

ASHBURTON WATER MANAGEMENT ZONE COMMITTEE AGENDA

A **Meeting** of the Ashburton Water Management Zone Committee will be held as follows:

DATE: Tuesday 24 January 2017

TIME: 1:00 pm

VENUE: Council Chamber
2 Baring Square East
Ashburton

MEETING CALLED BY: A Dalziel, Chief Executive, Ashburton District Council
B Bayfield, Chief Executive, Environment Canterbury

ATTENDEES: Mr Chris Allen
Mr Ben Curry
Mr Gordon Guthrie
Mr Bill Thomas
Mr John Waugh
Mr Arapata Reuben (Te Ngai Tuahuriri Runanga)
Mr Karl Russell (Te Runanga o Arowhenua)
Cr Stuart Wilson (Ashburton District Council)
Councillor David Caygill (Environment Canterbury)

Zone Facilitator

Olivia Smith

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Environment Canterbury

Committee Advisor

Louise Glennon

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Ashburton District Council

Tangata Whenua Facilitator

Peter Te Rangihiroa Ramsden

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Environment Canterbury



4 Register of Interests

Representative's Name and Interest	
Chris Allen	<ul style="list-style-type: none"> • Farm owner of sheep, beef, lambs ,crop • Water resource consents to take water from tributary of Ashburton River and shallow wells • National board member Federated Farmers of New Zealand with responsibility for RMA, water and biodiversity • Member of Ashburton River Liaison Group
David Caygill	<ul style="list-style-type: none"> • Environment Canterbury Councillor • Chair - Business NZ's Energy Council • Chair – Technical Advisory Group (TAG) on Water & Nutrient Allocation
Ben Curry	<ul style="list-style-type: none"> • Chief Executive Officer – Rangitata Diversion Race Management Limited • Chair of Recreational and Amenities Working Group Committee
Gordon Guthrie	<ul style="list-style-type: none"> • CEO Electricity Ashburton Limited (t/a EA Networks) • Director – Barrhill Chertsey Irrigation (incl. Water Utilities Limited) • Farming partnership – Winchmore (Ashburton North branch)
Karl Russell	<ul style="list-style-type: none"> •
Arapata Reuben	<ul style="list-style-type: none"> • Trustee – Tuahiwi Marae • Trustee – Tuhono Trust • Trustee – Mana Waitaha Charitable Trust • Member - National Kiwi Recovery Group • Rūnanga Rep and Chair – Christchurch – West Melton Water Zone Committee
Bill Thomas	<ul style="list-style-type: none"> • Farm owner of Longbeach Estate Ltd (sheep, beef, lambs, arable, dairy) • Member of Eiffelton Irrigation Scheme
Stuart Wilson	<ul style="list-style-type: none"> • Ashburton District Councillor and Chair of Service Delivery Committee • A son who is a Director of Mayfield Hinds Irrigation Co and RDR
John Waugh	<ul style="list-style-type: none"> • Member of the Ashburton Branch of the Royal Forest and Bird Protection Society

Minutes of a meeting of the **Ashburton Water Management Zone Committee** held on Tuesday 29 November 2016, commencing at 1.00pm in the Council Chamber, 2 Baring Square East, Ashburton.

Present

Councillor David Caygill, Ben Curry, Cr Stuart Wilson, Gordon Guthrie, Chris Allen, Jackie Wright, Arapata Reuben (Te Ngai Tuahuriri Runanga), Karl Russell (Arowhenua Runanga), Bill Thomas (Chair), John Waugh, Peter Ramsden (Tangata Whenua Facilitator)

In attendance

Environment Canterbury: Olivia Smith (Facilitator)

Ashburton District Council: Louise Glennon (Business Support Officer – minutes)

Approximately 6 members of the public attended the meeting.

1 Welcome and Karakia

The Chair welcomed everyone to the meeting, with a special welcome to Karl, John and David. The opening karakia was offered by Peter Ramsden.

2 Apologies

None

3 Extraordinary Business

None

4 Register of Interests

None

5 Confirmation of Minutes

That the minutes of the Ashburton Water Management Zone Committee meeting held on 25 October 2016, be taken as read and confirmed.

Guthrie/Curry

Carried

5.1 Matters Arising

Jackie advised the group that applications are now open for the Rakaia Enhancement Fund and a press release will be going out shortly to this effect.

Ben provided an update on the supplementation of the Hinds River. He did a site visit three weeks ago to look at two possible sites, one was the South Hinds spillway and the other Silver Stream, with South Hinds being the preferred option.

As a new member, John gave a brief overview of his background.

6 Correspondence

Resignation letter received from Jackie Wright with effect from 31 December 2016.

7 Facilitator Update

Due to Jackie's resignation from the Committee, Olivia advised that the selection working group will meet in the New Year and consider committee membership.

Olivia advised that the meeting dates for 2017 have now been set and will be circulated to the group shortly. The first meeting date of 2017 has been confirmed as 24 January.

Draft annual report – nearly there but not complete as yet. Will circulate draft by email for comment and reply. Newsletter will be out shortly.

Donna Lill's team have looked at the Ashburton River and advised that all direct surface water takes have minimum flow except for community and stockwater takes. Surface water takes with minimum flows are tied to a specific number (flow) in consent conditions. In addition, most shallow ground water takes don't have minimum flow conditions.

Work has been completed to clarify the swap provisions in PC2 and communication of this will begin in the New Year. ECan and community and public health have drafted a communication on drinking water risk which will also be communicated to the public in early 2017.

8 Barrhill Chertsey Irrigation Scheme Update: Farm Environmental Plan Programme and Auditing

Eva Harris, Environmental Manager at Irrigo and John Wright, General Manager of the BCI Scheme spoke to their presentation on the BCI 2016 Annual Report.

Peter Ramsden left the meeting at 2.01pm.

9 The Future of Managed Aquifer Recharge in the Hinds Catchment

Rab McDowell and Phil Everest spoke to their presentation on MAR. Rab gave apologies from Peter Lowe and Bob Bower who were unable to attend.

Following the presentation, it was agreed that a workshop needs to be held to further discuss the formation of a MAR Governance group. Specifically, the purpose of the workshop would be to confirm the membership and terms of reference of the group. Bill proposed having a workshop on the morning of 24 January 2017. Chris and Stuart suggested that it would be appropriate for District Council and Regional Council staff to also attend in order to get their input. It was agreed that the workshop attendees include the Committee members, relevant council staff and members of the MAR working party.

