

**KAIKOURA WATER ZONE COMMITTEE MEETING HELD AT 12.30PM
ON WEDNESDAY 18 OCTOBER 2017 AT COUNCIL FUNCTION, 3RD
FLOOR CIVIC BUILDING, 96 WEST END, KAIKOURA.**

AGENDA

- 1. Karakia***
- 2. Committee Check In and Order of Business***
- 3. Apologies***
- 4. Matters of Importance to be raised as Urgent Business***
- 5. Confirmation of Minutes 20/09/2017***
- 6. Committee Updates***
- 7. Zone Delivery –Quarterly Update***
- 8. Five Year Outcomes Review - Workshop***
- 9. Fonterra Programmes Briefing***
- 10. General Business***

	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 hāpori 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

TIMETABLE & ORDER OF BUSINESS

	12pm	Lunch	
		Open – Karakia	
1	12.30pm	Committee check-in & Order of business	T Howard
		<ul style="list-style-type: none"> • Apologies • Announced urgent business • Confirmation of previous meeting minutes 	
2	1pm	Committee Updates	M Griffin / ZDT / ZC
		<i>An update on the committee's current priorities and actions from previous meetings.</i>	
3	1.40	Zone Delivery – quarterly update	M Griffin / K Heays
		<i>ECan Zone Delivery Manager, Kevin Heays, will lead an update on the Delivery Team's priorities and actions over the last quarter.</i>	
4	2.20pm	Five Year Outcomes Review – workshop	M Griffin / K Heays
		<i>An opportunity for the committee to review its 5 Year outcomes.</i>	
	2.55	Afternoon Tea	
5	3.10	Fonterra Programmes – Briefing	J Caygill
		<i>James Caygill and Mike Hennessey of Fonterra will lead a presentation on Fonterra's sustainability programmes.</i>	
6	3.55	General Business	
	4pm	Close – Karakia	

AGENDA ITEM NO: 6	SUBJECT: Committee Updates
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 18 October 2017
REPORT BY: Murray Griffin, CWMS Facilitator – Kaikōura	

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**

An update on these Working Groups will be provided at the meeting.

- **Nutrient Management & Water Efficiency**

– An update on the Ministry for Primary Industries’ Earthquake Recovery project focused on the Kaikōura Plains will be provided by Chloe Armour (ECan Land Management Advisor) and Jodie Hoggard (Kaikōura Plains Recovery Project Manager).

- **Love the Lyell/Waikōau**

– An update on the Lyell/Waikōau will be provided at the meeting.

- **CWMS Regional Committee**

The most recent CWMS Regional Committee meeting was held on Tuesday 10 October. Ted Howard has provided his report to this meeting as agenda item 6-1.

- **Link to all Regional Committee meetings and agenda papers –**

<https://ecan.govt.nz/data/document-library/?Search=regional+water+management+committee%2C+agenda&documentTypes=-1&pageSize=12&start=1&sortDir=desc>

- **CWMS Chairs & Deputy Chairs Meeting**

A regional CWMS meeting was held on Friday 6 October for all the Zone Committee Chairs and Deputy Chairs. Ted Howard has provided a report on this meeting as agenda item 6-2.

- **Zone Delivery – update**

Kaikōura Zone Delivery Manager, Kevin Heays, will provide a quarterly update on the ECan Zone Delivery Team priorities and achievements at this meeting.

- **Community drinking water status** – the annual report on KDC compliance with the NZ Drinking water standards for 2016/17 is provided for the committee as agenda item 6-3.
- **Zone Committee Refresh 2017**
M Griffin will provide a short update on the Zone Committee refresh at this meeting.
- **Environment Canterbury Long Term Plan 2018-2028 – Committee Feedback**
The next Environment Canterbury Long Term Plan for 2018-2028 is currently in development. Environment Canterbury are currently seeking input from stakeholders on the strategic direction of Environment Canterbury and also inviting feedback from all 10 zone committees and the regional committee.
 - The Committee considered its feedback at its 20 September meeting which will be tabled at this meeting for final review.
- **Action Points from previous meetings** – an updated action list will be reviewed at the meeting.

