 2012	<b>Achieved by KDC prior to ZIP publication. - Follow up on this work re: Immediate steps alignment</b>
2.22 On-the- ground biodiversity action	Undertake consultation with landowners and promote community awareness of protecting significant natural areas as per the Kaikōura District Plan.	Kaikōura District Council	From 2012	<b>As above for 2.21</b>

Aspect	Recommendation	Responsibility	Timetable	Review
2.23 Mahinga kai and wahi taonga	Identify areas where mahinga kai are highly valued and/or gathering has been compromised and/or wāhi taonga/wāhi tapu sites are at risk from water management. Identify the nature of the risk and develop and implement a plan to mitigate the risk and protect the areas with the relevant land owner.	Te Rūnanga o Kaikōura, Environment Canterbury	From 2013	<b>Ongoing.</b> - <b>Mataitai have been identified, including the Waikoau.</b>
2.24 Mahinga kai	Undertake COMAR on the Oaro, Lyell/Waikoau (see recommendation 3.4), and Kahutara rivers as a priority.	Te Rūnanga o Kaikōura and Environment Canterbury	From 2013	<b>Ongoing.</b> - <b>Committee to receive an update on the Waikoau COMAR in early 2015</b>
2.25 Mahinga kai, land and Sea	Investigate and monitor water quality on water bodies that impact on shellfish beds at mataitai sites and develop plan to resolve water quality issues if deemed necessary to ensure their mahinga kai values.	Environment Canterbury and Te Rūnanga o Kaikōura	From 2013	<b>Follow up on this water quality monitoring.</b>
2.26 Mahinga kai, land and sea	Integrate land and sea management, including through freshwater mataitai for Oaro River and Kahutara.	Te Korowai, Zone Committee, Environment Canterbury	From 2013	<b>Follow up with Te Korowai in 2015.</b>
2.27 Improve knowledge	Compile instream intrinsic values reports summarising information available for catchments in the zone.	Department of Conservation	From 2013	<b>Follow up – with Ted to send a letter to DoC regarding their reports</b>
2.28 Education	Develop local educational resources based on biodiversity and water of Kaikōura.	Department of Conservation, Environment Canterbury, Conservation groups	From 2013	<b>Ongoing – the Wai Water supplement provides an opportunity to develop relationships with DoC</b>
2.29 Amenity and recreational values	Identify the key swimming and recreational areas in the Zone that may not be safe for contact recreation and ensure that; they are on the Environment Canterbury Seasonal Recreational Monitoring Programme; the monitoring regime includes monitoring to microbiological water quality guidelines for recreational areas; and appropriate signage where required is maintained.	Environment Canterbury, Kaikōura District Council, East Coast Conservation Organisation, Hurunui District Council	From 2013	<b>Ongoing – sampling programmes over the summer.</b> - <b>Extend this sampling to Mangamaunu</b> - <b>Follow up on Staggerts Bay (?) and profile for ZC</b>
2.30 River management	Develop a catchment based approach to managing rivers for all the targets under the CWMS, including but not limited to flood protection, gravel extraction, cultural values, protection of native fish habitat,	Environment Canterbury, Kaikōura District Council	Ongoing	<b>Little Progress made to date</b>

Aspect	Recommendation	Responsibility	Timetable	Review
	spawning sites and river bird breeding/nesting sites.			
2.31 Surface Water Quality: Investigation and monitoring	Investigate the impact of chemical and non-chemical riparian weed control on the ecological values of water bodies and develop weed management advice to support best practice for biodiversity and ecological health of water bodies.	Environment Canterbury	From 2013	<b>More information required</b>
2.32 Ground and surface water quality: Investigation and monitoring	Identify, investigate and report on the impact of closed landfills and old sheep dips on surface and ground water quality and develop and implement a plan to mitigate any adverse effects on the environment.	Environment Canterbury	2013	<b>Ongoing. Significant work has been done, with recent achievements including the landfill leachate being mitigated.</b>
2.33 Ki uta, ki tai and beyond	Commit to engaging with Te Korowai on areas of common concern	Environment Canterbury, Kaikōura District Council, Kaikōura Zone Committee, Te Korowai. Ngāi Tahu, Te Rūnanga o Kaikōura	Ongoing	<b>Ongoing. Action items from previous meeting provide a basis for follow up in 2015.</b>
2.34 Hydro electricity	Investigate the possibility of small hydro scheme on streams or rivers in Kaikōura ensuring that any feasibility study includes impact on ecological, recreational, cultural, conservation and health values.	Environment Canterbury, Kaikōura District Council, Mainpower	2013	<b>Ongoing. MainPower confirmed this year with KZC that this was not an options being considered for the foreseeable future.</b>

### 3.3 Water, nutrient and effluent management

**Priority outcome:**

*Maintain and where required improve on-farm land and water management to achieve CWMS targets to deliver economic, social, cultural and environmental outcomes.*

**Recommendations: Water, nutrient and effluent management**

The 'aspect column' signifies the subject of the recommendation and the 'responsibility' column provides direction on the most appropriate lead organisation(s) for delivering on the recommendation. The Zone Committee acknowledges that there may be individuals and agencies who will be involved who are not listed.

