Summary Table – Outline of experts and Issues of contention from submitters who have been granted a time extension until 19 October 2009.

Submitter	Name(s) of experts	Topic(s) expert will be covering	Main issues of contention
Palmerston North City Council	*Mr Andrew Bashford (Planner)*	*All Water Topics*	- *Water quality standards and their implementation* - *Long term security for the wastewater treatment plant* - *Option of SLUI type regime for water quality* - *Turitea water supply and rare and threatened wetland classification* - *Turitea minimum flow and core allocation*
	Mr Chris Pepper (Engineer)	*All Water Topics*	- *Water quality standards and their implementation* - *Long term security for the wastewater treatment plant* - *Option of SLUI type regime for water quality* - *Turitea minimum flow and core allocation*
	Mr Keith Hamill (Environmental Scientist)	*Water quality*	- *Water quality standards in relation to Lower Manawatu Catchment Zone*
	Dr Jack McConchie (Water resources scientist)	*Water quantity*	- *Turitea MALF/ minimum flow and core allocation*
	Mr Matt Conway (Legal representation)	*Legal representation and advice as required*	
King Country Energy	*David Schumacher (Planner - Ryder Consulting)*	*Water Allocation, Use and Maintenance of structures within the Beds of rivers and lakes*	*Providing for existing takes for Hydroelectric Power Generation, provide for the use and maintenance of existing structures in the bed of rivers and lakes*
	Chris Fincham - King Country Energy Limited	*Company evidence relating to KCE's interests in the Manawatu*	

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		Wanganui Region	
Todd Energy	*David Schumacher (Planner - Ryder Consulting)*	*Water Allocation, Use and Maintenance of structures within the Beds of rivers and lakes*	*Providing for existing takes for Hydroelectric Power Generation, provide for the use and maintenance of existing structures in the bed of rivers and lakes*
	Bill Armstrong - Todd Energy Limited	*Company evidence relating to Todd Energy's interests in the Manawatu Wanganui Region*	
Higgins	*Nathan Baker*	*Beds of Rivers and Lakes*	*The lack of supporting policy/methods for Policy 6-32*
Fonterra	*Sean Newland (Sustainable Dairying Strategist, Fonterra Milk Supply, Fonterra Co-operative Group Limited)*	*FARM strategy, Water Quality, Water Quantity*	- *Description of Fonterra and its various interests in the Manawatu-Wanganui Region;* - *Fonterra's existing programmes to improve on-farm performance in the Region;* - *Fonterra's concerns with Rule 13.1, including:* o *The need for a longer lead-in time to socialise farmers to regulation;* o *That the regulatory costs associated with the POP approach will outweigh environmental benefits;* - *Description of Fonterra's suggested changes to Rule 13.1:* o *Introduction of permitted activity rule for dairy farming within WMZs where farms can demonstrate they are operating within appropriate N loss limits;* o *Extension of the dates in Table 13.1, to give farmers more time to plan and adjust;* o *Increasing the nitrogen leaching/run-off values in Table 13.2, and providing a formula for calculating alternative values for existing*

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			farmers who may not be able to comply with the values currently in the table; o *Altering the rate of nitrogen leaching/run-off value decrease provided in Table 13.2, in order to give farmers more time to achieve the values in the table;* o *Supporting by way of inclusion of an additional policy, the proposition that no current dairy farmer will be put out of business because of an inability to meet nutrient loss targets;* - *Fonterra's alternative to allocating water on per-property basis;* - *That the POP should allow the taking of stock drinking water at a rate of 70 litres per dairy stock unit per day (under s14(3)(b)), in addition to the provision of permitted activity rules for the taking of water for stock drinking and dairy shed use.*
	John Russell (Processing)	*FARM strategy, Water Quality, Water Quantity*	- *Importance of dairy processing to the region;* - *Description of dairy processing activities regulated by the POP;* - *Impact of the POP on the Longburn and Pahiatua Dairy Factories.*
	Mike Scarsbrook (Development Team Leader (Sustainability) DairyNZ)	*Water quality*	- *Description of existing water quality in the region;* - *Discussion of water quality standards and values in Schedules D and Ba;* - *Relative importance of nitrogen vs P, E coli and sediment.*
	Duncan Smeaton (Agricultural Consultant)	*FARM strategy, Water Quality, Water Quantity*	- *Comments on existing nitrogen losses in the region;* - *Available technologies for mitigating nitrogen loss, and*