RECOMMENDATIONS

- The Zone Committee are asked to receive these updates for their information, and with reference to the Committee's current work programme priorities and 5 Year Outcomes.

AGENDA ITEM NO: 6-1	SUBJECT: Committee Updates	
REPORT TO: Report to Regional Committee from Kaikoura Zone		DATE OF MEETING: 18 October 2017
REPORT BY: Ted Howard		

Kaikoura water issues continue to be dominated by the earthquake, as is our Zone Committee's thoughts.

It is hard to explain the many levels of impact of the earthquake. Some are reasonably obvious, some less so.

Residents of Kaikoura were essentially under town arrest for 6 weeks following the quake – we couldn't come and go, we had to stay. Since then there is significant risk that if we go somewhere, we may not be able to get back home for several days (as the roads continue to close for days at a time due to flooding and slips. What used to be a half hour drive to Clarence now takes 10 hours. That is isolation. This community is fractured by loss of coastal roads into three distinct parts – for a year!

Everyone is suffering from stress, to some level. Even while writing this, I wonder if I will be able to get down to deliver it in person next week, or if I do, get home again afterwards. Those are not things I would have considered a year ago – now they loom large.

Every aspect of water has been effected, and many continue to change and will do for years or decades to come:

River flows and levels;

Sediment flows;

Flood risk;

Groundwater flows;

Stream flows;

Water infrastructure (water pipes, irrigation pipes, drainage systems, storm-water systems, sewerage systems) all damaged to some degree, and operational to some degree;

Business interruption – tourism has stopped, farming is damaged (our two major earners), road reconstruction brings money and risk;

The list is long and growing. Each of these is major under normal circumstances, they are huge now.

As a zone committee this has been our focus. Looking for ways to collaborate and build understanding and resilience at many levels.

The help we have had from ECan and central government and other agencies, organisations and people has been great, and has been greatly appreciated.

The cooperation from local farmers in particular has been amazing, as was their response immediately post-quake – in working so hard to restore damaged effluent systems as much as possible.

As a committee we continue to receive briefings, and the best science is saying that it will be years before we have confidence about many aspects of what is happening with groundwater and drainage. The complexities of what happened and why are amazing, and baffling to most.

So a lot of science is happening (a \$600K MPI fund looking at farming recovery, GNS Spending \$8M over 5 years, many other institutions also involved – MBIE, U Canterbury, U Otago, Lincoln, NIWA, Cawthron, and many others).

Our existing weed and predator programs in the Clarence continue. We are talking with local, regional, national and international bodies about what happened here and how to get such optimality as we can out of it.

And there are limits to how much stressed people can deal with – and most farmers, most locals, are very stressed, and have been for a long time, and likely will be so for several years to come. Expecting engagement at some levels is not reasonable under such circumstances – what is needed now is understanding, help, and gentle guidance.

The Zone Team have been great in the work that they have done, and continue to do.

We continue this journey – one step at a time.

6.2 Report to Kaikōura Zone on CWMS Regional meetings attended.

Two Regional meetings since our last Zone Meeting – the Regional Chairs and Deputies on 6th Oct, and the Regional Meeting on 10th Oct.

Water Zone Committee Chairs and Deputies meeting on 6 October

The first part of the Chairs and Deputies meeting conflicted with the RLG meeting, so I only made the second half.

The first big issue I met was the idea of a 2 day conference for all Zone Committee members – probably to be held at a university campus probably next March or April. Was general support for the value of the networking such conferences provide.

Discussion of the ECan Long Term Plan focus on biosecurity and biodiversity, and some of the issues in that.

Concern expressed that in many areas we cannot say that water quality is increasing as it is still decreasing on objective measures. There was discussion of the effect of drought on those measures and of other long lags involved in groundwater.

Briefly touched on the complexities of governance between the Local Government Act and the Resource Management Act, and how they are entwined. Discussion of the increasing role of consensus, and the potential for a greater role for zone committees.

