

## FLAG MEETING NOTES: 07 July 2017

<b>Purpose:</b>	Takaka Freshwater and Land Advisory Group (FLAG)– Meeting 31
<b>Date:</b>	07 July 2017
<b>Time:</b>	9.30am-3.00pm
<b>Venue:</b>	GB Rec Centre – community room
<b>Present:</b>	<p><b>FLAG members:</b>            Graham Ball (GB)            Greg Anderson (GA)            Mike Newman (MN)            Piers MacLaren (PM)            Mirka Langford (MLa - left after lunch)            Kirsty Joynt (KJ -left about 2 pm)            Martine Bouillir (MB)            Mik Symmons (MS)            Matt Rountree (MR)            Margie Little (MLi – after 10.30am)            Tony Reilly (TR)            Chris Hill (CH- after 1.30pm)</p> <p><b>Staff:</b>            Steve Markham (SM – Principal Policy Planner)            Joseph Thomas (JT -Resource Scientist - Water &amp; Special Projects)            Lisa McGlinchey (LM – Coordinator- Natural Resources Policy)</p> <p>Cr Sue Brown (SB – Golden Bay Ward Councillor)</p> <p>Rochelle Selby-Neal (RSN -Independent Facilitator)            Andrew Fenemor (AF - Landcare Research – observer/advisor)</p>
<b>Apologies:</b>	none
<b>Notes taken by:</b>	Lisa McGlinchey (supplemented by other staff)
<b>Definitions and Abbreviations</b>	AMA = Arthur Marble Aquifer FLAG = Freshwater and Land Advisory Group FoGB = Friends of Golden Bay l/s = litres per second MALF = Mean Annual Low Flow NOF= National Objectives Framework – under the NPS-FM NPS-FM 2014 = National Policy Statement for Freshwater Management 2014 TLA = Takaka Limestone Aquifer TRMP = Tasman Resource Management Plan (the Plan) TUGA = Takaka Unconfined Gravel Aquifer TWMC = Takaka Water Management Catchments TWS = Te Waikoropupu Springs SOE = State of the Environment WCO = Water Conservation Order application for Te Waikoropupu Springs and recharge area FM = FLAG member
<p><i>Note: records of discussion points have been grouped into similar topics and are not necessarily in the order discussed at the meeting. Notes in square brackets [ ] have been added post meeting for clarity.</i></p>	
<p><b>FLAG MEMBERS PLEASE NOTE:</b> If you have any questions or need anything between meetings, then please contact Lisa McGlinchey by email: <a href="mailto:lisa@tasman.govt.nz">lisa@tasman.govt.nz</a> or by phone ddi 03 543 8409.</p>	

### **NOTE about these meeting notes**

*These notes provide a summary of the points raised by individuals at the FLAG meeting – they are not necessarily a representation of the views held by any or all members. The comments cover the diversity of experiences and opinions on the group. The views expressed here are also open to develop and change at any time.*

### **Purpose of Meeting**

- Discuss the Water Conservation Order Process and agree remaining FLAG process
- Discuss the options for the AMA Recharge in light of the WCO process and consideration of community feedback
- Meet with Alec Milne and Richard Stocker on behalf of the Onekaka Biodiversity Group

### **Session 1: Welcome/Outline of the day/Context**

- Welcome and karakia
- Health & Safety

RSN outlined agenda – some fluidity. So that TDC staff have time to write up the plan change, and with consideration for TDC constraints around resourcing, their intention is that this is the last FLAG meeting until either there is a draft plan change to review, or the WCO is notified and a submission is required.

### **Check-in Round table**

FM – The format for WCO submission template would provide a good process to achieve outcome at today's meeting.

FM – We've done well over 3 years, especially since national perception around freshwater has changed. Not sure how the plan change will evolve without consensus – unfortunate/shame that we haven't had a chance to talk more about water quality issues and farming land uses.

FM – I'm conscious we haven't got to bottom of land use controls and adaptive management. With the WCO application – mind turning to what kind of plan change would be required to support the WCO as applied for, and what the differences are between where FLAG has got to. I would support a FLAG submission outlining where we have got to, and for the tribunal to be provided with the same information as FLAG.

