



Workshop - Banks Peninsula Water Management Zone Committee AGENDA

Notice of Meeting:

A Workshop - Banks Peninsula Water Management Zone Committee will be held on:

Date: Time: Venue:	Tuesday 10 September 2024 6:00 pm To be held on Zoom - https://us02web.zoom.us/j/6439418430?omn=8445445 1076
Membership	
Chairperson	Gina Waibl - Community Representative
Deputy Chairperson	Trudi Bishop - Community Representative
Members	Andrea Davis - Community Representative
	George Howden - Community Representative
	Elisa Knight - Community Representative
	Ben Manson - Community Representative
	Tyrone Fields - Councillor Christchurch City Council
	Paul Dietsche - Councillor Environment Canterbury
	Amber Moke - Te Hapū o Ngāti Wheke/Rapaki
	Rik Tainui - Te Rūnanga o Ōnuku
	Jaleesa Panirau - Te Rūnanga o Wairewa
	Vacancy - Te Rūnanga o Koukourārata
	Tori Peden - Advisory Member
	20 August 2024

Principal Advisor Diane Shelander Senior Policy Analyst Tel: 941 8304 Christchurch City Council Zone Facilitator Jaimee Grant Tel: 027 220 2694 Environment Canterbury 29 August 2024

Democratic Services Advisor Natasha McDonnell Tel: 941 5112 Christchurch City Council

Please Note:

This forum has no decision-making powers and is purely for information sharing.





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WORKSHOP ITEMS

2.	Stormwater Management Plan for Settlements of Te Pātaka o Rākaihautū Banks Peninsula
	The time allocated for this briefing is 60 minutes.

Karakia Whakamutunga





Karakia Tīmatanga

Whakataka te hau ki te uru	English translation
Whakataka te hau ki te tonga	Cease the winds from the west
Kia mākinakina ki uta	Cease the winds from the south
Kia mātaratara ki tai	Let the breeze blow over the land
E hī ake ana te atakura	Let the breeze blow over the ocean
He tio, he huka, he hau hū	Let the red-tipped dawn come with a sharpened air.
Tihei mauri ora!	A touch of frost, a promise of a glorious day.

1. Apologies Ngā Whakapāha

At the close of the agenda no apologies had been received.



2. Stormwater Management Plan for Settlements of Te Pātaka o Rākaihautū Banks Peninsula

Reference Te Tohutoro:24/1500673Presenter(s) Te Kaipāhō:Paul Dickson, Drainage Engineer, Christchurch City Council

1. Detail Te Whakamahuki

Timing	This workshop is expected to last for 60 minutes	
Purpose / Origin of this WorkshopThe purpose of this report is to provide the Workshop - Banks Peninsula Water Management Zone Committee with information on the Stormwater Management for the settlements of Te Pātaka o Rākaihautū Banks Peninsula and discuss pro consultation.WorkshopKorkshop		
Confidentiality The workshop and any shared information is not confidential.		
Background	The Christchurch City Council is developing a stormwater management plan (SMP) for the settlements of Te Pātaka o Rākaihautū/Banks Peninsula. A SMP is defined by conditions in the Council's consent CRC231955 to discharge stormwater. One of the conditions (#4) is that the Consent Holder shall develop SMPs in consultation with the relevant Zone Committee, (as well as other organisations including community boards). SMPs are among several responses by the Council (including environmental strategies) toward improving a degraded environment. A SMP should demonstrate that the Council is developing targets and planning works to mitigate urban contaminants as required by the consent. The major activity is expected to be construction of treatment devices. The SMP will give effect to a programme of work for this area in the 2024-34 Long Term Plan. Flooding on the Peninsula has rural origins outside of the Council's control. The consent does not specify flooding targets for Banks Peninsula settlements and flooding is not within the scope of the SMP. Flood mitigation is not currently being considered but the SMP will summarise known flooding risks to settlements to inform the Council.	
	Contaminants and Treatment	
	There is limited environmental monitoring information from the Peninsula due to a relatively small number of monitoring sites and short records. Environmental effects appear more related to rural sediment than to urban sources. Provisionally the priority urban contaminants are copper and zinc, which are showing small guideline exceedances in stream monitoring. Measured exceedances in streams are linked to steep hills and braking zones but the cause might be metals in turbid rural water after rainfall.	