Andy Pearce gave a great presentation on the art of chairmanship – very briefly summarised as:

Separate process and content. Chair - how to define and end point. Conduct the orchestra.

Need to be brutally unsubtle to shut some people up, need to draw some people out.

May need to hand over to deputy chair if need to actively engage with content.

Trust relationship with facilitator - need to be able to swap roles at will.

The bigger the group the more difficult. Plenty of room for conflict - put it on the table, provided it is constructively expressed. Often about asking questions rather than making statements.

"I have a different view from that"

Chair needs to be able to summarise the current state of the discussion "I think we've agreed the following..." "I think we haven't yet worked our way through ..."

"Let me see if I can capture a set of words that records where we have got to."

Don't be afraid of trying to summarise - they'll tell you if you've got it wrong. Have the courage to speak.

Ask someone else where we've got to "??? where do you think we've got to?"

What to do if someone goes off track - use whatever works - terms of reference, code of behaviour, etc

Take the time that is needed to get somewhere.

Don't personalise comments!

Judge conversations on tone - shut down politely as possible if off tone.

Break up the cliques - spread the name tags on the tables.

Tom Lambie noted the 4 Pillars of – social, environmental, cultural, economic wellbeing are central to what we are doing and need to be celebrated for the successes.

CWMS Regional Committee Meeting on 10 October

Discussion of the ongoing science to try and determine if the deep groundwater flows under the Waimakariri indicated by the modelling are in fact there – no definitive results as yet, but indications are negative.

Ben noted that while new plans are operative, old consents need to complete their term before new conditions apply.

Discussion of how to get the best environmental outcome for money spent, and noted that over 6 years \$30m spent on planning and \$20M planned for the future 4 years.

Briefly touched on the intersection where increasing numbers of rules lead to far from optimal outcomes.

Brett Painter gave a very interesting talk on 3 environmental infrastructure projects – 2 involving maintaining minimum flows to sustain native biodiversity and one using Managed Aquifer Recharge flushing to lower nitrate levels.

Several discussions arose about the unknowns in the complexity of sediment layers in specific areas meaning that not much could be predicted in advance.

Discussion of the management of timing of water abstractions and releases to achieve recreational targets.

Noted that 6 kids making a representation to full council managed to achieve what a decade of expert reports had failed to do (though I suspect that without the decade of expert reports, the kids would have failed also, tipping points are like that).

Discussion of possibility of holding a regional meeting at the Kaikōura Marae – and agreed that the request be made.



Report on Compliance with the Drinking-water Standards for New Zealand 2005 (revised 2008) and duties under Health Act 1956

For Period: (01/07/2016 to 30/06/2017)

Drinking Water Supplies:

Fernleigh (FER003)
Kaikoura East Coast Rural (KAI021)
Kaikoura Urban (KAI004)
Kincaid Rural (KIN003)
Oaro (OAR001)
Ocean Ridge (OCE002)

Water Supplier:

Kaikoura District Council

South Island Drinking Water Assessment Unit
PO Box 1475
Christchurch 8140

Report Identifier

KaikouraDistrictCouncil_DWSNZ200508_Compliance_110917_v1

Terminology

DWSNZ05/08: Drinking Water Standards for New Zealand 2005 (Revised 2008)

Compliance = Areas where the drinking water supply does not comply with the DWSNZ05/08

UV system: Ultra Violet light system

KDC: Kaikoura District Council

WINZ 6 & 7: Water Information New Zealand versions 6 & 7 database

WSP: Water Safety Plan

MoH: Ministry of Health

Non-compliance: Areas where the drinking water supply does not comply with the DWSNZ05/08

