

**KAIKOURA WATER ZONE COMMITTEE MEETING HELD AT 12.30PM
ON WEDNESDAY 26 OCTOBER 2016 AT MEMORIAL HALL SUPPER
ROOM, ESPLANADE, KAIKOURA.**

AGENDA

- 1. Karakia** *page 1*
- 2. Apologies**
- 3. Matters of Importance to be raised as Urgent Business**
- 4. Confirmation of Minutes 28 September 2016** *page 2*
- 5. Public Forum**
 - Opportunity for members of the public to present to the Committee
- 6. Kaikoura Climate Trends and Options –workshop** *page 5*
- 7. Zone Delivery – Quarterly Update** *page 9*
- 8. Communications – Update** *page 10*
- 9. Committee Updates** *page 13*
- 10. General Business & Future Meeting Priorities**

	Karakia	
OPENING KARAKIA (one)	E Te Atua Tiakina teora Manaakitia mai te oranui Homai he kakano kiatipu ake ai Tiakina teora E Te Atua Amene	O Lord Guard our wellbeing Bless us Give us a seed so that it may grow Guide and protect us O Lord Amen
OPENING KARAKIA (two)	E Te Atua Manaakitia mai mātou E kimi nei i tenei taonga mo te hapori o Kaikōura Amene	O Lord Bless us Seeking this treasure For the community of Kaikōura Amen
CLOSING KARAKIA	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	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

AGENDA ITEM NO: 6	SUBJECT: Kaikōura climate trends and options – workshop		
REPORT TO: Kaikōura Zone Committee		DATE OF MEETING: 26 October 2015	
REPORT BY: Murray Griffin, Zone Facilitator			

PROPOSAL

This workshop provides the Committee with an overview of projected climate trends and patterns as a basis for considering future water management risks and options for Kaikōura.

This briefing will cover:

- A global view of water risks associated with climate patterns and cycles
- The current climate context in NZ
- Long term trends with a focus on the East Coast of the South Island
- An overview of options for futureproofing against the negative impacts of future climate trends on the Kaikōura District.

BY WHO

This briefing will be provided as the focus of this workshop by:

*Brett Painter, Project Leader – Assessment & Evaluations
Canterbury Water Management Strategy, ECan*

RECOMMENDATION

- That the Committee receives this briefing to advance the knowledge of climate trends and associated water demand and supply options within the Kaikōura Zone.

BACKGROUND

1. Increasing committee concern over dry conditions across the Kaikōura Water Zone

This year the Kaikōura Water Zone Committee has regularly raised the potential risks of an extended dry period for the District in its discussions. This concern is based on the following review of climate data for the last 24 months:

	Historical Average	Jun14-15	Jun15-16	Jun16-17
June	59	98	28	26
July	94	14	69	17
August	68	19	23	66
September	44	26	131	39
October	65	42	16	33 partial
November	54	50	24	
December	36	44	20	
January	52	14	105	
February	39	16	12	
March	56	14	31	
April	50	25	16	
May	47	12	23	
Totals	664	374	498	
		56.3%	75.0%	

Zone Committee Chair, Ted Howard notes – In the last 12 calendar months, there has been only 1 month where the rainfall exceeded the average, and 7 months where it was less than half the average.

Page 17 of the Kaikōura Strategic Water Study looks at demand modelling and states “Irrigation demands under a climate change scenario are likely to be, on average, in the order of 10% greater than those predicted using historical climate data; however, *extreme years could be significantly greater than this.*” (Ted’s highlight). How much greater, and how frequently, are very big questions. What can be done now and what might we be able to do in the not too distant future are also very important questions.

2. Alignment with the Zone Implementation Programme

The Kaikōura Zone Implementation Programme (ZIP) was prepared in 2012. This briefing aligns with the following ZIP recommendations:

Aspect	Recommendation	Responsibility	Timetable	KWZC ZIP Review January 2015
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	Follow up.
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	Follow up, to be done.
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	Follow up, to be done.
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	Follow up with KDC and ECan

3. Kaikōura Strategic Water Study – October 2015

A preliminary study to identify water storage opportunities and help determine areas where future demand may exceed supply in the zone (as per ZIP recommendation 3.3 above) was completed by Aqualinc in October 2015.