Gordon asked for Rab and his group to propose suitable members for the MAR Governance group and for the group terms of reference to include consideration of future implementation structure (e.g., community trust).

Following the discussion about the workshop on the MAR Governance group, attention turned to the continuation of the pilot project. It was agreed that a letter be sent to ADC to seek ongoing support (in the form of supply of water) for use on the Managed Aquifer Recharge project for a further four years. This will enable completion of Phase 2 of the pilot project and establishment of further recharge sites. . In addition, Brett and Olivia will continue a discussion at ECan regarding support for the ongoing Pilot Project costs and will report back in the New Year.

The Committee adjourned for afternoon tea at 3.05pm until 3.18pm.

10 Dairy NZ Update on Research and Future Work in Zone

Angela Harvey from Dairy NZ spoke to her presentation on Sustainable Milk Plans. Dairy NZ have a targeted programme for providing SMP support in the zone from now till May 2017. She spoke to need to support farmers with producing good farm management plans and practices. This led to a discussion about the original intent that FEPs should be something a farmer can complete themselves without the help of a consultant. Members noted that a number of landowners currently require the help of consultants to prepare these.

11 Immediate Steps Fund New Projects for Consideration

Sarah Heddell spoke to her presentation on Okawa Wetlands Stage 2. Stage 1 has now been completed and she requested approval for Stage 2.

That the Zone Committee recommends funding Stage 2 of the project.

Wilson/Caygill

Carried

12 Summary of Monitoring Results for 2015/16

Gillian Jenkins, Principal Resource Management Officer at ECan, spoke to her report on the monitoring results for 2015/16. Members provided feedback on layout of report which is to be passed on to ECan staff to consider.

13 Reports for Committee Information

13.1 Consents Update

David Just updated the committee on the consents. He mentioned that following refusal of the consent application for Yollom Farm Limited an appeal has been lodged.

Olivia queried the cost of land use consents and David Just advised that median rate is approximately \$1,725 for ECan's costs. This cost does not include the cost that consent applicants may pay to a consultant.

Jackie reminded everyone about the Snap Send Solve app which will refer issues to relevant authority, such as ADC, ECan etc.

Following Jackie's resignation, Bill gave thanks to her for all her effort and hard work on the Committee since she joined. Jackie was presented with a gift and card.

Jackie responded with her thanks and her reasons for wanting to part of the committee in the first place. She noted that there is still lots to do with water management and reminded everyone to keep the first and second order priorities in the CWMS front of mind when making recommendations. She wished the Committee well for the future and is grateful for the knowledge she has gained.

Next meeting

The next meeting of the Ashburton Water Zone Committee will be held on Tuesday 24 January 2017, commencing at 1pm.

The meeting concluded at 4.30pm.

Dated this 24 day of January 2017 _____ (Chair)

Ashburton Zone Committee Report

Date 24 January 2017
Report to Ashburton Water Zone Committee
From Tami Woods, Regional Implementation
Subject N Check: An alternative model to OVERSEER® for estimating nitrogen losses

9 N Check: An alternative model to OVERSEER for estimating nitrogen losses

Purpose

To provide the Zone Committee with information about N-Check that could be used as an alternative to OVERSEER® in the Ashburton Zone.

Background

The farming activity rules in the Canterbury Land and Water Regional Plan require many landowners to model nitrogen loss below the root zone using OVERSEER® or an equivalent model approved by Environment Canterbury's Chief Executive.

Currently OVERSEER® is the most commonly used model for measuring nitrogen leaching on Canterbury properties and there are two equivalent models approved by Environment Canterbury's chief executive. These include a model specifically for pig farming and also a model called N-Check which was approved in late 2016 for use in limited circumstances in the Selwyn Te Waihora catchment.

Like OVERSEER, N-Check uses key information about a farm, including location, type, inputs and management, to calculate an estimated nitrogen loss from the property. This loss rate is calculated using the 'engine' developed in the Matrix of Good Management Project. Essentially, N Check requires a landowners to answer a number of simple questions on a free web based application. N-Check then uses this information and that from representative farms (modelled with OVERSEER®) to determine a nitrogen loss rate for the property.

At this time of approving use of N-Check in the Selwyn Te Waihora catchment Environment Canterbury's chief executive also advised that he would consider approving the use of "N-Check" in other zones if supported by zone committees.

Recommendation

- Environment Canterbury staff recommend that the Zone Committee support the use of N-Check in the Ashburton Zone as an alternative to OVERSEER® in the following circumstances: To determine whether consent is required and a farm is below a fixed nitrogen loss rate threshold.
- In the consent process and during on-farm audits in the short term, until 2022, for horticultural and arable farms while further improvements are made to OVERSEER®.

Attachment: Frequently Asked Questions

FAQs 'N-Check'

Where did the idea of an alternative to OVERSEER® come from?

Horticulture New Zealand and Foundation for Arable Research have been exploring an interim (until 2022) alternative to OVERSEER® while further work is undertaken with OVERSEER Ltd to improve how OVERSEER® models complex horticultural and arable systems.

The Selwyn Waihora Zone Committee identified the need for an alternative to OVERSEER® to help deliver the Committee's vision, improve on-farm practices, reduce nitrogen losses and achieve water quality and cultural outcomes. The committee sought its use for farmers to determine whether they were above or below a nitrogen loss threshold and required consent and in the consent process for horticultural and arable farmers and for farms with losses below 15kgN/ha/yr in the catchments phosphorus and sediment risk area and/or cultural landscape values management area.

Both processes identified that the Council had an alternative model to OVERSEER® 'N-Check' that could be used.

What's the problem?

While OVERSEER® provides robust estimates of nitrogen losses for pastoral systems, it is currently less robust for arable and horticultural systems.

There is not the capacity to generate enough OVERSEER® budgets for farmers to meet deadlines in new farming activity rules. There is a back log of farmers waiting for OVERSEER® budgets.

Why is this important?

A number of catchments in the region are not achieving the water quality outcomes set in the Canterbury Land Water Regional Plan ("LWRP") or are at risk of not meeting. In the Ashburton Zone this includes the Hinds Area, the Barhill Chertsey Groundwater Zone and the Ashburton River catchment. One of the key contaminants is the loss of nitrogen from farms to water.

The Land and Water Regional Plan therefore includes farming activity rules, including the new Hinds Plan changes to control and reduce nitrogen losses. These rules required consents from 1 January 2017¹.