Treatment Plants

Bacterial compliance is under section 4 of the DWSNZ2005/08

Protozoal compliance is under section 5 of the DWSNZ2005/08

Cyanotoxin compliance is under section 7 of the DWSNZ2005/08

Chemical compliance is under section 8 of the DWSNZ2005/08

Radiological compliance is under section 9 of the DWSNZ2005/08

Treatment Plants: Bacterial compliance

Summary of E.coli sampling results

Plant name	Number of samples required	Number of samples collected	Number of transgressions	Compliance
Fernleigh (TP1002)	52	110	1	Compliant
Kaikoura Urban (TP02772)	102	134	0	Compliant
Ocean Ridge (TP02879)	52	90	1	Compliant
Kaikoura East Coast Rural (TP01003)	52	21	1	Non-compliant
Kincaid Rural (TP01001)	52	88	2	Non-compliant

Summary of compliance with sampling / analytical / remedial / operational requirements

All plants were assessed for compliance against Bacterial Compliance Criteria 1 (E.coli monitoring only).

E.coli transgressions occurred at Fernleigh and Ocean Ridge yet these plants were still able to achieve compliance given the total number of samples which were taken. The DWSNZ05/08 has allowable exceedances e.g. 1 E.coli transgression from 110/ 90 samples will comply (ref: DWSNZ05/08 Table A1.4).

Kaikoura East Coast rural did not achieve bacterial compliance due to an E.coli transgression. Additionally it did not meet the sampling criteria due to insufficient numbers.

Kincaid Rural did not achieve bacterial compliance due to two E.coli transgressions.

The requirement for E.coli samples to be analysed by a MoH recognised laboratory was met for all treatment plants.

Treatment Plants : Protozoa compliance

Plant Name	Protozoal Risk Category	Log Credit Required
Fernleigh (TP1002)	Catchment risk assessment in WSP	Not yet assigned
Kaikoura Urban (TP02772)	Non-secure GW. Lost security December 2016	Not yet assigned
Ocean Ridge (TP02879)	Non secure GW	Not yet assigned
Kaikoura East Coast Rural (TP01003)	Non secure GW	Not yet assigned
Kincaid Rural (TP01001)	Catchment risk assessment in WSP	Not yet assigned

Summary of Compliance with Risk Categorisation process

Kaikoura Urban lost its groundwater security status in November 2016 following the Kaikoura earthquake. A GW security assessment of this supply (including age dating) is in progress to determine if the supply may re-gain its security status.

DWSNZ05/08 Section 5.2.1.1 states that water suppliers can determine the protozoa log credit requirement using either the catchment risk category approach or by raw water Cryptosporidium monitoring. The catchment risk categorisation procedure involves a survey of the catchment. The water supplier must commence this survey within six months of the DWSNZ05/08 revision coming into effect.

The catchment risk categorisation still needs to be done for any KDC supply that is not secure GW.

Summary of Treatment Processes and associated Log Credits

Plant name	Treatment Process ¹	Potential Log Credit Available	Summary of Turbidity results	Compliance with all other requirements of criterion ²	Log credit achieved
Fernleigh (TP1002)	No complying Protozoa treatment in place	Nil	n/a	No	0
Kaikoura Urban (TP02772)	No complying Protozoa treatment in place	Nil	n/a	No	0
Ocean Ridge (TP02879)	Cartridge filtration and UV	4.0	None	No	0
Kaikoura East Coast Rural (TP01003)	No complying Protozoa treatment in place	Nil	n/a	No	0
Kincaid Rural (TP01001)	Cartridge filtration and UV	4.0	None	No	0

- 1 Treatment Process meeting DWSNZ05/08 definition of available combination of treatment technology
- 2 Further detail provided below under log credit assessment

Summary of Log Credit Assessment

Fernleigh did not have complying protozoa removal/ inactivation treatment in place and therefore did not meet the protozoa log credit removal requirement.

Kaikoura Urban lost GW security in November 2016 following the Kaikoura earthquake. After November 2016 Kaikoura Urban did not have complying protozoa removal/ inactivation treatment in place and therefore did not meet the protozoa log credit removal requirement.

Ocean Ridge has cartridge filters and Ultra Violet (UV) treatment. However, compliance parameters were not monitored sufficiently to meet the requirements of the DWSNZ05/08 for compliance.