FM – Looking back I wonder how much we've gained through this community forum – we have been thrown into something mind boggling – unsure we are going to get to where we want to. Struggle to understand everything – should we have had more experts at the table? Questioning if I should have been at the table. WCO is a spanner in works – cut us off a bit. Perhaps follow format provided for WCO process template. Hope tribunal take heed of what FLAG has done and results we've come up with.

FM – I feel a bit flat, reading through WCO application I'm hoping tribunal will see it as we do - as there is a lot that agrees with what FLAG has done already. We need to ensure the tribunal sees all the same information that we have had. Not sure how we can have a plan change developed before the WCO is decided. Regarding land use – the primary sector is going that way anyway and there is a lot of hot air around this currently, but farmers are going to be getting on with it in a positive way. Stick with the original agenda to discuss the WCO submission. We need to provide quality information to the tribunal so they make a quality decision.

Sue B – I initially thought that we needed to progress the plan change and WCO in parallel – but changing now – consider cost to rate payers of continuing in parallel, and community

seems to have lost faith in FLAG process. Disappointed that the concentration is on water quantity, but the use of the land is more pivotal in the plan.

FM – I'm pleased to hear timeframes and that we're getting a close on this process. In terms of WCO, this will take time to go through (previous ones took years) and there is cost involved. I don't support doing a detailed [FLAG] submission to the WCO – but a high level one should be done – recognising social and economic considerations. Focus what we do/don't agree on in the plan change – use the plan change as a guide for the WCO. Stick to what we were tasked to do – do the plan change in a draft form and the tribunal can then use this as a guide. I don't want to be part of both processes. I don't support spending more time developing a detailed submission.

FM – there is so much emotion around this – I'm keen for impartial arbitration of issues. Regarding timeframes – likely WCO will take some time – no specific deadlines to keep momentum. I think our proposal is well thought out in terms of effectively using the storage in the Cobb. There is only one bore into the deep aquifer at the moment – I don't see any great demand for this – if we included the confined AMA in the recharge limit this would head off a disagreement without much impact to the outcome. I think sediment, not nitrate is going to be the bigger water quality issue. I would be supportive of land use guidelines eg trapping sediments in low points on farms. I think any submission on the WCO should be high level and cover the considerations used for our interim decisions.

FM – the original draft WCO and the final application are very different – it needs the detail from the FLAG work to make it work. There are aspects where we can't agree with the WCO – I agree with others that we do a high level submission, but there are details that we shouldn't support – eg inclusion of the Anatoki. Regarding water quality – this is being discussed up and down the country – it is not up for us to decide on all the details, I don't think we need to get into too much detail on this, as it will be overtaken by events. There is a lot of similarity with the previous native forests work and there are people who will just look at the technical aspects, without taking into account human factors and sociology – eg the sacredness with which New Zealanders hold native forest wasn't included in equation – and the same goes for the sacredness of TWS. People have a democratic right to be heard and we can't take away something they think is sacred and special just because the technical aspects say we could. Keen for project to finish.

FM – agree with bits of others comments – WCO, community, quality, etc – all are equal. But we have spent more time on quantity than quality. We have sediment effects in the bay, rock walling of rivers is just making the issue worse. Farmers have been doing a lot of good work and I want to see this continue – but still some issues occurring (eg sediment discharges and impacts of river management). Keen to see project to finish and get output. Water storage is key. When we grew up without reticulation – we learned water efficiency – now people waste a lot of water due to its availability. Every new build should have compulsory storage (there are civil defence benefits too). Should have a supporting document into WCO process about sediment and its effects. It all starts from the mountains and is connected to sea. Some irrigators and Council staff say water running out to sea is being wasted – and this is wrong.

*FM – there have been advances in freshwater sciences. There is a 2016 book Advances in NZ Freshwater Science, which has a useful chapter including mitigation methods for N, P and suspended solids losses. These need rules and boots on ground to enforce them...*

**Action:** JT to advise where FLAG members can find a copy of the *advances in freshwater science* book.

*[Post meeting update: the TDC Library has two copies of the book "Advances in NZ Freshwater Science" – a copy is available at the Takaka Library - or it can be purchased online from the link:*

<http://www.hydrologynz.org.nz/index.php/nzhs-publications/nzhs-books/order-books/>

FM – thanks to others for their honest comments - hard to understand information, and what don't I know? and what questions should we ask? Mixture of feelings – some relief that the WCO is going through a formal process – I always thought that Council might pull the pin on the water quality aspect – as it is politically driven. Agree we keep WCO submission high level. Would be good to put some local tailoring on land management, not just adopt say Canterbury solutions. I hope FLAG can come out of this with their heads held high – we have produced a lot of valuable information for the WCO process. We need to own our process – our hearts and minds are in this process and we did good work – we don't need to pick holes in it – come out of this in a good way. We've built bridges through this process – despite our differences.