The Kaikōura Strategic Water Study report was presented to the Kaikōura Water Zone Committee on 28 October 2015. Below is the executive summary from this report.

Strategic Water Study – executive summary

This report presents an assessment of the water resources for the Kaikoura water management zone (KWMZ). The study has been conducted to provide fundamental information on:

- The potential long-term requirement for water.
- The capacity of the zone to meet those requirements.
- The water resources that would come under the most stress.

To achieve this we have:

- Used information from the Land and Water Regional Plan (LWRP) regarding surface and groundwater allocations to quantify water availability.
- Examined water use through consents and mapping irrigation within the region.
- Modelled irrigation demand for all irrigable areas within the region.
- Conducted a supply and demand analysis to explore how current allocations might be able to meet future development within the region.
- Explored options (at a high level) to help meet any shortfall in demand through either storage or water transfers.

Key findings of this report are:

- Surface water is currently almost completely allocated.
- Groundwater is currently approximately 50% allocated.
- Most of the current demands are for irrigation (1774 ls-1, 83%), with the next largest demand for municipal supply (274 ls-1, 13%)
- Current irrigated area (3,680 ha) is approximately 21% of the total potential irrigable area (17,285 ha) within the zone.
- Close to half (43%, 7,531 ha) of the zone's irrigable area is outside of a delineated surface water or groundwater allocation zone.
- Key findings about the LWRP maximum available supply compared to potential future demand are summarised in the table below:

		SWAZs	No SWAZ		TOTAL
		GWAZs	No GWAZ		
	Irrigable Area	7,264	2,589	7,531	17,384
Area (ha) that can be irrigated by:	A Block	1,528	176	510	2,214
	B Block	445	0	0	445
	Groundwater	3,004	1,546	142	4,692
	TOTAL	4,976	1,722	652	7,350
% Area that can be irrigated by:	A Block	21%	7%	7%	13%
	B Block	6%	0%	0%	3%
	Groundwater	41%	60%	2%	27%
	TOTAL	69%	67%	9%	42%

- The surface water available in the current LWRP is insufficient to irrigate all of the potentially irrigable areas within the surface water allocation zones – in total, run of river A-Block and stored B-Block allocations can only irrigate 27% of the irrigable areas within the surface water allocation zones.
 - The groundwater available within the current LWRP is insufficient to irrigate all of the potentially irrigable areas within the groundwater allocation zones – the combined groundwater and surface water takes can irrigate 67-69% of the groundwater allocation zones.
 - The combined allocated water resources within the region are only sufficient to irrigate 42% of the total irrigated area.
- Very few options exist for significant storage within the catchment due to the rules outlined in the LWRP. In particular the protection of the Clarence River, which is the major water resource within the region.
 - Some small improvements (~10%) in the irrigable area irrigated could potentially be made by considering storage options for both A and B block allocations. There could also be some potential for transfer of stored water from the Hapuku catchment to meet the shortfall in the Kaikoura-Mt Fyffe irrigation zone.

AGENDA ITEM NO: 7	SUBJECT: Zone Delivery – Quarterly Update
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 26 October 2016
REPORT BY: Murray Griffin, Zone Facilitator	

UPDATE

The Kaikōura Hurunui-Waiiau Zone Delivery Team, which has now been operating since April 2015, was the first of six Zone Delivery Teams to be established in Canterbury to support the region's 10 Zone Committees.

The Kaikōura Hurunui-Waiiau Zone Delivery Team are:

- **Kevin Heays**, Zone Delivery Manager
- **Chloe Armour**, Land Management Advisor, Kaikōura
- **Jess Hill**, Biodiversity Advisor, Kaikōura and Hurunui/Waiiau
- **Robin Hubbard**, Resource Management Officer – Monitoring and Compliance, Kaikōura and Hurunui/Waiiau
- **Peter Taylor**, Resource Management Officer – Monitoring and Compliance, Kaikōura and Hurunui/Waiiau
- **Michael Bennett**, Land Management Advisor, Hurunui/Waiiau

Kaikōura 5 Year Outcomes 2015 – 2020

The Kaikōura Water Zone Committee adopted a set of 5 year outcomes and milestones at its April 2015 meeting. These outcomes and milestones have been used as the primary focus of the work programme for the Zone Delivery Team. One additional outcome 'one-off' projects', was added to ensure all areas of Zone Delivery Team activity are covered.