To determine whether consent is needed a farmer currently must determine their nitrogen losses.

Where a consent is required, then they need to determine the losses from their farm during 2009-13 and submit this information when seek consent.

This relies on using OVERSEER®, but the plan expressly provides for alternatives.

Without an alternative, Environment Canterbury will have to accept delays to farmers working out whether they need consent, applying for consent, receiving limits and implementing Farm Environment Plans. Ultimately this will delay improvements to water quality and cultural outcomes in the Selwyn Waihora catchment.

¹ An applicant then has six months to apply if scale and intensity of activity has not changed.

The proposal

For some farmers, N-Check is considered an appropriate alternative as it is equivalent to OVERSEER®. It is a free, simple to use web-based application where a farmer can calculate losses of nitrogen from land to water without using OVERSEER®.

The recommended use in the Ashburton Zone is:

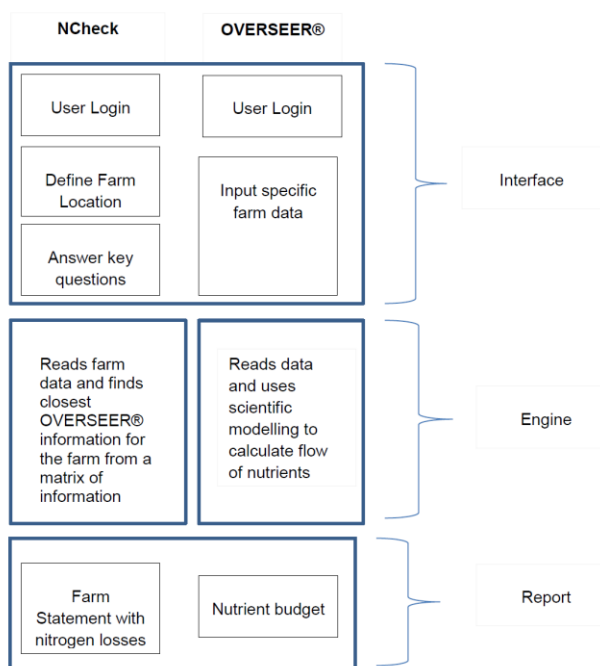
- 1 To determine whether consent is required and a farm is below a fixed nitrogen loss rate threshold.
- 2 In the consent process and during on-farm audits in the short term, until 2022, for horticultural and arable farms while further improvements are made to OVERSEER®.

N-Check has been approved to be used in the Selwyn Te Waihora catchment for both of these purposes.

What is N-Check?

Like OVERSEER®, N-Check uses key information about a farm including location, type, inputs and management, and then calculates nitrogen losses to water.

‘N-Check’ is a product from the Matrix of Good Management project. It accesses an engine developed by the project that recognise farm information a user includes and retrieves a nitrogen loss rate that best matches that farm based on a number of representative farms modelled with OVERSEER®. See diagram below.



How does someone access N-Check?

From 31 January ‘N-Check’ can be accessed at <https://gmplossestimator.ecan.govt.nz>.

How does N-Check help?

It is an efficient way to help farmers in the Ashburton Zone determine whether consent is needed.

For arable and horticultural farms across the region it provides a short term alternative (until 2022) in the consent process, while improvements are being made to OVERSEER®.

OVERSEER® use can then be focused on higher risk farming activities.

What are the risks?

N-Check assumes Good Management Practices are occurring on farm. This assumption would need to be communicated to farmers and checked during planned on-farm Farm Environment Plans audits.

There may be a perception that N-Check is less robust than OVERSEER® and will therefore impact on achievement of water quality outcomes. N-Check uses OVERSEER® information when it makes a calculation. It will capture all farming activities that were intended to require a resource consent. It can be used in the same way as OVERSEER® to set limits and during on-farm audits to make an assessment as to whether a farm is managing to its limits. It will result in the same water quality outcomes, but will minimise potential delays to implementation.

Is approving N-Check within the powers of Environment Canterbury?

The Chief Executive of Environment Canterbury has the power to approve an alternative model. This is provided for in the definitions of 'nitrogen loss calculation' and 'nitrogen baseline'. This power is similar to the power given to the Chief Executive to approve an industry prepared Farm Environment Plan template.

The Chief Executive may only approve an alternative model to OVERSEER® if he is satisfied that the alternative is equivalent model, in the context of its proposed use.

Is N-Check an equivalent model?

Yes for the limited circumstances proposed for use. N-Check will result in the same outcomes for water quality. It uses similar input information and will determine a nitrogen loss rate to water from land. It can be used in the same way through the consent process and when on farm audits are carried out.

Ashburton Zone Committee Report

Date 24 January 2017
Report to Ashburton Water Zone Committee
From Olivia Smith (Zone Facilitator)
Subject Zone Committee Communications Plan 2017

10 Zone Committee Communications Plan 2017

Purpose

To provide zone committee members with an opportunity to provide ideas and feedback to ECan communications staff about zone committee communications for 2017.

Note:

Tania Butterfield (ECan Communications Advisor) will attend the zone committee meeting to discuss ideas for a communication plan for the zone. Specifically, Tania will seek feedback from the committee on a draft communications plan for the first quarter of 2017.

In advance of the meeting, it would be appreciated if members could think about the important messages that need to be communicated in the first quarter of 2017 and the most effective ways/mediums for doing this in the Ashburton community.

Ashburton Zone Committee Report

Date 24 January 2017
Report to Ashburton Water Zone Committee
From Ashburton Zone Delivery Team (prepared by Donna Lill)
Subject Ashburton Zone Committee 5 Year Outcomes & Milestones Delivery quarterly update – Oct-Dec 2016

12 Ashburton Zone Committee 5 Year Outcomes & Milestones Delivery quarterly update – Oct-Dec 2016

Purpose

To update the committee on the progress towards delivering their 5 Year Outcomes & Milestones in the October to December 2016 quarter.

Summary

This is a quarterly report on progress towards the Ashburton Zone Committee 5 year outcomes for period October to December 2016. The table below gives key actions against each milestone in the previous quarter, as well as proposed priority actions for the current quarter. The intention of this report is to include actions of all partners, not just Environment Canterbury, who contribute to the milestones as a coordinated way to keep the committee up to date on delivery towards their Outcomes.

