Further information request – Western Rivers Aquatic ecology September 2017

	Details of further information	Peer review memo(s)	Response to request
	required		
		Hutt River	
a.	NRWQN macroinvertebrate data to be	James 2016 (p.2)	
	incorporated into the EMP alongside	James 2017 (Point 1.1)	
	GWRC SOE data to provide some		
	background/context to any future		
	macroinvertebrate sampling		
b.	undertaken.	lamos 2016 (n. 2)	
D.	More detailed information on bluegill bully in particular as this species is	James 2016 (p.2) James 2017 (Point 1.1)	
	resident and abundant in habitats		
	most impacted by flood protection		
	activities.		
	Please add bluegill bully spawning to		
	the parameters that indicate high		
	sensitively to disturbance in the Site		
	Specific Effects Management Scheme		
	described in the Code of Practice and		
	provide an updated copy (note other		
	changes are also requested) or		
	comment on why this is not included.		
с.	More information on recreational and	James 2016 (point 1.2.3)	
	commercial fishing needs to be	James 2017 (Point 1.1)	
	provided.		
	Otaki River		
d.	Estuary information – Previous query	James 2016 (p.4)	

	in the validity of 20+ year old	James 2017 (Point 2.1)
	vegetation data has not been	
	addressed.	
e.	Freshwater mussels – There is still no	James 2016 (p.4)
	information on whether freshwater	James 2017 (Point 2.1)
	mussels are present in the tributary	
	waterways of the application area.	
f.	Trout drift dive data – There is still no	James 2016 (p.4)
	drift dive data for the Otaki River.	James 2017 (Point 2.1)
g.	Aquatic plants – Provision needs to be	James 2015b
	made in the COP for the protection of	James 2017 (point 2.1)
	native macrophytes.	
	Please provide more information on	James 2017 (point 2.1)
	the effects of the proposal on	
	recreational and commercial fishing.	
h.	Please provide further information on	James 2017 (point 2.2.1)
	the effects of upstream activities (i.e.	Submission by
	gravel extraction) on the wetland and	Department of
	lagoon system in the lower Otaki River	Conservation
	estuary.	
١.	Please provide further information on	James 2015b
	hyporheic habitat.	James 2017 (Point 2.2.4)
		Submission by Nga Hapu
		o Otaki
	·	Waikanae River
j.	Estuary information – Previous query	James 2016
	in the validity of 20+ year old	James 2017 (Point 3.1)
	vegetation data has not been	
	addressed.	
k.	More information on recreational and	James 2016
	commercial fishing needs to be	James 2017 (Point 3.1)

	provided.		
Ι.	If you have a copy of the pre and post works monitoring undertaken by Te Ati awa ki Whakarongotai of gravel extraction and channel widening, please provide a copy of this.	James 2017 (point 3.2.4) TAKW submission	
		Wainuiomata Riv	<i>v</i> er
m.	More information on recreational and commercial fishing needs to be provided.	James 2016 James 2017 (Point 4.1)	
		Code of practice	e
n.	Please update the COP with the more up to date spawning periods as set out in the PNRP and provide a copy of the updated code (note other updates are also requested) or comment on why these dates have not been included.	James 2017 (Point 2.1 and 5.1)	
0.	Please update the COP to expand the inanga spawning restriction area beyond the identified spawning areas to cover the whole zone of potential spawning habitat and provide an updated COP (note other updates have also been requested) or comment on why this has not been included.	James 2017 (Point 2.1 and 5.1)	
р.	Please provide a 'general activity constraints calendar' for the Waikanae River or comment on why	James 2017 (point 3.2.2)	

	this has not been included.		
q.	Site specific effects management –	James 2015e	
	 Please address concerns about 	James 2017 (point 5.1)	
	the magnitude of disturbance and		
	sensitivity of the works site.		
	 Please include the missing states 		
	in the habitat sensitivity-ranking		
	scheme.		
	 Please provide some scenarios of 		
	river works within the water		
	bodies covered by the consent		
	applications to show how the		
	proposed scheme would work in		
	practice.		
r.	Operation and maintenance of	James 2015e	
	machinery	James 2017 (point 5.1)	
	 Please update the COP to require 		
	a spill kit on site and provide an		
	updated copy of the COP or		
	comment on why is has not been		
	included.		
	Please provide further		
	information about flood		
	protections wash bays, in		
	particular, details of whether they		
	drain to stormwater or		
	wastewater.		
s.	Formation of access from the banks to	James 2017 9point 5.1)	
	the riverbed		
	Please expand the action point		
	"avoid vegetation clearance		