**FM – listening to the others – I wondered how the plan change can be done without the WCO decision – but is the solution to go ahead with the plan change and that informs the WCO?**

FM – [added later] I think the FLAG process/plan will still continue – I see the WCO as a higher level thing and work to complete this still needs to go on – I'm still committed to the FLAG process. It would be a waste of time otherwise – I don't think that was the intention of the WCO.

FM – [added later] One of my tasks is to help facilitate the process to bring mātauranga Māori into the process – to this end Ursula Passl and I have been working with Steve and Lisa to develop an agreement for this. The Mayor has sent a letter to Manawhenua ki Mohua (MKM) outlining council support for a partnership approach. Part of the work is to assess the FLAG work to date and produce a Mātauranga Māori report. We [Māori] have a seamless relationship between the air, land, water and people. We take a holistic view and the report will reflect this. Our involvement will also include work with staff on the policy development. We've waited 18 years for something this good.

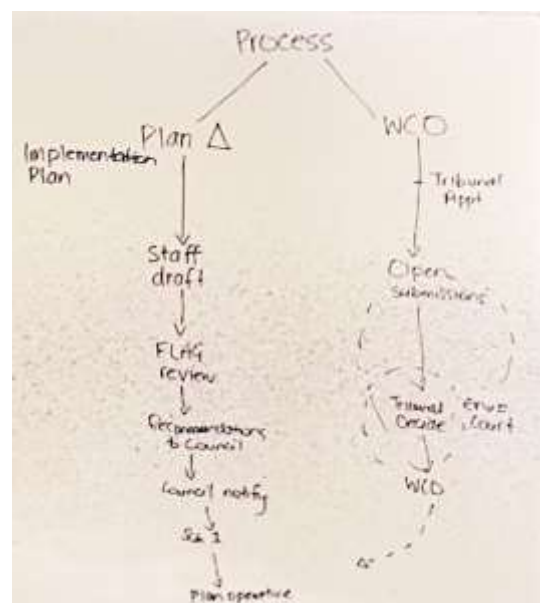
*RSN: Everyone around the table has been important in this process. It is important FLAG have the opportunity to determine what they agree on. This project has not necessarily been longer than others around the country – but this process has had less council staff resourcing than other similar projects. I'm keen for outputs to be achieved. I would like to get a sense of how you are all feeling about your commitment to the group and process growing forward.*

## Session 2: Water Conservation Order process

RSN went through the WCO vs Plan Change process (timing relationship unknown at present).

### Key points raised in discussion:

- WCO timeframes are up to tribunal – no specific requirements in RMA on this
- Tribunal funded by government – they are able to seek external advice prior to – and after - notification of the WCO
- Council could put a submission in looking at technical matters, implementation matters, drafting issues and where FLAG had got to, and possibly supporting a FLAG [single] position if there is one.
- FLAG submission could focus on: where WCO applies (the waters it covers), what it seeks to protect – relates back to values



and management objectives identified by FLAG process, may also want to delve into the level of protection – ie the limits at the springs/recharge, cease takes etc, supporting information/science that FLAG has considered, where there is agreement and divergence in FLAG recommendations and rationale for these.

*SM: For the submission to be used by the Tribunal – the submission will need to be clear on what it wants in regard to the WCO. It can't just say "X number of FLAG want this, Y number of FLAG want this and this is why". FLAG could take a 'friend of the court' stance and say what aspects need to be considered by the Tribunal.*

*RSN: Could FLAG take a neutral stance on the points of difference, but provide information to the Tribunal on where FLAG got to and why?*

*FM: We could also just provide all the information to the Tribunal and leave the decision up to them...*

*JT: FLAG need be careful when getting into the numbers, as FLAG will have to defend whatever is in their submission. Arguments over numbers will come down to what the technical information shows and the interpretation.*

- Need to consider options for what goes in the plan change in the meantime – e.g. a rule to halt or fix an allocation limit until the WCO is decided, formalising the waiting list, etc...