Kaikoura East Coast Rural did not have complying protozoa removal/ inactivation treatment in place and therefore did not meet the protozoa log credit removal requirement.

Kincaid Rural has cartridge filters and Ultra Violet (UV) treatment. However, compliance parameters were not monitored sufficiently to meet the requirements of the DWSNZ05/08 for compliance.

Log Credit Total (Total of all Treatment Processes) Achieved:

Fernleigh = 0 log credit. Non compliant (DWSNZ05/08)

Kaikoura Urban = 0 log credit. Non-complaint (DWSNZ05/08)

Ocean Ridge = 0 log credit. Non-compliant (DWSNZ05/08)

Kaikoura East Coast Rural = 0 log credit. Non-compliant (DWSNZ05/08)

Kincaid Rural = 0 log credit. Non-compliant (DWSNZ05/08)

Treatment Plants : Cyanotoxin Compliance

Kaikoura District Council water sources have not been shown to be at risk of cyanotoxin development, therefore the requirement to have a cyanotoxin management protocol was not applicable.

Treatment Plant : Chemical compliance

No priority 2 determinands were assigned to any of the above treatment plants. Kaikoura Urban (Mackles Bores), is the only treatment plant that Kaikoura District Council operates with a population greater than 500. A notice warning the public about plumbosolvent water (Section 8.2.1.4 DWSNZ2005/08), **was not** provided to customers at the specified frequency during the compliance period.

Distribution Zones

Distribution zone bacterial compliance is under section 4.4 of the DWSNZ2005/08

Cyanotoxin compliance is under section 7 of the DWSNZ2005/08

Chemical compliance is under section 8 of the DWSNZ2005/08

The following compliance information is derived from WINZ 6 & 7.

Distribution Zones : Bacterial compliance

Summary of E.coli sampling results

Distribution zone name	Number of samples required	Number of samples collected	Number of transgressions	Compliance
Fernleigh	12	41	0	Compliant
Kaikoura Urban	12	526	0	Compliant
Ocean Ridge	12	80	0	Compliant
Kaikoura East Coast Rural	12	4	0	Compliant
Kincaid Rural	12	59	0	Compliant

Summary of compliance with general sampling/ analytical/ remedial action requirements

Fernleigh, Kaikoura Urban, Ocean Ridge, Kaikoura East Coast Rural and Kincaid all achieved compliance under section 4.4 of the DWSNZ2005/08.

The requirement for E.coli samples to be analysed by a MoH approved laboratory was met. The zones were adequately covered for the DWSNZ2005/08 requirements for days of the week and maximum times between samples.

Distribution Zone : Cyanotoxin Compliance

Cyanotoxins have not been assigned as a priority determinand to any of the KDC distribution zones so they were not applicable.

Distribution Zone : Chemical compliance

There were no Priority 2 determinands assigned to supplies in the distribution zone for the compliance period.

Supplies using Section 10 of the DWSNZ05/08 to demonstrate compliance

Name of Supply	WSP approved & implemented	Appropriate treatment*	Monitoring	Remedial Actions	Overall compliance
Oaro (TP00998)	Met	Cartridge Filter and UV (3 Log credits stated in WSP)	Met	n/a	Compliant

*Appropriate treatment includes bacterial, chemical and protozoa treatment

Oaro achieved compliance under section 10 of the DWSNZ05/08. The WSP for Oaro expired in July 2017, so this supply no longer meets the criteria for section 10 and will be assessed under the main body of the standards.

Summary of Audit Activities to Verify DWSNZ Monitoring Data

An audit of E.coli compliance monitoring results was undertaken by the DWA in the Community & Public Health Offices on Monday 10th July 2017. The audit compared the hard copy laboratory reports

from Assure Quality against the compliance results that had been entered into WINZ 7 for a random selection of samples. Ten samples from 2 distribution zones and 1 treatment plants were randomly selected for audit. The following were included:

- Distribution Zones: Peketa, Kaikoura Urban
- Treatment plant: Ocean Ridge

No discrepancies in the data were identified in the hard copy data and the data entered into WINZ 7 during the audit.