Recommendation

The committee

- **note** the update

Table 1: An overview of the key progress and proposed actions for each of the Ashburton Zone Committees 5 Year Outcomes and Milestones

Outcome Milestone	Progress at end of quarter (30 Dec 2016) - Activities summary current quarter (Oct-Dec 2016)	Contributors	Priority actions for next quarter (Jan-Mar 2017)
All farmers are operating at Good Management Practice (GMP) or better (Contributes to ZIP recommendation 3.2.7, 3.2.8, 4.2.1-4.3.3)			
Milestone 1.1 - Industry supported extension programme is developed to communicate and promote industry agreed GMP practices – August 2016	Achieved - Regular 1-1 meetings with rural professional firms established (e.g farm advisors, bankers, diary consulting officers) - Discussed planning rules, tools and support available	ECan	- Regular 1-1 meetings with rural professional firms ongoing - Full rural professionals meeting held
Milestone 1.2 - Prioritise FEP support for higher N leaching farming activities	On Track - DairyNZ/diary company's consultants working with farmers on developing Sustainable Milk Plans - 3 DairyNZ consent workshops held - Arable properties as per Milestone 1.3	DairyNZ RDR BCI/Acton Irrigo Federated Farmers FAR Beef & Lamb	- Beef & Lamb FEP workshop held - Synlait supplier consent workshops held
Milestone 1.3 - Prioritise FEP support for Arable properties, particularly those outside of irrigation schemes	On Track - Attendance at FAR CROPS day	FAR Environment Canterbury	- Presentation of alternative nutrient calculator to Zone Committee - FAR presentation of relevant work to ZC - Development of joint FAR-ECan FEP workshops for post-harvest

Milestone 1.4 - All irrigated properties have an FEP- March 2018	On Track - As per Milestones 1.2 & 1.3		
Milestone 1.5 - All irrigated properties to undertake an assessment of the efficiency of their irrigation system with action taken to implement any improvements identified – March 2018	On Track - 60 properties and 117 systems bucket tested via joint summer student programme	ECan IrrigationNZ RDR BCI Fonterra Synlait Acton Irrigo ECGIS DairyNZ Beef & Lamb FAR Federated Farmers	- Summer student bucket testing programme continues
Milestone 1.6 - Identify opportunities for water user groups	Behind - Communications work around water user groups scheduled for last quarter delayed due to ECan Communications team deployment to Kaikoura Earthquake	ECan Irrigation consent holders	- Reconfirm strategy given timing in irrigation season. If still appropriate communication about value of water user groups to rural irrigators
Landowners, rūnanga, stakeholders, local authorities and others are working together to protect and enhance biodiversity throughout the zone. (Contributes to ZIP recommendation 2.2.1, 2.2.10, 2.2.22, 2.2.29, 2.2.30, 2.2.32, 2.2.35, 2.2.36, 3.2.3)			
Milestone 2.1 - Ashburton District Council Biodiversity Working Group continues to provide a forum for coordination of biodiversity work programmes across the zone– Annually to 2021.	On Track - 1 meeting held - 25 volunteers Nov attended wilding pine control day at Lake Camp - Completed project visits to all 17 ADC Biodiversity Grant funded sites	ADC Forest & Bird Fish & Game QEII DoC ECan Federated Farmers	- Implementation of the Lake Camp/Clearwater management plan - Discussion of role of CWMS implementation as part of Ashburton District Biodiversity Action Plan review

Milestone 2.2 - Priority weed and pest control for braided river bird habitat in the Rakaia and Rangitata Rivers is implemented with support from Regional Immediate Steps funding – Annually to 2021	On Track <ul style="list-style-type: none"> - \$250,000 allocated for 2016/17 year - Weed & pest control in progress - Nest monitoring in progress 	Upper Rangitata LCG CWMS RC OTOP ZC AshZC DOC ECan	<ul style="list-style-type: none"> - Weed & pest control continue - Nest monitoring continue
Milestone 2.3 - Develop a programme to support the management of biodiversity values in two priority areas, including the foothills. Support on the ground changes via Immediate Steps funding – July 2017	On Track <ul style="list-style-type: none"> - \$13,000 allocated to two projects - See table 2 below for updated status for funding projects 	AZC ECan Various landowners	<ul style="list-style-type: none"> - Develop, assess and fund three further projects
Milestone 2.4 - Two sites are primarily managed for mahinga kai, including one outside of Hinds catchment – July 2017 (incorporates HDWP Rec 4.12)	Behind <ul style="list-style-type: none"> - Lack of flows in the two HDWP selected sites have delayed the planned landowner meetings & signage for this project 	HDWP Arowhenua ECan	<ul style="list-style-type: none"> - Hui with HDWP & Arowhenua to identify any possibilities for other sites with permanent flow
Milestone 2.5 - Increase community awareness of the nature and value of biodiversity	Behind <ul style="list-style-type: none"> - Articles in local paper on endangered braided river bird nesting in Ashburton River - Milestone strategy & media release on funded IMS projects delayed due to ECan Communications team deployment to Kaikoura Earthquake 	ECan Ashburton District Biodiversity Working Group partners	<ul style="list-style-type: none"> - Media release on funded biodiversity project - Confirm strategy for milestone
Milestone 2.6 - Trustpower funding is unlocked for Rakaia enhancement projects - 2016	Achieved <ul style="list-style-type: none"> - Opening of first funding round 30 Nov 2016 	TrustPower Rūnanga (Tuahuriri and Arowhenua) AZC SWZC ECan DoC	<ul style="list-style-type: none"> - Receive regular updates from zone committee representative on funding committee

Improve the ecosystem health of the Hakatere/ Ashburton River . (Contributes to ZIP recommendation 1.2.1- 1.2.6, 1.2.8, 2.2.29-2.2.31, 3.2.1, 4.2.8-4.2.10, 4.2.14)			
Milestone 3.1 - Develop a strategy to ensure that the flow regime for the Ashburton River is achieved	Behind <ul style="list-style-type: none"> - Key issues discussed with ZC at 25th Dec workshop. - Information regarding water take consents & minimum flows presented to November ZC 	AZC ECan ADC	- Development of strategy to progress milestone
Milestone 3.2 - ADC develop and implement a strategy to reduce stock-water take to 2,900L/s by no later than 2023- date tbc	On Track <ul style="list-style-type: none"> - Presentation to ZC 25 October Workshop 	ADC	- Continue with strategy as outlined in ADC Long Term Plan
Milestone 3.3 - Identify source of spikes in E-coli at SH1 and determine if an action plan is required - May 2017	On Track <ul style="list-style-type: none"> - Sampling being undertaken weekly as conditions allow from November 2016 	ECan	- Sampling ongoing
Milestone 3.4 - Priority weed control work for braided river bird nesting habitat is completed with support from Zone Immediate Steps Programme – annually to 2021	On Track <ul style="list-style-type: none"> - Implementation of priority actions to protect nesting colonies (exclusion fencing; pest control; education; monitoring) 	AshburtonZC ECan Forest & Bird DoC	<ul style="list-style-type: none"> - Season review meeting Feb 2017 - Begin development of 2017-18 season programme - Bring IMS application to ZC
Milestone 3.5 - Develop a streamlined pathway to enable swaps from surface water/ hydrologically connected groundwater permits to deep groundwater or scheme water – Feb 2017	Behind <ul style="list-style-type: none"> - Key issues discussed with ZC at 25th Dec workshop. 	ECan	- Development of strategy to progress milestone
Milestone 3.6 - Understand the health of Carters Creek and identify opportunities to improve ecosystem health	Not Started <ul style="list-style-type: none"> - Scheduled to begin 2018-19 	AZC ECan ADC	