**FM: I've had comments from a fisherman on the Buller saying the WCO has done stuff-all for the river because land use changes were not put in place by Council at the time.**

*SM: Earlier I gave you an outline of the WCO and plans – once there is a WCO, the plan must be consistent with it – so the plan would need to be amended to match it.*

*AF: WCOs only control water and discharge permits (and related plan rules), not land uses or management practices contributing to water quality*

*LM/JT: A WCO can't itself limit land use, or affect or restrict existing resource consents [refer RMA sec 217].*

*LM: A WCO works best if there is a plan that supports it.*

*SM: There are common features in both plans and WCOs.*

*LM: The NPS-FM will make the larger impact on freshwater management.*

*SM: The outstanding water body policy in the NPS-FM reflects the WCO intent.*

**FM: So when the plan change is notified the plan change has legal effect?**

*SM: Yes even though it may be changed through the process before it becomes operative. Whereas the WCO won't have an effect until it is gazetted.*

**FM: It would be good if aspects such as cease takes had legal effect sooner – but what happens if there is a rush for water?**

*RSN: We will go through this later today as there are some key considerations to cover...*

**FM: Can we put in individual submissions [to the WCO]?**

*Staff: Yes, as well as a joint FLAG one.*

**FM: My perception of FLAG is an advisory group to present recommendations to Council – but we are not there to be cross-examined in the process?**

*JT: It's open to the tribunal to hear from anyone who has submitted and also to be questioned on their submission.*

*FM: We are not presenting information, we are presenting our interpretations and recommendations based on that information.*

**FM: Will the tribunal have all the information we have had?**

*Staff: They can ask for it. [The tribunal is more likely only to hear from people and agencies who ask to be heard. It would only ask for information if it thought there was a knowledge gap, and only if it knew the information existed.]*

*FM: We can list the information in our submission.*

*SM: The Tribunal will likely make enquiries to assist it to understand the application and context – it may do this before or after it chooses to notify the WCO.*

MS offered to draft a WCO submission on behalf of FLAG for everyone to comment on. Offer accepted/agreed by members.

**Action:** MS to start work on a draft WCO submission for FLAG to comment on.

### **Session 3: Remaining FLAG Process - Plan Change Drafting**

**RSN:** I've heard comments from some FLAG members and staff that FLAG's focus should be on progressing the draft plan change. I want to go over how this can occur.

**FM:** How does the work programme fit with the timeline we received a few meetings back? **LM provided update on each stream of work – all workstreams are being progressed, none have been completed to the timeframes previously stated]**

#### **Plan change development and Implementation plan**

LM went over the background work that has occurred around water quality management, the plan change development and implementation plan, and what has changed since last meetings.

**Action:** LM to refine timeline and provide to FLAG

#### **Key points:**

Changes already being made on water quality management:

- **Onsite wastewater** – education resources being updated for online and compliance staff use, audit programme to be included in implementation plan recommendations.
- **Sediment** – Land disturbance rule review to be progressed in next 12 months, alongside joint Nelson-Tasman land development manual and adoption of erosion and sediment control guideline for development. Geotechnical advice being sought on erosion/sedimentation risk to inform rules. Science space: sediment source tracking project being pursued
- **Point sources:** staff discussing management of composting toilets, looking to cover this in TRMP rules and in building processes
- **GMP** – there has been a review of the fencing/planning subsidy – how it is managed - can include review of amount of subsidy in improvement program. There has also been a proposal for a new land management advisory role which may eventuate in year 3 and could help with council-industry-community liaison and partnering.
- **Monitoring** – a new site (Lindsay's bridge and new parameters (eg DOC)) have been added to the SOE monitoring program – others will be included in the implementation plan recommendations. Work is ongoing to see if it is viable to measure water clarity at TWS.
- **Economic** – Council staff currently working to provide information on relative urban-rural rates bases in Takaka zones - as rates via land value is one path by which money directly flows from land use to community.