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			limitations of those technologies; - *The marginal cost of nitrogen loss mitigation measures and current on-farm practices and technologies;* - *The practicalities of what farmers will need to do in order to comply with the POP requirements;* - *Whether the FARM Strategy/LUC approach is soundly based on science.*
	Matthew Newman (Economist, DairyNZ)	*FARM strategy, Water Quality, Water Quantity*	- *Contribution of dairy farming to the regional economy, and any trends;* - *Costs and benefits of the POP approach;* - *Costs and benefits of Fonterra's suggested amendments;* - *Efficiency of using the policies and rules in the POP to achieve objectives.*
	Terry Parminter (Social scientist)	*FARM strategy, Water Quality,*	- *Methods of achieving behaviour change;* - *Recommendations regarding how best to achieve a change in farmers' management of N-loss in the Region.*
	Gerard Willis (Planner and Director or Enfocus Limited)	*FARM strategy, Water Quality,*	- *Description of Fonterra's recommended amendments to the POP text;* - *Comparison of POP provisions and Fonterra's suggested amendments in terms of consistency with Part 2 of the RMA;* - *Section 32 considerations.*
Minister of Conservation	*Logan Brown (freshwater ecology)* *Julian Watts (planning)* *The Department will also rely on the evidence of Ian Fuller (fluvial*	*All water topics*	*a. Rivers and lake beds (including the Environmental Code of Practice for River Works and the Lower Whanganui Scheme);* *b. Water management generally, and more particularly, the 2030 target date recommended by officers (Water Officer's Report – recommendation WTR 16);*

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	geomorphology) and Gary Williams (river management).		*c. Water quantity and allocation (including minimum flows, provision in times of water shortage and alternative water sources);* *d. Water quality (including the enhancement of surface water quality where water quality standards are not met, groundwater quality and point source discharges to water and land);* *e. Water bodies with Natural State, Sites of Significance – Aquatic and Sites of Significance – Riparian values;* *f. Gravel extraction; and* *g. Discharges to water (including the discharge of contaminants on to land and the discharge of fertiliser).*
Ravensdown	*Dr Ants Roberts (Ravensdown's Chief Scientific Officer)*	*FARM strategy (consents to farm, LUC application)*	• *Review of LUC and how it is applied* • *Review of FARM plans* • *Use of Overseer*
	Chris Hansen (planner)	*FARM strategy*	*Planning evidence*
Fish and Game NZ – Wellington Region [1]	*Corina Jordan (Environmental officer, Wellington fish and game)*	*All water topics*	- *planning evidence* - *Evidence relating to the appropriateness of the schedules including; identification of trout fishery values; appropriateness of water quality and quantity standards to protect trout fishery values; and habitat requirements of trout in relation to the BRL section of the plan.*
	Professor Russell Death (Ecologist, Massey University)		- *Evidence relating to the appropriateness of water quality and quantity standards* - *Evidence relating to maintenance of morphological diversity to safeguard freshwater ecosystems*

[1] Fish and Game have also provided a document outlining their 'preliminary final position' on a number of submission points

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	Dr Mike Joy (Ecologist, Massey University)		- *presenting scientific research looking at the impacts of land use change on trout population distribution* - *water quality issues around the region*
	Mr Neels Botha (Ag Reserch)		- *evidence relating to the use of non regulatory vs regulatory methods for controlling impacts of Horticulture and Agriculture practices on the environment*
	Neil Deans (Manager, Nelson-Marlborough fish and game)		- *putting the POP into the national context* - *Evidence relating to the appropriateness of the integrated catchment management approach taken by Horizons Regional Council in the POP*
	Dr Ian Fuller (Geomorphologist, Massey university)		- *evidence relating to the identification of natural character* - *evidence relating to the BRL chapters of the POP and Environmental code of practice*
	Mr Gary Williams (consultant engineer)		- *evidence relating to the identification of natural character* - *evidence relating to the BRL chapters of the POP and Environmental code of practice*
TA Collective	*Garnesh Nana*	*Affordability Issues*	- *Costing of environmental benefits.* - *Affordability and ability to pay.*
	Paul Kennedy	*Water Management Values & Zones*	*Application of water management values and zones at the macro vs micro level.*
	David Cameron	*Water Quality – Overview of Issues & Best Practice*	*The relationship between water quality standards and what can be achieved with current best practice.*
	Braden Austin	*Water Quality - Stormwater*	- *Implications of 2ha rule for TLAs.*

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		Issues	- *Current POP wording and effects of discharges.*
	Ian Rowden	*Water Quality – Case Studies*	*Application to case study.*
	Richard Kirby	*Water Quality & Allocation – Case Studies*	*Application to case study.*
	David Bridges	*Water Quantity & Allocation – Overview of Issues & Best Practice*	- *Implications for TA's.* - *Best practice approach to allocation.* - *Role and function of community infrastructure.*
	Anne-Marie Westcott	*Water Quantity & Allocation – Case Studies*	*Application to case study.*
	Stephen Taylor	*Water Quantity & Allocation – Case Studies*	*Application to case study (demand management & emergencies).*
	Annette Sweeny	*Water Quantity & Allocation – Planning Issues and Case study*	- *Application to case study.* - *Road test of POP provisions.*
	David Forrest	*Planning Assessment & Relief Sought*	*Planning.*