Milestone 3.7 - ADC develop an integrated stormwater management plan	On Track - Presentation to ZC 25 October Workshop	ADC	- Awaiting outcomes from regional stormwater forum
Hinds River and Drains are managed in a way that provides for multiple needs/interests. (Contributes to ZIP recommendation 2.2.3, 2.2.17, 3.2.3, 4.2.3, 4.2.14, 4.2.9, 4.2.10)			
Milestone 4.1 - Managed aquifer recharge and targeted stream augmentation trials have been completed- 2021 (Incorporates HDWP Rec 4.7)	On Track - MAR Trial ongoing - TSA monitoring initiated discussions with Centre for Freshwater Science regarding a scholarship student to undertake project.	RDR ADC MHIS VIL BCI ECIS Golder MPI Lincoln Agritech CBH Tarbottons ECan	- MAR Workshop with ZC 24 th Jan - Confirm scholarship opportunity for TSA monitoring
Milestone 4.2 - Next steps following the MAR and TSA trial are identified including funding mechanisms and the development of an ongoing programme- 2021	Not Started - Discussions to begin following initial results of MAR trial		
Milestone 4.3 - Programme to identify and remove, where appropriate, fish barriers – annually to 2021	Behind - Due to start October 2016	ECan Fish & Game DoC	- Meet with key partners to determine work programme for 2016-2018
Milestone 4.4 - Develop a programme to increase community awareness of the importance of well head protection - July 2019	Not Started - Completed drafting of letter with CPH to help users understand risk & actions to minimise risk	ECan	- Mail drop of completed letter

Milestone 4.5 - Habitat extent of known mudfish populations is quantified. In addition, surveys are conducted to identify new habitats and populations and assessments are subsequently made to determine if remediation/enhancement of sites is appropriate – July 2018	Not started - Survey is scheduled to start March 2017	DOC	
Milestone 4.6 - Develop a streamlined pathway to enable swaps from surface water/ hydrologically connected groundwater permits to deep groundwater or scheme water – June 2017	Not started - Scheduled to begin Jan 2017, will begin with Hinds Plan Change plan appeals already resolved - Will leverage of work for milestone 3.5	ECan	- Mail drop to Hinds catchment to inform landowners that swap rules are now operative and update on other activities resulting the HDWP recommendations.
HDWP Rec 4.3 – Adaptive Minimum Flow Habitat Trial – Boundary Drain	Behind - Trial started then delayed awaiting grant of consent - Consent application draft conditions developed	Boundary Drain landowners F&G ECan	- Develop monitoring plan for trial - Consent granted
The urban and rural community understand the environmental, economic and social trends occurring in the zone and there is widespread ownership of catchment health. (Contributes to ZIP recommendation 2.2.6, 2.2.11, 2.2.24, 2.2.34, 3.2.2)			
Milestone 5.1 - Receive an annual update on the economic and social trends occurring in Ashburton Zone	Not Started - 1 st annual report due July 2017	ECan ADC	- Investigate possible sources of information
Milestone 5.2 - Receive quarterly reporting on water quality and quantity monitoring results	On Track - Sampling ongoing - Field trip with ZC to Ashburton River sampling site Dec 2016	ECan	- Confirm sites and dates for reporting to ZC

Milestone 5.3 - Create opportunities to involve schools in waterway and wetland enhancement and/or monitoring projects	Not Started - Scheduled to begin Jan 2017	AZC ECan	- Meet with providers of environmental education in Ashburton, understand existing activities & identify opportunities
Milestone 5.4 - Regular media articles from ZC to profile zone implementation work	On Track - 12 newspaper articles related to ZC work - MAR video released	AZC ECan	- Discuss 2017 communications priorities & strategies with ZC - Deliver zone wide newsletter
Milestone 5.5 - Landowners in north Ashburton area understand the catchment health in their area and know what actions can be taken to make improvements – July 2019	Not started - Awaiting confirmation of schedule in Environment Canterbury science & planning teams	AZC ECan Primary industry bodies	
Milestone 5.6 - Improve community understanding of drinking water supplies, including actions to minimise risk	On Track - Completed drafting of letter with CPH to help users understand risk & actions to minimise risk	CPH ECan	- Mail drop of completed letter
HDWP Rec 4.15 – Undertake a quality and habitat monitoring programme until Hinds Plan review period to determine the effects of actions taken	On Track - Sampling on going	HDWP F&G ECan DairyNZ FAR Beef & Lamb DoC	- Sampling on going

Table 2: Update on Status of Immediate Steps Biodiversity Projects funded by the Ashburton Zone Committee

Project Name	Brief description	IS funding allocation	Status (30 Sep 2016)
Approved 2011			
Glenariffe Stream	Fencing	\$20,000	Completed.
Lake Heron	Fencing	\$14,000	Completed.
Upper Rakaia River - Whitcombe Landcare Group	Weed control	\$10,800	Completed.
Approved 2012			
Gawler Stream and Wetland	Fencing, weed control	\$26,644	In progress. Ongoing maintenance, weed control & infill planting.
Pudding Hill	Fencing, weed control	(\$8,133)	Funding retracted as landowner decided not to go ahead with QEII covenant.
Pudding Hill - Kahikatea Wetland	Fencing	\$3,500	Completed.
Swamp Grass and Track Paddock Wetlands	Fencing	\$14,475	Completed.
Upper Rangitata River - Department of Conservation	Weed control	\$20,000	Completed.
Vehicle Management Upper Rakaia	Signage	(\$4,500)	Funding placed back in the pool (see previous updates). May be reviewed in the future, the current signage not considered sufficient.