Progress against the Committee's 5 Year Outcomes and Milestones

- The Zone Delivery Team will provide a presentation overview their achievements and priorities over the third quarter of 2016.

RECOMMENDATION

That the Water Zone Committee receive this Zone Delivery Team quarterly update for their information, and in reviewing the milestones and work programme priorities of the committee's five year outcomes 2015 – 2020.

AGENDA ITEM NO: 8	SUBJECT: Communications – Update and Action Plan
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 26 October 2016
REPORT BY: Murray Griffin, Zone Facilitator	

PROPOSAL

This agenda item provides the committee with an update on communications supporting the Zone Committee's work programme.

This update will cover the following items:

- Communications Action Plan – March to November 2016, provided as agenda item 8–1
- 5 Year Outcomes & Milestones Infographic
- Zone Committee Spring Newsletter
- What Next? – other opportunities, good news stories, and issues to be addressed

WHO

This briefing will be provided 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, 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

RECOMMENDATION

- That the Committee review the communications action plan and confirm its priorities for the remainder of 2016 and first quarter of 2017.

AGENDA ITEM NO: 8–1	SUBJECT: Communications – Update and Action Plan
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 26 October 2016
REPORT BY: Murray Griffin, Zone Facilitator	

Communications Action Plan – 2016

Five Year Outcome & Milestones:

This action plan is aligned with the Committee’s 5 Year Outcomes and Milestones as follows.

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, 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. Strengthen relationships around joint initiatives for water management with industry and community partners

Tactics:

WHEN	WHAT	WHO
February 2016 April June August October November	Ted talks – zone committee full page in the Kaikōura Star every two months or so. This should include an opinion piece from the chair or other committee member as agreed, and an action-based story.	Ted with support from Murray/Gerald
Newsletter	CWMS Kaikōura Newsletter & Infographic Quarterly Newsletter A3 folded to A4 Distributed to all Kaikōura postal addresses <ul style="list-style-type: none"> • Autumn edition (April distribution) • Winter edition – content TBC • Spring edition – content TBC 	KZC, M Griffin, C Armour, G Raymond

Waterwise brochure	Final review – March 2016 Distributed to all Kaikōura postal addresses Additional material – based on brochure – for use this year to reinforce the messages: <ul style="list-style-type: none"> • Posters (shops, halls and schools) • Fridge magnets/stickers (for households) • Adverts (one topic every month) • Radio advertising 	KZC, M Griffin, C Armour, G Raymond
Stormwater awareness	How to look after your backyard and local stream (to run along-side waterwise) – or an integrated approach? <ul style="list-style-type: none"> • Mini-video (local cinema) with local school • Posters (shops, halls and schools) • Fridge magnets/stickers (for households) • Adverts (one topic every month) 	KZC, M Griffin, C Armour, G Raymond
Clarence Waiau-Toa infographic	Review final version – March 2016 <ul style="list-style-type: none"> • Printing and distribution 	KZC, M Griffin, C Armour, G Raymond
Community action	Community Planting Day – April 13 <ul style="list-style-type: none"> • Posters (done) • Newspaper adverts • Email updates 	ECan Zone Team ECan Comms
Wai-Water	Final version: <ul style="list-style-type: none"> • Printing and distribution (April) • Story map and online resource 	G Raymond and M Griffin

AGENDA ITEM NO: 9	SUBJECT: Committee Updates & Actions
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 26 October 2016
REPORT BY: 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** – An update on the latest Working Group meeting will be provided at the meeting.
 - **Nutrient Management & Water Efficiency** – An update on the latest Working Group meeting held in advance of this committee (26 October) will be provided at the meeting.
 - A short review of the workshop held at the September Committee meeting on the Kaikōura Plains will be provided.
 - **Regional Committee** – Matt Hoggard will provide an update on the Regional Committee meeting held on Tuesday 11 October.
- **Register of Interests** – We will look to confirm a Register of Interests for the Committee once the Committee’s appointments by the CWMS partners – KDC, Kaikōura Rūnanga and ECan have been confirmed, which should be by the end of November. It will then be included as a standard item in the agenda papers of future Water Zone Committee Meetings.
- **Action Points from previous meetings** – an updated list of action points 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 5 Year Outcomes and 2016 work programme priorities.