Summary of DWSNZ Compliance

Summary of Treatment Plant Compliance

Plant	Bacterial Compliance	Protozoa Compliance	Chemical Compliance	Radiological Compliance	Cyanotoxin Compliance
Fernleigh	✓	X	✓	n/a	n/a
Kaikoura East Coast Rural	X	X	✓	n/a	n/a
Kaikoura Urban	✓	X	X	n/a	n/a
Kincaid Rural	X	X	✓	n/a	n/a
Oaro	✓	✓	✓	n/a	n/a
Ocean Ridge	✓	X	✓	n/a	n/a

Summary of Distribution Zone Compliance

Zone	Bacterial Compliance	Chemical Compliance
Fernleigh	✓	✓
Kaikoura East Coast Rural	✓	✓
Kaikoura Urban	✓	✓
Kincaid Rural	✓	✓
Oaro	✓	✓
Ocean Ridge	✓	✓

Assessment of Compliance with Duties of drinking-water suppliers under the Act

The duties of the water supplier under the Health Act 1956 have all been fully met.

Section 69S – Duty of suppliers in relation to the provision of drinking water	Met for all supplies
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This decision is based on the following – a number of KDC supplies were not operable for >8hours following the Kaikoura earthquake in November 2016. However, this was declared a civil defence emergency and KDC took immediate steps to provide alternative water supplies via tankers and water pods.

Section 69U – Duty to take reasonable steps to contribute to protection of source of drinking water	Met for all supplies
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This decision is based on the following – KDC have informed me that they take reasonable steps to contribute to the protection from contamination of the catchment and therefore the raw water source. KDC demonstrated a proactive approach with regards to investigating the possible catchment contamination source of the Peketa water supply following an unusual weather event in April 2017.

Section 69ZD – Duty to keep records and make them available	Met for all supplies
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This decision is based on the following –KDC utilises the WINZ 7 database to record compliance results for KDC. Data entry is performed by a contractor (Food & Health Standards (2006) Ltd). Food & Health Standards remotely log into the WINZ database to enter the data. This arrangement has worked well for this year.

Visits have been made to KDC water supply treatment plants throughout the compliance period and treatment plant log books/ records have been viewed during these visits.

Section 69ZE – Duty to investigate complaints	Met for all supplies
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This decision is based on the following – KDC records and tracks all complaints through their customer services team. Complaints are recorded, responded to and actioned as necessary.

The results in this report relate only to the compliance of the above listed treatment plants and distribution zones.

Status of Water Safety Plans


Water Safety Plans for Oaro, Ocean Ridge, Kaikoura Urban, Kaikoura East Coast Rural, Kaikoura Suburban, Kincaid, and Peketa are due to be submitted by December 2017. These WSPs will reflect the changes that have occurred to the supplies following the November 2016 Kaikoura earthquake. Implementation visits will be arranged in response to the submission of these plans.

Please be aware that under the Health (Drinking Water) Amendment Act 2007, the Kaikoura Urban supply falls into the category of a minor drinking water supply. Therefore the legal requirement to take all practicable steps to comply with the Drinking Water Standards applied from 1 July 2014.

Please be aware that under the Health (Drinking Water) Amendment Act 2007, Fernleigh, Ocean Ridge, Kaikoura East Coast Rural, Kincaid Rural and Oaro fall into the category of small drinking water supplies. Therefore the legal requirement to take all practicable steps to comply with the Drinking Water Standards applied from 1 July 2015.

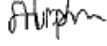
Information in this report may be provided to the Ministry of Health at their request. With the exception of the Ministry of Health, this report shall not be reproduced without the approval of the South Island Drinking Water Assessment Unit and Kaikoura District Council.

Completed 11/9/17

A handwritten signature in black ink, appearing to read 'F. Humpeson'.