Approved 2013			
Ashburton/Hakatere River Vehicle Gates	Install vehicle access gates	\$4,359	Completed.
Black Hill Station Blackberry Control	Weed control	(\$12,000)	Applicant withdraw from funding
Glenfalloch Wetlands	Fencing, planting	\$20,250	In progress.
Harris Scientific Reserve Plantings	Plant propagation, planting	\$5,320	Project completed. Awaiting audit.
Lincoln Hills Wetland	Fencing, planting	(\$13,700)	Applicant withdraw from funding
Mount Hutt Wetland	Fencing, planting	\$33,800	Fencing & planting completed. Ongoing maintenance.
Mount Somers Biodiversity Project	Fencing, planting	\$26,605 \$21,605	In progress. All fencing completed. Planting funding removed from agreement as wanting to see what natural regeneration occurs.
South Rakaia Huts Domain	Weed control, planting	\$4,000	Completed
Upper Rakaia River Phase 2 - Whitcombe Landcare Group	Weed control	\$20,650	Contracting and weed control work in progress.
Woodvale Road Wetland	Fencing, planting	\$5,000	Completed
Approved 2014			
CaREx Waterway Rehabilitation - Ashburton Forks	Planting	\$11,220	In progress. All planting completed, ongoing maintenance.
CaREx Waterway Rehabilitation - Harris C Drain	Planting, weed control, re-battering	\$23,380	In progress. All earthworks and planting completed, ongoing maintenance.

CaREx Waterway Rehabilitation – Boundary Drain	Planting	\$3,962	In progress. All planting completed, ongoing maintenance.
Woodvale Road Wetland Stage 2	Fencing, planting	\$8,860	In progress. All planting completed, ongoing maintenance.
Flynn Stream Enhancement	Fencing, planting	\$8,250	In progress. Planting completed, ongoing maintenance.
Darra Downs Restoration	Fencing, planting	\$8,293	In progress. Planting completed, ongoing maintenance.
Somerview Restoration	Fencing, planting	\$8,038	In progress. Planting completed, ongoing maintenance.
Approved 2015			
Coldstream and Wetland	Fencing, planting, earthworks	\$5,605	In progress. Fencing, bank battering and planting completed. Ongoing maintenance.
Taylors and Windermere Drains Habitat Enhancement	Instream enhancement	\$5,400	Completed. Ongoing monitoring only.
Okawa Wetland	Planting	\$12,925	Project completed. Awaiting audit.
Upper Rangitata River Predator Control Project	Predator control	\$23,000	In progress.
Staveley – Westray Farm Poaka Kahikatea Bush Protection	Fencing	\$9,520	In progress.
Coldstream Creek and Coastal Wetland	Fencing, planting, weed control	\$3270	In progress. Planting completed, ongoing maintenance.
Upper Flynn Stream Enhancement	Fencing, planting	\$8,800	In progress. Planting completed, ongoing maintenance.
Harding Creek Riparian Restoration	Fencing, planting	\$7,288	In progress. Planting completed, ongoing maintenance.
Yatemans Waterway Rehabilitation	Fencing, planting	\$32,078	In progress. Planting completed, ongoing maintenance.
Mt Harding Creek Enhancement	Planting	\$5,970	In progress. Planting completed, ongoing maintenance.

Silverstream (Anama) Planting	Planting	\$24,300	In progress. Year 1 planting completed.
Approved 2016			
Coldstream and Wetland Stage 2	Fencing, planting, weed control	\$20,450	Landowner agreement completed. Seed eco-sourced for planting in autumn 2017.
Flynn Stream Stage 2	Weed control, planting	\$8,688	Landowner agreement in progress.
Upper Flynn Stream Stage 3	Fencing, planting	\$10,000	In progress. Fencing completed.
Smith River Terrace	Fencing, planting	\$10,000	In progress. Fencing & planting completed. Ongoing maintenance
Limestone Creek Wetland	Fencing	\$5,000	Landowner agreement completed. Fencing in progress.
Lincoln Hills – Mudfish Habitat	Fencing, planting	\$9,510	Landowner agreement in progress.
Surrey Hills Mudfish Project	Fencing	\$1,950	Landowner agreement in progress.
Okawa Wetland Stage 2	Planting	\$10,000	Landowner agreement in progress.
Somerville 2 Wetland Dryland Terrace	Fencing, Planting	\$3,000	Landowner agreement in progress.
TOTAL	42 Projects	\$513,160	From available funding of \$600,00

Table 3: Projects currently being developed with potential to apply for IMS funding in 2016-17 year

Project name	Brief description	Estimated IMS funding
Mt Harding Stream	Planting a riparian strip along Mt Harding Stream. This will contribute to a planting programme that is happening along this waterway	\$6,000
Blink Bonnie	Planting and enhancing in the Staveley area. Extensive wetland areas adjacent to the Ashburton river	\$ 15,000 to \$20,000
Harding Stream	Planting a riparian strip along Mt Harding Stream. This will contribute to a planting programme that is happening along this waterway.	\$5,500
Boyds Road	Planting a foothills stream.	\$9,000
Wilkins Road	Planting a wetland area along Ashburton River.	\$8,000
Thornton Wetland	Weed control and planting of a wetland area along Rangitata River	\$10,000
Staveley Planting	Planting of a waterway	\$8,000
Ashburton Braided River Bird Programme	Priority actions to protect braided river bird nesting habitat	\$5,000
Boundary Drain Habitat Enhancement	Habitat enhancement options identified in HDWP Recommendations	\$10,000 to \$30,000
TOTAL	7 potential projects	\$76,500 to \$101,500

Ashburton Zone Committee Report

Date 24 January 2017
Report to Ashburton Water Zone Committee
From Olivia Smith (Zone Facilitator)
Subject Rakaia Enhancement Fund- Election of Representative and Alternate Representative