**Action:** LM to meet with TDC staff to discuss a brief for further economics work.

Remaining aspects to go into improvement programme:

- Additional monitoring
- Remaining GMP work [plus restoration partnering]
- Onsite wastewater auditing

Plan Change drafting status:

- Chapters in TRMP involve 4 policy, 4 rules, 3 info, definitions chaps + content in others – staff also looking at structural changes to make using plan easier and allow for integrated approach

- Looking at possible Takaka specific vs Tasman wide changes – at least two (or more) changes required to achieve everything. Other considerations – eg implications of Havelock North enquiry findings also included in wider Tasman considerations
- GMP - initial workshop with local farmers held. Interest in catchment group, but would need industry support to manage. Interest from DairyNZ to support work in catchment, however request for letter from FLAG defining water quality problem from FLAG's perspective – what do farmers/industry specifically need to address, what are the targets?. Also desire to understand how GMP will be linked to regulation – this makes the plan change draft higher priority

**Action:** MLa to start work on draft of water quality problem definition for farming community - why GMP needed, what needs to be resolved etc. (with help from other FLAG)

- Working with iwi – MKM-Council partnership agreement and works contract being developed by MKM and Council staff – anticipating approval/signoff by end of July.

### RSN went over TDC suggested plan change staging summary

#### Key points:

- Staff to draft plan change by mid October 2017
- FLAG review of draft by Nov 2017
- FLAG Recommendations to Council by Dec 2017
- Very tight timeframe – need to refine scope/staging of plan change and other remaining work to meet this

#### FM: Is FLAG required to go back to the community before making their recommendations to Council?

LM: Not legally required, but FLAG have previously discussed going back to the community with the water quality package, but you may want to make this decision on what you want to do once you've seen the initial draft plan change.

#### RSN: Are there any surprises/new things? ...

##### Any concerns or things you feel positive about?

- The GMP requirements (or placeholder for them to be defined later, i.e. “hooks” in the plan change) – these need to be definitive to ensure they actually happen.
- Feel positive we are heading to getting a conclusion.
- Focus on where we want to get to on the plan change to get it out there for the WCO process to use

**Break out group session** – What do you want in the first plan change draft?– what are the must haves? – and what are the things you are happy to have as ‘hooks’ [with detailed content to come later]?

#### Group 1 – Must haves:

- Don't want to be seen pre-empting WCO
- AL/MF/CT
- Water quality monitoring and triggers
- Water quality – FEPs for allocation, hook – uncertain about stages
- Enabling policy for storage
- Management of landuse – activity status criteria applied to different landuses

#### Group 2 - Additional must haves not covered by group 1:

- Values from the FLAG group
- Recognition that TWS is an outstanding freshwater *body* [this is already in Schedule 30A]
- Fencing and riparian setbacks – all pastoral farming – Takaka catchments only
- Onsite wastewater management – (management methods)

**Group 2 – hooks:**

- GMP hook

**Group 2 – Tasman wide aspects:**

- Storage promotion/enabling

**Group 3:**

- Lisa to come back with plan draft – staff to make the initial drafting decisions
- Start with those things FLAG have agreed to and options for those we haven't
- 521 vs 766 l/sec AMA recharge zones limit – could put in draft status quo allocation as a default allocation limit or use the TRMP allocation policy re: 10% of TWS 5 yr low flow ie 670 l/s)

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**Group discussion** around options for limits in plan change vs WCO process including accounting approach used to set allocation limit.

*LM: Remember there is no allocation number in the WCO application – it is suggesting maintaining status quo at the time of gazetting - which could be in several years – in light of this I suggest you consider what you want in the plan as if there was no WCO application.*

**RSN: LM has previously been directed by FLAG to draft the plan change based on the interim decisions report - since then public has made their opinions known and the WCO has been accepted for processing, and we are considering having just hooks for some aspects to the water quality – as a result have FLAG's positions on the interim decisions changed?**

RSN: The following options have been raised for the plan change:

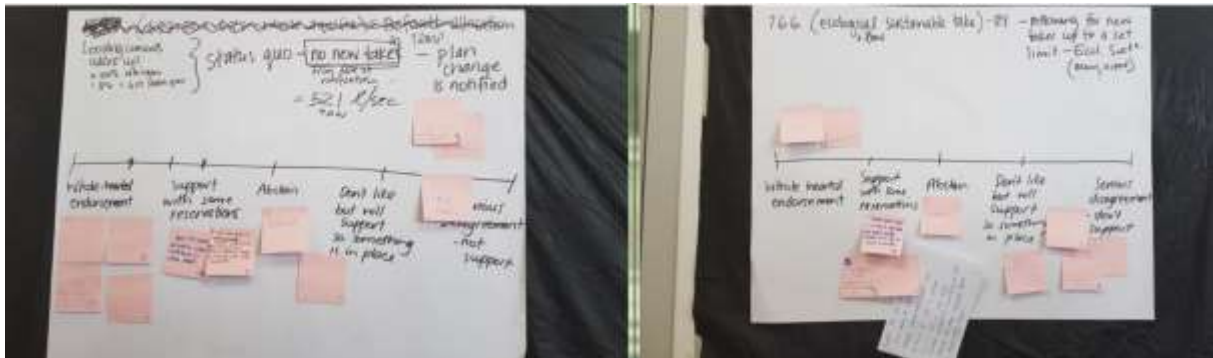
- Status quo:
  - Be silent and let the default policy speak - ie 10% of 5yr low flow (670 l/s)
  - Or put in a plan change for 'no new takes' until WCO decided
- Plan change:
  - No new takes
  - Or, Allocation limit which maintains ecological values (eg 766 l/s which would allow a little more take)
- Also need to consider whether confined AMA is included or not in any allocation limit...

*JT: We will need to rework the cease take triggers for Waingaro and Takaka river takes if we use the default allocation.*



**Group session: RSN asked FLAG to place themselves on two spectrums for the options of 'status quo' and '766'**

The group responses covered the full spectrum on both options, from no support to full support.



**LM: Have members put only '766' or 'status quo' - or are there other options raised?**

4 options raised:

- 766 l/s
- no new takes(status quo)
- staged release of allocation
- allocation, but with A and B takes (B being cut off sooner than A)

**RSN: What are the Drivers for where on the spectrum you sit?**

- Precaution
- Not Limiting peoples options for future – making water available
- Expert advice provided on ecological protection, and limited time that cease takes would be active
- I'm happy with the level of conservatism built into the 766 l/s
- What the community thinks
- Waiting for the WCO to be decided
- Responsibilities to the next and future generations – i.e no risk
- Need to be able to defend approach – is it heart driven or science driven?
- 766 l/s is based on good conservative science, and no science around limiting allocations to status quo so hard to justify
- Climate change – uncertainty with weather patterns – to think we can manage food supply without water in the future is not sensible
- Agree with science comments, but there is a spiritual element that is important and this overrides the technological considerations
- I thought we'd reached consensus on 766 l/s – if we change from this now - is this defensible?

....

**RSN: The actions/approach agreed to today include:**

- **Action:** MS to start work on a draft WCO submission for FLAG to comment on.
- **Action:** MLa to start work on draft of water quality problem definition for farming community - why GMP needed, what needs to be resolved etc.
- **Action:** LM to focus on drafting plan based on instructions agreed today and outcomes from FLAG positions.

### **RSN: Anyone uncomfortable with this approach?... Everyone comfortable?**

No dissent from group.

### **FM: Can we get dates set aside for that meeting?**

Agreed: Friday 13 October

### **RSN: Any comments from today?**

**FM: There are two deep takes currently – I'm comfortable with harvesting surface water when there is lots of it – but I'm not sure about groundwater takes and effects on mixing processes in aquifers – I'd rather we were allocating surface water takes.**

*SM: Do you mean from the AMA - or all groundwater?*

*FM: Deep takes [from the AMA] – I'm wondering should we be limiting deep takes from the marble? It's just a gut feeling – it feels more intrusive...*

*JT: How do you classify bores that are in the gravels above the marble?*

**Action:** LM to consider exclusion on AMA takes during drafting of the plan and implications given previous focus on protecting surface water.

**FM: It is not the flow that will affect the springs, but the water quality that goes into it – if it can be shown that the water quality can be maintained, then sure allocate more water...**

**FM: The AMA aquifer is not the kind of confined aquifer that doesn't go anywhere – it is under pressure all the time and JT has mentioned using the pressure as a cease take trigger for the confined AMA.**

*JT: Agreed. Note we can't show a measureable effect of abstractions in either pressure or flow.*

**FM: If we make a personal submission – should we identify ourselves as FLAG?**

*RSN: It would probably be helpful to the Tribunal, however if doing individual submissions consider whether anything you say may undermine a FLAG position.*

*SM: Any points of non-consensus are an important piece of information for the Tribunal, they will need to look at this carefully.*

LM provided the FLAG with a summary of the values identified by FLAG for the waters in the WCO draft schedules and the associated attributes and management approaches identified through the FLAG process.