Aspect	Recommendation	Responsibility	Timetable	Review
3.1 Efficient water use	Improve understanding of actual water use to better inform assessment of water use efficiency and any resulting actions to improve use.	Environment Canterbury	On-going	<b>Follow up.</b>
3.2 Efficient water use	Promote efficient water use and reduction by urban and rural users (irrigators).	Kaikōura District Council, Irrigation New Zealand, Environment Canterbury, DairyNZ	On-going	<b>Follow up. Farm technology improving.</b>
3.3 Water storage	Preliminary study identifying water storage opportunities in areas where future demand may exceed supply. Any feasibility study should include, though not limited to an impact assessment on cultural, environmental, conservation and human health values and opportunity for hydro electricity generation.	Environment Canterbury	From 2014	<b>Follow up, to be done.</b>
3.4 Water storage, conservation and maintenance of high quality water supplies	Identify catchments where current and future demand may exceed supply and investigate options for on farm storage	Environment Canterbury. Kaikōura District Council, Fonterra, Federated Farmers, Dairy NZ	From 2014	<b>Follow up, to be done.</b>
3.5 Nitrogen management	Intensive farming systems model/measure and report nitrate losses.	Fonterra, DairyNZ	From 2013	<b>Follow up on Overseer and with lead industry partners (e.g. DairyNZ)</b>
3.6 Nutrient budgets and farm environmental plans	Increase the awareness education, training and information sharing to support the use of nutrient budgeting, and farm environmental planning.	Federated Farmers, Beef + Lamb, fertiliser companies, Environment Canterbury, DairyNZ	From 2013	<b>On track.</b>

3.7 Nutrient budgets and farm environmental plans	Develop and implement a programme of Environmental Farm Plans and Audited Self-Management to help mitigate and reduce nutrient losses to water bodies.	Environment Canterbury, Fonterra, DairyNZ, Kaikōura Dairy Company	From 2012	<b>On track.</b>
3.8 Nutrient management	Collaborate with industry bodies and Crown Research Institutes to encourage uptake of emerging technologies in relation to improving farm nutrient management.	Environment Canterbury, DairyNZ, Fonterra	From 2013	<b>Ongoing.</b>
3.9 Ground and surface water: Investigation and monitoring:	Improve water quality, water quantity and ground and surface water interaction knowledge and understanding to adequately inform the Land and Water Regional Plan sub regional planning process for the values under the Canterbury Water Management Strategy.	Environment Canterbury and Zone Committee	Ongoing from 2013	<b>A priority.</b>
3.10 Ground and surface water: Investigation and monitoring	Improve understanding of surface and ground water interaction in any catchment where surface water is 80% allocated or above and report findings to the Zone Committee.	Environment Canterbury, Zone Committee	Ongoing from 2013	<b>A priority.</b>
3.11 Water volume and reliability of supply: Investigation and monitoring	Implement a work program that investigates the future impact of climate change on Kaikōura's ground and surface water resource.	Environment Canterbury	From 2014	<b>Follow up with KDC and ECan</b>
3.12 Sub regional planning process	Ensure that the Kaikōura sub regional planning process is included in Environment Canterbury's Long Term Plan and will commence by 2017 or earlier.	Environment Canterbury	2012	<b>Ongoing.</b> <b>A priority, requiring follow up.</b>
3.13 Surface water; Minimum flow and allocation	Investigate the need and capacity of reviewing current consents to meet the operative flow and allocation regimes in Section 6 of the Land and Water Regional Plan and report findings to the Zone Committee.	Environment Canterbury	2012	<b>Ongoing and follow up on recent request for the committee to assist in building local understanding of these allocation regimes.</b>
3.14 Communication	Communicate all investigation and monitoring of water resources to the appropriate community.	Environment Canterbury, Kaikōura District Council and Zone Committee	Ongoing	<b>On track.</b>

3.15 Communication	Discuss with Environment Canterbury the possibility of establishing a case manager to help consent holders manage complex queries	Environment Canterbury, Kaikōura Zone Committee	2014	<b>On track.</b>
-----------------------	---	---	------	------------------

### 3.4 Kaikōura streams, fans, flats and wetlands

#### Priority outcome:

*Improve health of streams and wetlands on Kaikōura fans and flats while maintaining flood protection, ensuring the area is a great place to live, supports prosperous farming, and supports a wide range of values including tangata whenua, recreation and conservation values.*

#### Recommendations: Kaikōura streams, fans, flats and wetlands

The 'aspect column' signifies the subject of the recommendation and the 'responsibility' column provides direction on the most appropriate lead organisation(s) for delivering on the recommendation. The Zone Committee acknowledges that there may be individuals and agencies who will be involved who are not listed.