Fiona Humpeson
IANZ Accredited Drinking Water Assessor
South Island Drinking Water Assessment Unit, Christchurch

Assessment Report Information

Report identifier	KaikouraDistrictCouncil_DWSNZ200508_Compliance_110917_v1
Drinking Water Assessment Unit (Inspection Body)	South Island Drinking Water Assessment Unit PO Box 1475 310 Manchester Street Christchurch PH: 03 3786774
Drinking Water Assessor	Fiona Humpheson
Assessment Date	11/09/2017
Description of assessment work	Assessment of Compliance with Drinking Water Standards for New Zealand 2005 for : Treatment Plants: Fernleigh Treatment Plant (TP01002) and Fernleigh Distribution Zone (FER003FE). Kaikoura Mackles Bores Treatment Plant (TP02772) and Kaikoura Urban (KAI004KU) distribution zone. Kaikoura East Coast Treatment Plant (TP01003) and Kaikoura East Coast Distribution Zone (KAI021EA). Kaikoura Suburban Treatment Plant (TP00217) and Kaikoura Suburban Distribution Zone (KAI055KA). Kincaid Treatment Plant (TP01001) and Kincaid Distribution Zone (KIN003KI). Oaro Treatment Plant (TP00998) and Oaro Distribution Zone (OAR001OA). Ocean Ridge Treatment Plant (TP02879) and Ocean Ridge Distribution Zone (OCE002OC). Peketa Treatment Plant (TP01000) and Peketa Distribution Zone (PEK002PE).
Equipment Used	Water Information New Zealand (WINZ) database versions 6 & 7 were used to review compliance data
Water Supply Owner / Person Responsible	Kaikoura District Council (Terry Howes- Water Asset Manager)
Assessment method	Standard assessment as per Scope 1A Procedure Drinking Water Standards for New Zealand 2005(revised 2008)
Documents and Information	Drinking Water Standards for New Zealand 2005(revised2008) Part 2A Health Act 1956
Site of Assessment	Community & Public Health, 310 Manchester Street, Christchurch
Omissions from proposed assessment	Nil
Sub-contracted work	Nil
Document checked by:	Michael Wong IANZ Accredited Drinking Water Assessor 12/9/17
Release of report authorised by:	Fiona Humpheson IANZ Accredited Drinking Water Assessor  Date: 12/9/17

If you do not agree with the findings of this report a written appeal must be lodged with the Technical Manager, South Island Drinking Water Assessment Unit, PO Box 1475, Christchurch within 2 months of receipt of this report. The Technical Manager will arrange for a review to be undertaken using the Ministry of Health appeals procedure.

AGENDA ITEM NO: 7	SUBJECT: Zone Delivery Team – Quarterly Update
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 18 October 2017
REPORT BY: Murray Griffin, CWMS Facilitator – Kaikōura	

UPDATE

The Kaikōura Hurunui-Waiau 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 Zone Delivery Team are:

- **Kevin Heays**, Kaikōura Zone Delivery Manager
- **Chloe Armour**, Land Management Advisor, Kaikōura
- **Jess Hill**, Biodiversity Advisor, Kaikōura and Hurunui/Waiau
- **Robin Hubbard**, Resource Management Officer – Monitoring and Compliance, Kaikōura and Hurunui/Waiau
- **Peter Taylor**, Resource Management Officer – Monitoring and Compliance, Kaikōura and Hurunui/Waiau
- **Jan Crooks** – seconded, earthquake recovery
- **Marty Mortiaux** – seconded, earthquake recovery

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 2017.

RECOMMENDATION

That the Water Zone Committee receive this Zone Delivery Team quarterly update for their information, and in considering the Committee's 2018 work programme priorities and 5 year outcomes 2015 – 2020.

AGENDA ITEM NO: 8	SUBJECT: 5 Year Outcomes Review – workshop	
REPORT TO: Kaikōura Zone Committee		DATE OF MEETING: 18 October 2018
REPORT BY: Murray Griffin, CWMS Facilitator – Kaikōura		

PURPOSE

This workshop provides the committee with an opportunity to review 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:

- A review of the committee’s current 5 Year Outcomes – which are provided below.
- An open discussion on the committee’s view on current and future water management priorities for the Zone.