13 Rakaia Enhancement Fund - Election of Representative and Alternate Representative

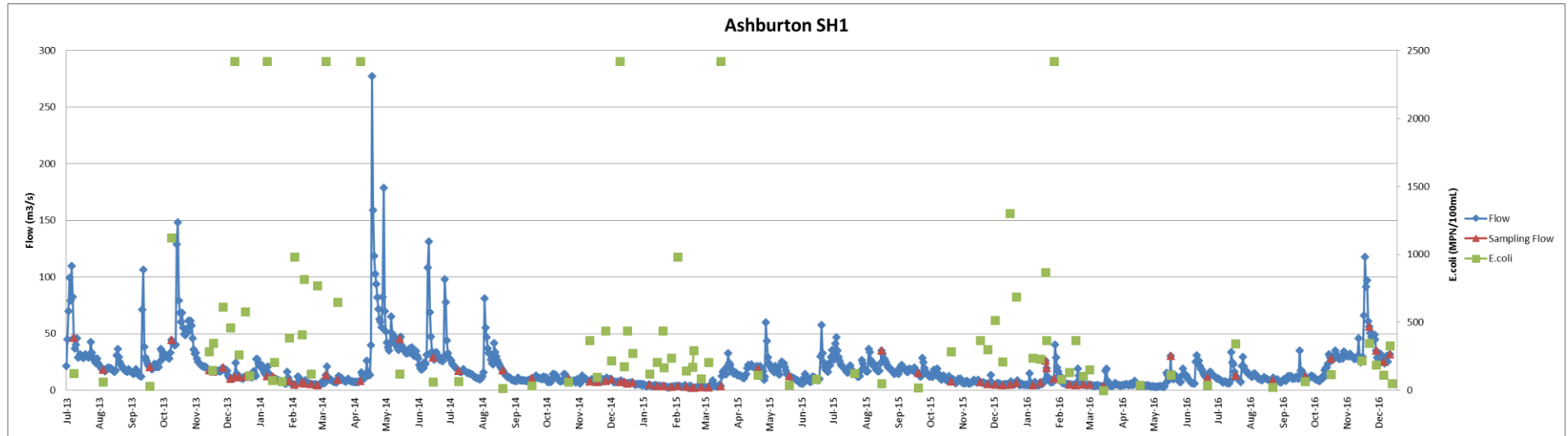
Recommendation.