Aspect	Recommendation	Responsibility	Timetable	Review
4.1 Streamcare Group	Establish and resource a streamcare group for Lyell/Waikōau Creek.	Environment Canterbury & Zone Committee	From 2012	<b>Achieved.</b>
4.2 School and community involvement	Involve local schools, businesses and communities in improving streams (including clean-ups, planting, weed control, monitoring and raising awareness).	Environment Canterbury, Kaikōura District Council, schools, local businesses	From 2012	<b>Achieved.</b>
4.3 Flood protection	Maintain flood protection for Kaikōura and surrounding area.  Manage floodways and stopbanks for weeds and, where appropriate, for recreation and amenity.  Ensure the protection of cultural values, wherever possible, when managing the river for floods.	River-rating group, Environment Canterbury, Kaikōura District Council  Environment Canterbury and Te Rūnanga o Kaikōura	On-going	<b>Achieved.</b>  <b>Ongoing.</b>  <b>Achieved.</b>
4.4 Cultural assessment	Undertake a cultural assessment and COMAR monitoring of Lyell/Waikōau Creek.	Te Rūnanga o Kaikōura and Environment Canterbury	From 2013	<b>Ongoing.</b>
4.5 Surface Water quality: Investigation and monitoring:	Identify waterbodies that are at risk of high e-coli counts and investigate the source of the e-coli.	Environment Canterbury, Kaikōura District Council	From 2013	<b>Ongoing.</b>

## 5.5 Visitor and transport corridor impacts

### Priority outcomes:

- *Freedom camping and visitor impacts are managed so they do not pose unacceptable risk to community drinking water or to waterways.*
- *State Highway1 and main trunk railway are managed, operated and developed in ways that maintain and, where possible, improve waterways.*

### Recommendations: Visitor and transport corridor impacts

The 'aspect column' signifies the subject of the recommendation and the 'responsibility' column provides direction on the most appropriate lead organisation(s) for delivering on the recommendation. The Zone Committee acknowledges that there may be individuals and agencies who will be involved who are not listed.

Aspect	Recommendation	Responsibility	Timetable	Review
5.1 Freedom camping & visitor impacts	Identify waterways and drinking supplies at high risk from visitor and freedom camping impacts, develop and implement a plan to resolve or mitigate the impact.	Kaikōura District Council and Department of Conservation	From 2013	<b>Not achieved, follow up required.</b> <b>Education programme is a priority in 2015.</b>
5.2 Freedom camping & visitor impacts	Co-ordinate management of visitor and freedom camping impacts.	Kaikōura District Council, Department of Conservation and other agencies	From 2012	<b>Not achieved, more to do on this. KDC to co-ordinate all partners.</b>
5.3 Transport corridor impacts	Regional plan rules, consent decisions and on-going highway/railway maintenance provides for fish passage.	Environment Canterbury, New Zealand Transport Agency, Kiwi Rail	On-going	<b>Ongoing. A report has been completed for corridor impacts to the south of the township (T Howard)</b>
5.4 Transport corridor impacts	Improve the environmental values of rivers, streams, hapua and wetlands crossed by or adjacent to the railway, State Highway and local road network as part of maintenance and development projects.  Manage weeds along highway and rail corridors.	New Zealand Transport Agency and Kiwi Rail	On-going	<b>Ongoing.</b> <b>A priority, requiring follow up.</b>  <b>Ongoing – KDC Bylaw for weed management.</b>
5.5 Transport corridor impacts	Use landscaped stormwater swales to treat run-off from the State Highway and railway where topography allows.	New Zealand Transport Agency and Kiwi Rail	On-going	<b>A priority – requiring a co-ordinated approach.</b>



## Kaikōura ZIP – Recommendations Review Summary

The following table provides an overview of the ZIP Recommendations review undertaken by the Kaikōura Zone Committee.

ZIP Section		Priority Outcomes
Achieved	0	
Priority	0	
Follow-up required	0	
On-going & on-track	0	
Limited/no progress	0	
<b>TOTAL</b>	<b>5</b>	

ZIP Section		Kaitiakitanga
Achieved	0	
Priority	0	
Follow-up required	0	
On-going & on-track	0	
Limited/no progress	0	
<b>TOTAL</b>	<b>3</b>	

ZIP Recommendations	1. Drinking Water	2. Biodiversity, Natural Values and Mahinga Kai	3. Water, Nutrient & Effluent Management	4. Kaikōura Streams, Fans, Flats & Wetlands	5. Visitor and Transport Corridor Impacts	TOTAL	DISTRIBUTION
Achieved	2	8	0	3	0	13	18%
Priority	0	1	*3	0	*3	6	8%
Follow-up required	3	14	*8	0	3	28	39%
On-going & on-track	0	10	*7	*3	*2	22	31%
Limited/no progress	0	1	0	0	*2	3	4%
<b>TOTAL</b>	<b>5</b>	<b>34</b>	<b>18</b>	<b>6</b>	<b>9</b>	<b>72</b>	<b>100%</b>

\* = recommendations with multiple options recorded (e.g. ongoing, a priority, requiring follow up).