BY WHO

This workshop will be facilitated by

- Kevin Heays – Zone Delivery Manager – Kaikōura (ECan)
- Murray Griffin – CWMS Facilitator – Kaikōura (ECan)

BACKGROUND

To assist the committee’s considerations the 5 Year Outcomes, 2015-2020, are provided below.

Kaikōura Water Zone Committee – Five Year Outcomes

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

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

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

- 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

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

- 6) **OUTCOME:** Ensure Kaikōura's Earthcheck status is not undermined by the declining state of waterways
- 7) **OUTCOME:** Environmental values of waterways are not undermined by the transport corridor through the zone
- 8) **OUTCOME:** To continue to broaden the Kaikōura community's awareness and involvement in water management issues and initiatives.

RECOMMENDATION

- That the Committee consider its work programme priorities for 2018 and a refresh of the Kaikōura 5 Year Outcomes, 2015-2020.

AGENDA ITEM NO: 9	SUBJECT: Fonterra Sustainability Programmes – Update	
REPORT TO: Kaikōura Water Zone Committee		DATE OF MEETING: 18 October 2017
REPORT BY: Murray Griffin, CWMS Facilitator – Kaikōura, ECan		

PROPOSAL

This update follows on from the briefing provided on Plan Change 5 to the Canterbury Land and Water Regional Plan, with an accompanying overview of Farm Environment Plans (FEPs) and the associated FEP Audit process at the Zone Committee's 10 July meeting.

This update will focus on:

- Overview of the Fonterra Sustainability Programmes
- Tiaki – Fonterra Sustainability as a Service; regionally tailored services for our farmers.
- Collaboration with Water Zone Committees –
 - o Zone objectives
 - o 50 catchments.

BY WHO

This briefing will be provided by the following Fonterra representatives:

- **Mike Hennessey** – Area Manager Milk Supply North Canterbury
- **James Caygill** – Canterbury & West Coast – Regional Engagement Manager

BACKGROUND

Supply Fonterra

To ensure Fonterra continue improving milk quality and minimise dairying's environmental footprint, they have developed Supply Fonterra – our programme of on-farm initiatives that supports farmers and the Co-operative to help maintain and grow a sustainable milk supply.

The Supply Fonterra programme is a first for dairy in New Zealand and provides proactive initiatives that support our farmers and industry as a whole. Our programme sets out environmental and food safety requirements and provides support to assist our farmers to meet regulatory requirements and future-proof their farm.

Supply Fonterra programmes currently include:

- o Annual Farm Dairy and Environmental Assessment
- o Milk Quality Support
- o Milk Temperature Management
- o Mastitis Support
- o Animal Health & Welfare
- o Effluent Management
- o Nitrogen Management
- o Waterway Management
- o Water Use Management

For more information–link: <https://www.fonterra.com/nz/en/what-we-stand-for/sustainable-dairying.html>

The Sustainable Dairying Water Accord

The Sustainable Dairying: Water Accord (SDWA) is a commitment to New Zealand to enhance the overall performance of dairy farming as it affects freshwater through continuous improvement and partnership. The Accord is a voluntary environmental initiative designed to contribute towards clean, healthy freshwater resources including streams, rivers, lakes, groundwater and wetlands in dairying areas.

The Accord has targets focused on effluent management, nutrient management, water use efficiency and riparian management (stock exclusion and riparian planting). Reporting against the targets in the Accord commenced in 2014. The SDWA replaced the “Dairying and Clean Streams Accord” (DCSA) which Fonterra signed in May 2003 and ended in December 2013.

Supply Fonterra will continue to align its environmental programmes to the Accord’s requirements to support our farmers in meeting these commitments.

For more information—link: <https://www.dairynz.co.nz/environment/in-your-region/sustainable-dairying-water-accord/>

RECOMMENDATION

That the Zone Committee receive the presentation and takes the opportunity to ask questions.