## **Session 4: Alec Milne & Richard Stocker – Onekaka Biodiversity Group**

At the request of Alec Milne, he and Richard presented their concerns to the FLAG. Alec and Richard live and farm in the coastal western catchments – they are using Onekaka as an example of a small coastal river. They are both representing the Onekaka Biodiversity Group (OBG) – involved with pest control and riparian restoration in the Onekaka catchment.

### **Key points:**

- OBG would like FLAG to recognise biodiversity in its own right as a value
- We refer to the MfE "[Our Fresh Water 2017](#)" report
- High diversity of fish in Onekaka and fresh water mussel
- Fish species in decline generally

**SM: Are you interested in fish or general aquatic ecosystem biodiversity?**

AM: We're interested in fish, but looking at aquatic ecosystem biodiversity.

*AM showed Graph of NIWA survey site showing dewatered section and showing a drop in fish diversity.*

- Drop in flow regime had an impact on fish diversity, but little change in MCI – therefore fish should be the indicator, not just MCI.
- Suggest a financial contribution for consent holders to fund monitoring of fish numbers – this should provide baseline surveys, not just monitoring once consents are initiated. We can't prove a statistical change without a good baseline.
- Review clauses [in consents] don't seem to work – both consents have these, but they don't seem to have made a difference.
- Demand for water is going to get worse with climate change.
- Transparency [of consenting] – unless information is available to the public regarding consents etc – it needs to be available to the community - consents need to be notified so community can have input to decisions.
- Existing takes – half use water for domestic use, half for stock water etc – we think the permitted takes (about 9 l/sec) are already taking up half of the allocation and this was not taken into account in the past consenting. All of the allocation is absorbed by permitted takes – there is no room for consented takes in the Onekaka.
- There are issues with the existing consents - OBG asking that the existing take not be grand-fathered and it is reapplied for as a notified consent.

*JT: The consent was considered using the information available at the time. If the consent has not been used [as suggested] then the consent would lapse, and it would be a new consent application not a consent renewal.*

*LM: There are two issues here – firstly, the existing consent and its operating conditions – these will change to match the new regime the FLAG are proposing – the proposed grand-fathered aspect was only for the allocation amount, not the other operating conditions such as cease take. The second is the issue of whether the permitted takes have been taken into account in the allocation limit identified so far. Council staff are going to be meeting soon to discuss this very issue for all small streams in the Takaka catchments.*

**Action:** LM to advise FLAG of meeting outcome on permitted takes accounting in allocation regimes.

<meeting end>

## Action Points – Council Staff/Facilitator/Advisor

No.	What	Who
1.	JT to advise where FLAG members can find a copy of the <i>advances in freshwater science</i> book.	JT
2.	LM to refine timeline and provide to FLAG	LM
3.	LM to meet with TDC staff to discuss brief for further economics work.	LM
4.	LM to focus on drafting plan based on instructions agreed today and outcomes from FLAG positions.	LM
5.	LM to consider exclusion on AMA takes during drafting of the plan and implications given previous focus on protecting surface water.	LM
6.	LM to advise FLAG of meeting outcome on permitted takes accounting in allocation regimes	LM

## Action Points – FLAG members

No.	What	Who
7.	MS to start work on a draft WCO submission for FLAG to comment on.	
8.	MLa to start work on draft of water quality problem definition for farming community - why GMP needed, what needs to be resolved etc.	

## Action Points – FLAG Sub-groups

No.	What	Who
9.	None	

## Scheduled FLAG and FLAG Subgroup meetings

<b>Date</b>	13 October 2017
<b>Time</b>	9.00am
<b>Venue</b>	(tbc) TDC offices - Takaka
<b>Agenda Items</b>	Draft plan change

## Information and resource documents identified during meeting

Date	Title	Author/Source
	None	

\*Key documents available electronically will be added to the online PDF document bibliography.

## Issues or topics identified during meeting for future consideration

Topic/Issue Description
<ul style="list-style-type: none"> <li>• none</li> </ul>

\*Issues or topics unable to be addressed at the meeting, but requiring future consideration will be recorded in the Takaka FLAG 'Information Eddy'.