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TrustPower	*Robert Schofield*	*All water topics*	- *the lack of recognition of regionally significant infrastructure within the water provisions; and* - *the potential constraints imposed by the water provisions on the future establishment of new renewable electricity generation schemes (as opposed evidence on more detailed scientific or hydrological matters).*
Mighty River Power	*legal submissions and expert evidence from two planners, an economist and two hydrologists*		
Meridian	*Ms Appleyard, Chapman Tripp, Counsel for Meridian Energy Limited ('MEL');* *Mr Richard Turner, Planning Manager, Natural Resources, MEL;* *Ms Catherine Clarke, Planner, Boffa Miskell Limited.*	*All water topics*	*The general topics to be covered in evidence, are as follows:* *• The water allocation provisions in Chapter 6, are overly weighted towards providing for 'in-stream values', with inappropriate recognition being given to 'out-stream values'. MEL are seeking the Objectives and Policies be revised to address this imbalance;* *• Concern regarding the cross referencing between the provisions regarding renewable energy generation in Chapter 3 and the provisions in Chapters 6, 13, 15 and 16.* *• Insufficient recognition given to Sec ion 7(j), RMA and recognising and providing for renewable energy generation in Chapters 6, 13, 15 and 16.* *• Concerns regarding the lack of recognition in various provisions of the zone of reasonable mixing when assessing compliance with water quality standards, particularly Policy 6-3, Policy 6-4 and Policy 6-5 of Chapter 6.* *• The imposition of common expiry dates for consents granted*

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			under Sections 13, 14 and 15, Resource Management Act; *• Concern regarding the policy provisions in particular Policy 15-5 (b) that set priorities for water allocation, and how these priorities have been used in related policies, rules and methods in the One Plan.*
Forest and Bird	*Dr Russell Death*	*Water Quality and Beds of Rivers.*	*Our main issue is to support the POP rules, and to ensure that all who break the rules realise they have to cease, and do so. We wish to ensure that the quality of the river water steadily improves.*
	Dr Michael Joy.	*Water Quality and Native Fish*	*Our main issue is to support the POP rules, and to ensure that all who break the rules realise they have to cease, and do so. We wish to ensure that the quality of the river water steadily improves.*
Winstone Pulp International	*Carmen Taylor (Golder associates NZ Ltd)*	*Water quality standards*	*General topics:* - *environmental science in relation to appropriateness or otherwise of proposed water quality standards* - *planning evidence with a focus on the implications of the water quality standards (including references policies 6-1 to 6-5; policy 6-8; Policies 13-4 and 15-4; rules 15-5 and 15-6; and schedule D)* *Main issues of contention* - *the water quality standards contained in Schedule D and the implications of the relevant objectives, policies and rules in the POP.*
	Paul Kennedy (Golder associates NZ Ltd)	*Water quality standards*	
AgResearch and Livestock improvement Corp Ltd			

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Horticulture New Zealand		*Water quality*	- *Soil Conservation best practice methods and their application to Horticulture in the Horizons Region.* - *The application of New Zealand GAP (Good Agricultural Practice) to the planning approach adopted by Horizons Regional Council.* - *Development of, and proposed use of the Nitrogen Manager's for Environmental Accountability tool to measure Nitrogen loss from specific horticultural crops.*
Genesis Energy	*Mr Jarrod Bowler – Hydrology* *Mr Richard Matthews – Planning* *Mr Robert Weir – General Manager Production – Genesis Energy*	*All Water Topics*	*(a) Overview of the physical setting, hydrology and operation of the Tongariro Power Scheme ("**TPS**").* *(b) Relationship between the TPS and electricity generation on the Waikato River.* *(c) Overview of the TPS resource consents and consenting process.* *(d) The background and significance of the minimum flows in place in relation to the TPS.* *(e) Relationship between the proposed One Plan provisions and the TPS.* *(f) RMA framework within which the Genesis Energy submissions are to be considered.* *(g) Consideration of the Genesis Energy submissions on the water related topics1 of the Proposed One Plan and suggested changes to the Proposed One Plan provisions.* *Main issues to be addressed:*

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			(a) Allocation of water for existing hydro-electricity generation, and in particular, the TPS. *(b) Appropriate planning provisions to safeguard existing hydro-electricity generation, particularly the TPS.* *(c) Assessment of minimum flows and environmental flows.* *(d) Balancing and prioritising competing interests in water.*