## **Kaikōura Water Zone Committee – Five Year Outcomes & Milestones**

### **1) OUTCOME: A safe water supply (meeting NZ Drinking Water Standards) from all community water schemes**

Milestones:

- i. Identify community water supplies and their drinking water standards and ensure standards are met and maintained
- ii. A safe water supply is secured with civil defence capability at Takahunga Marae
- iii. A safe water supply is established at Mangamaunu Marae
- iv. Promote safe and secure household water storage for civil defence emergencies

### **2) OUTCOME: Maintain the unique wilderness and undeveloped character of the Clarence/Waiiau Toa through maintaining biodiversity, enhancing natural values and mahinga kai**

Milestones:

- i. Address the pest and weed issues on the Clarence/Waiiau Toa
  - Establishment of priority areas for the catchment
  - Integrated pest and weed control strategy developed
  - IMS funding for all priority areas implemented
- ii. Options for long term protection of the Clarence/Waiiau Toa high naturalness values will be investigated and a decision reached with key stakeholders

### **3) OUTCOME: Remaining wetlands in the zone are maintained, protected and restored allowing for safe mahinga kai**

Milestones:

- i. Identify all wetland in the Kaikōura zone
- ii. Work with landowners to protect the wetlands

### **4) OUTCOME: Nutrients are being managed to ensure the water quality outcomes on the Kaikōura Plains are at an acceptable level as defined by the Land and Water Regional Plan**

Milestones:

- i. All farmers understand nutrient management and water efficiency and are operating at Good Management Practice (GMP) or better
- ii. The Zone Committee, farmers, and industry have a strong relationship assisting the Kaikōura Plains to work towards meeting the requirements to be a green allocation zone
- iii. 100% of farmers in the Kaikōura Plain's red (and sensitive lake) nutrient allocation zones have Farm Environmental Plans (FEPs) and passing audits

- iv. Improve water quality, quantity, surface and groundwater knowledge (ECan science team, the ZC and wider community) for the zone to inform the Kaikoura chapter of the LWRP

**5) OUTCOME: In-stream ecosystem health is improved to allow for safe mahinga kai and recreational use of the Lyell Creek/Waikōau catchment**

Milestones:

- i. A whole catchment audit is completed to determine ecosystem health, resulting in:
  - o Urban stormwater risks are identified and addressed
  - o Residential issues identified and addressed
  - o Farm and property visits in the catchment identify impacts on and solutions to improve water quality
- ii. A COMAR study is completed for the Lyell/Waikōau to determine cultural values and sites of significant value in order to provide additional protection if necessary
- iii. Lyell Creek/Waikōau meets national recreational water quality standards allowing for safe swimming

**6) OUTCOME: Ensure Kaikōura's Earthcheck status is not undermined by the declining state of waterways**

Milestones:

- i. Identify and prioritise high-risk catchments and waterways to develop a plan to resolve or mitigate impact for high-risk waterways
- ii. Strengthen relationships with the visitor industry to identify infrastructure gaps and visitor needs to assist aligning with Earthcheck
- iii. Review and where required update information available for visitors showing how their behaviour can align with Earthcheck
- iv. An education programme targeting visitors and freedom campers to promote waterway values and protection is developed and implemented

**7) OUTCOME: Environmental values of waterways are not undermined by the transport corridor through the zone**

Milestones:

- i. Strengthen relationships with transport agencies to ensure any development or maintenance projects incorporate environmental values for waterways and wetlands affected by transport corridors
- ii. Identify sensitive catchments/waterways the transport corridor transects
- iii. A weed control programme is established for the highway and rail corridors
- iv. Stormwater and runoff treatments protect environmental values in the zone

**8) OUTCOME: To continue to broaden the Kaikōura community's awareness and involvement in water management issues and initiatives.**

Milestones:

- i. Developed, maintained and implement a Communications Action Plan with a regular media profile for the committee– Kaikōura Star, KZC Newsletter, Chairs Column, etc...)
- ii. Developing linkages within the community, via groups such as the NM&WE Working Group, the Love the Lyell Working Group and around priorities such as the LWRP
- iii. Youth Engagement plan developed and implemented in support of the KZC
- iv. Strengthen relationships around joint initiatives for water management with industry and community partners.