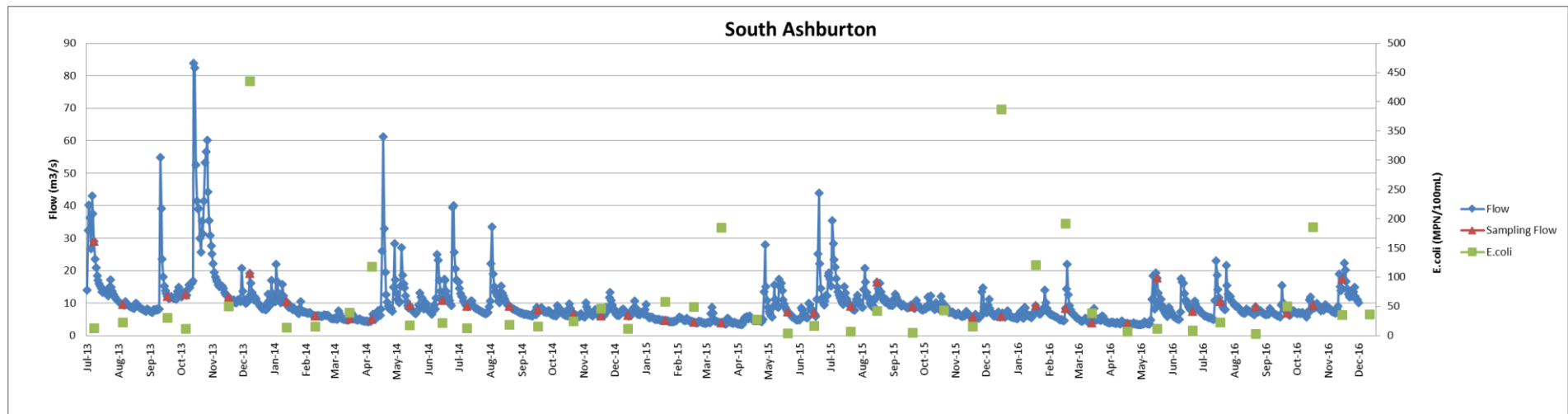
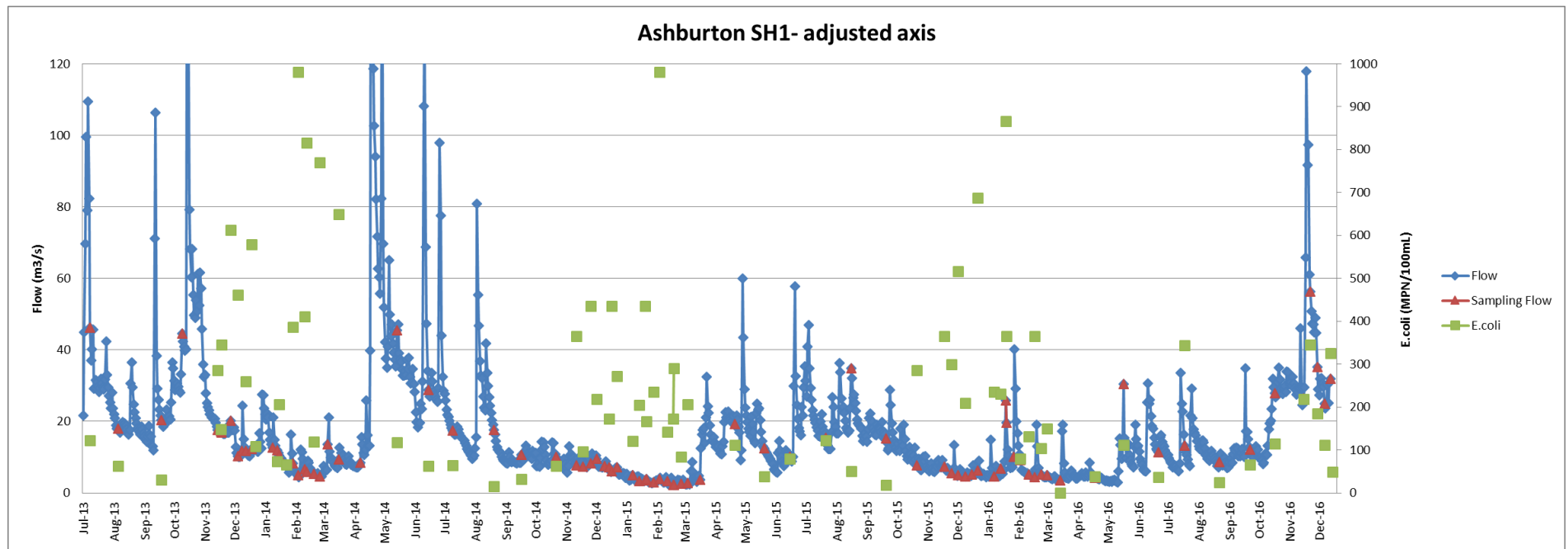
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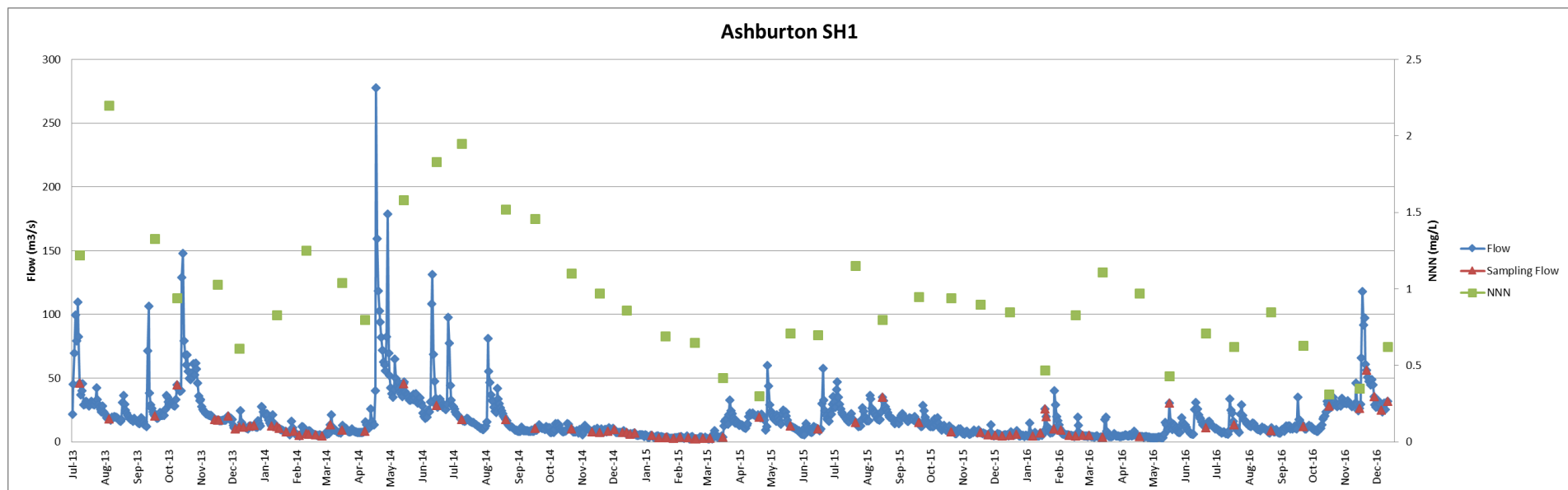
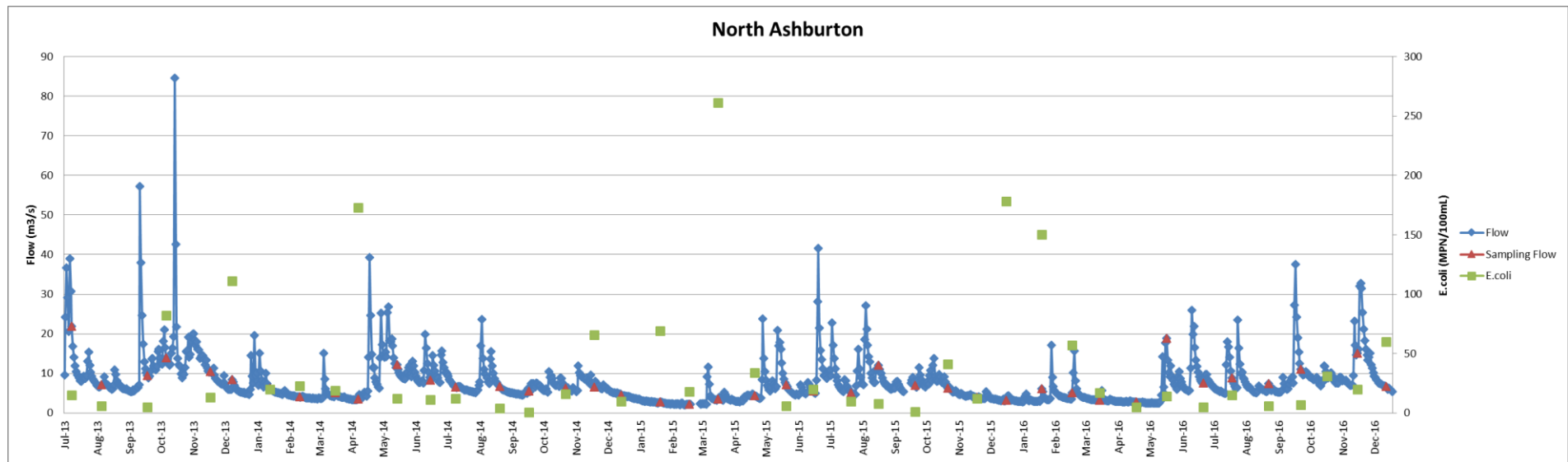
- **receive a verbal update on the** Rakaia Enhancement Fund Committee.
- **appoint** a Zone Committee representative and alternative representative on the Rakaia Enhancement Fund Committee.

15 Reports for Committee Information

15.1 Ecoli Results







Ashburton Zone Committee Meeting

Tuesday 24 January 2017

Timetable		
Time	Item	
1:00 pm	Meeting Commences	

Order of Business

- 1 Welcome, Karakia and Introductions
- 2 Apologies
- 3 Extraordinary Business
- 4 Register of Interests1
- 5 Confirmation of Minutes Unconfirmed Minutes.....3
- 6 Correspondence
- 7 Facilitator Update (verbal)
- 8 MAR Governance Group (verbal)
- 9 N Check: An alternative model to OVERSEER for estimating nitrogen losses6
- 10 Zone Committee Communications Plan 201710
- 11 Feedback on draft annual report (verbal)
- 12 Ashburton Zone Committee 5 Year Outcomes & Milestones Delivery quarterly
update – Oct-Dec 2016.....11
- 13 Rakaia Enhancement Fund - Election of Representative and Alternate Representative ..24
- 14 Discussion about Zone Committee work programme for 2017 (verbal)
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