	adjacent to Key Native Ecosystems" to include ecologically significant vegetation as identified in District Plans and by the Department of Conservation and provide an updated copy of the COD or comment on why this has not been included.		
t.	 Maintenance and protection of ecological values. Please address the ambiguous language in section 7.3.11 of the COP and provide an updated copy of the COP or comment on why this request has not been addressed. Please add the two additional actions in section 7.3.11 as suggested by Mr James and provide an updated copy of the COP or comment on why these actions have not been included. 	James 2015e James 2017 (point 5.1)	
u.	 Consideration of opportunities for environmental enhancement Please address the concerns raised by Mr James, specifically, that there is no clear, definitive direction or certainty around implementing environmental enhancement and 	James 2015e James 2017 (point 5.1)	

	the reliance on the person		
	responsible for supervising on-site		
	works to identify such		
	opportunities.		
v.	Channel shaping - channel diversion	James 2015e	
••	cut and bed recontouring.	James 2017 (point 5.1)	
	 Please address the additional 		
	adverse effects and mitigation		
	actions regarding stranding and		
	relocation of fish and		
	megainvertebrates.		
w.	Channel maintenance – Please	James 2015e	
	address previous comments for the	James 2017 (point 5.1)	
	removal of flood debris, mechanical		
	clearing of minor watercourses,		
	Opahu Stream and Chrystalls Lagoon		
х.	River mouth cutting – please address	James 2015e	
	previous review comments.	James 2017 (point 5.1)	
у.	Restoration management plans –	James 2017 (point 5.2.1)	
	Please consider including the	Department of	
	restoration management planning	Conservation submission	
	requirements of the pNRP in the COP		
	for each activity. Please provide an		
	updated copy of the COP or comment		
	on why this has not been included.		
Ζ.	Please add a statement of effects	James 2017 (point 5.2.2)	
	specifically relating to the hyporheic	Hutt Valley Angling Club	
	zone to the various sections of the	submission	
	COP.		
	Please include the creation of	James 2017 (point 5.2.2)	
	additional instream structures (logs	Hutt Valley Angling Club	

and boulders) to benefit invertebrates	submission	
and fish as mitigation in the COP and	500111551011	
provide an updated copy of the COP		
or comment on why this has not been		
included.		
Site specific effects management	James 2017 (point 5.3)	We think it could be worthwhile workshopping this
 Mr James suggests that the site 	Junes 2017 (point 5.5)	suggestion and other ways to make the overall framework
specific effects management could		less complex.
be replaced by a toolbox of		
remediation or migratory actions		
integrated into the COP. Please		
consider this suggestion.		
Baseline monitoring triggers and	James 2017 (point 5.3)	
responses. Mr James has raised	ч <i>,</i>	
concerns about determining a		
'statistically significant' change. Please		
address the questions raised.		
 The link on p.41 to the Waikato 	James 2017 (point 5.3)	
Regional Council document does		
not work.		
• Table 12 appears to be a duplicate		
of table 11 and there is no specific		
table for the Waikanae River.		
	Environmental Monito	pring Plan
Matters raised in previous reviews:	James 2015e	
Please address the issues raised in	James 2017 (point 6.1)	
previous reviews.		
• Please provide a copy of the refined		
NCI method referred to.		
Please include the Wainuiomata River	James 2017 (point 6.3)	
in the list of baseline monitoring sites		

in section 2.1 and fish monitoring sites		
in the Wainuiomata River in section		
2.3.4.		
Riparian vegetation	James 2017 (part 6.3)	
 Please consider and provide 		
comments on the alternative		
riparian vegetation monitoring		
proposed		
Inanga spawning habitat	James 2017 (part 6.3)	
 Please consider and provide 		
comments on the frequency of the		
inanga spawning habitat		
monitoring suggested.		
Please comment on why	James 2017 (part 6.3)	
macroinvertebrates are not included		
in the proposed monitoring		
programme?		
Habitat assessment – Appendix A of	James 2017 (part 7.2)	
EMP		
Please address the concerns raised		
regarding the habitat assessment		
outlined in Appendix A of the EMP.		
	Other	
Please provide an assessment of the	James 2017 (points 2.2.1,	We understand this is being undertaken as a separate
effects (including cumulative effects)	3.2.1)	assessment.
of the gravel extraction in the four	Department of	
rivers on the estuaries and open coast	Conservation submission	
beach system. Submitters have		
specifically noted this gap with		
respect to the Kapiti Coast but an		
assessment for all rivers needs to be		

provided.		
Environmental enhancement or	James 2017 (point 7.3)	
restoration		
 Please provide comments on the suggestion to develop activity specific mitigation methodologies for inclusion in the COP. 		
Pest plants	James 2017 (point 8.1)	
Please provide details of how flood	Department of	
protection managed pest plants in	Conservation submission	
the riparian areas they manage.		