Sediment is a prior sediment discharge SMP. The majority	ity contaminant in ed into the harbour source of TSS, cop	Whakaraupō – Lyttelton Harbour bı has rural origins and is outside the per and zinc is rural runoff.	ut most scope of the
The SMP team is co settlements. Sourc are difficult to trea	onsidering means o ces include road cu t.	f reducing sediment discharges fror ttings and under-runners. However	n within r, both sources
Provisionally, urba pictured in a powe stormwater netwo Treatment is likely Bay, Diamond Hart considerably fewer Treatment is likely	n contaminants are rpoint presentation rks and hilly topogr to be targeted to th pour, Little River an contaminants, as o to target commerc	e likely to be captured in filters (whi a). Filters can be used in settlement raphy preclude the use of basins and the five largest settlements Lyttelton d Akaroa. Smaller settlements disch estimated by a contaminant load m ial centres and braking zones on bu	ch will be s where sparse d wetlands. , Governors harge odel. sier roads.
Contaminant disch SMPs frequently su and incentivising to significant uncerta Council's powers to Council on alternat	arges can potentia ggest regulating to o encourage contar inty about how to b o regulate are limite tive methods, and s	lly be addressed in various ways. So eliminate contaminant sources and ninant mitigation by others. Howev pring such controls into effect becau ed. The CSNDC requires ongoing wo such work is happening.	ubmitters to d educating ver, there is use the ork by the
Comparing Comm	on Mitigation Ont	ions – a reference	
Colours indicate of	factivanass:		
Green = likely to be	effective, yellow =	sometimes effective, red = difficult	or slow getting
effects. Mitigation Option	Contaminants Treated	Assessment as a Best Practicable	
effects. Mitigation Option First flush basins	Contaminants Treated TSS, Cu, Zn	Assessment as a Best Practicable Option Combines TSS removal with essential flow detention. Some metals removal. Traditional treatment approach.	
effects. Mitigation Option First flush basins First flush basins and wetlands	Contaminants Treated TSS, Cu, Zn TSS, Cu, Zn, hydrocarbons	Assessment as a Best Practicable OptionCombines TSS removal with essential flow detention. Some metals removal. Traditional treatment approach.Good removal of TSS, metals and other contaminants. Combines treatment with essential flow detention. Most widely used current method.	
effects. Mitigation Option First flush basins First flush basins and wetlands Methods above this li available. Methods below this li settlements.	Contaminants Treated TSS, Cu, Zn TSS, Cu, Zn, hydrocarbons ne more suitable for de ne have smaller footpri	Assessment as a Best Practicable Option Combines TSS removal with essential flow detention. Some metals removal. Traditional treatment approach. Good removal of TSS, metals and other contaminants. Combines treatment with essential flow detention. Most widely used current method. velopments where flat land is readily	
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effects. Mitigation Option First flush basins First flush basins and wetlands Methods above this li available. Methods below this li settlements. Rain Garden or biofilter Cartridge filters (e.g. Stormfilter by Stormwater 360)	Contaminants Treated TSS, Cu, Zn TSS, Cu, Zn, hydrocarbons ne more suitable for de ne have smaller footpri TSS, Cu, Zn, hydrocarbons TSS, Cu, Zn, hydrocarbons	Assessment as a Best Practicable OptionCombines TSS removal with essential flow detention. Some metals removal. Traditional treatment approach.Good removal of TSS, metals and other contaminants. Combines treatment with essential flow detention. Most widely used current method.welopments where flat land is readilynts and are more suitable for use withinGood TSS and metals removal. Appears to be a more expensive means of removing metals than basin + wetlandGood TSS removal. Appears to be a more expensive means of removing metals than basin + wetlandHigher metals removal means of removing metals than basin + wetland	

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	Catchpit filter (e.g.	TSS, some Cu & Zn,	Good removal of particles larger	
	Litta Trap)	litter, organic material	than 100 μ m (sand size). Some	
			Better suited to new or re-	
			development	
	Street sweeping	TSS, particulate Cu &	Good removal of particles larger	
		Zn	than 100 μm (sand size). Some	
	Deversions filteres		metals removal.	
	Downpipe inters (e.g. Storminator™	Zh, rooi-sourced 155	Council can require downnine	
	by University of		treatment in some cases.	
	Canterbury)		Must be voluntary.	
	Roof painting	Zn	Very good barrier to zinc discharge.	
			Council does not have powers to	
			require roof painting.	
	Low-copper brake	Cu	Potentially the most effective and	
	paus		Government support needed	
			Government support needed.	
ELT	This report has not	been considered by E	LT.	
Consideration				
constactation				
Key Issues	To be discussed in	workshop.		
	Feedback from Zone Committee.			
Next Steps				
	N/A			
Useful Links				

Attachments Ngā Tāpirihanga

There are no attachments to this coversheet.

Signatories Ngā Kaiwaitohu

Author	Natasha McDonnell - Democratic Services Advisor	
Approved By	Natasha McDonnell - Democratic Services Advisor	





Karakia Whakamutunga Karakia Whakamutunga

Unuhia, unuhia	English translation
Unuhia ki te uru tapu nui	Draw on, draw on,
Kia wātea, kia māmā te ngākau,	Draw on the supreme sacredness
te tīnana,	To clear, to free the heart, the body
te wairua i te ara tangata	and the spirit of mankind
Koia rā e Rongo, whakairia ake ki	Rongo, suspended high above us (in 'heaven')
runga	Draw together! Affirm!
Kia tina! TINA! Hui ē! TĀIKI Ē!	

Karakia mō te kai for food

Nau mai e ngā hua	English translation
O te wao	Welcome the gifts of food
O te ngakina	From the sacred forests
O te wai tai	From the cultivated gardens
O te wai Māori	From the sea
Nā Tāne	From the fresh water
Nā Rongo	The food of Tāne
Nā Tangaroa	Of Rongo
Nā Maru	Of Tangaroa
Ko Ranginui e tū iho nei	Of Maru
Ko Papatūānuku e takoto nei	I acknowledge Ranginui above me
Tūturu whakamaua ki a tina	Papatūānuku who lies beneath me
Tina, haumi ē, hui ē	Let this be my commitment to all
Tāiki ē	Draw together
	Affirm!
E Rongo, e Rongo	Rongo, Rongo
Hōmai ngā tipu	Give us the foods, with which to fill the
Hei whakakī i te tīnana	body, and have health
Hei oranga	That I may ascend
Au eke, au eke	Affirm!
Hui ē, tāiki ē!	