



greater WELLINGTON
REGIONAL COUNCIL
Te Pane Matua Taiao

If calling please ask for: Democratic Services

30 October 2017

Hutt Valley Flood Management Subcommittee

Order Paper for meeting to be held in the Council Chamber, Hutt City Council, 30 Laings Road, Lower Hutt on:

Thursday, 2 November 2017 at 4.30pm

Membership of the Subcommittee

Wellington Regional Council

Cr Lamason (Chair)	Cr Laban (Deputy)	Cr Kedgley
Cr Laidlaw	Cr Ogden	Cr Swain

Hutt City Council

Mayor Wallace	Deputy Mayor Bassett	Cr Milne
---------------	----------------------	----------

Upper Hutt City Council

Mayor Guppy	Cr Swales	Cr Taylor
-------------	-----------	-----------

Kara Puketapu-Dentice

Recommendations in reports are not to be construed as Council policy until adopted by Council

Hutt Valley Flood Management Subcommittee

Order Paper for meeting to be held on Thursday, 2 November 2017 in the Council Chamber, Hutt City Council, 30 Laings Road, Lower Hutt at 4.30pm

Public Business

		Page No
1. Apologies		
2. Declarations of conflict of interest		
3. Public participation		
4. Confirmation of the minutes of 3 October 2017	Report 17.381	3

General

5. Waiwhetu Aquifer Contamination	Oral	
6. Annual Flood Protection Asset Condition Report – Hutt Valley and Wainuiomata Catchments	Report 17.434	6
7. Te Awa Kairangi/Hutt River Environmental Strategy Action Plan	Report 17.401	13
8. Hutt Valley Flood Management Project Manager’s Report	Report 17.403	20

RiverLink

9. Project Manager Report	Report 17.402	24
---	----------------------	-----------



greater WELLINGTON
REGIONAL COUNCIL
Te Pane Matua Taiao

Please note that these minutes remain unconfirmed until the Hutt Valley Flood Management Subcommittee meeting on 2 November 2017

Report 17.381

02/10/2017

File: CCAB-14-345

Minutes of the Hutt Valley Flood Management Subcommittee meeting held in the Council Chamber, Hutt City Council, 30 Laings Road, Lower Hutt on Wednesday, 3 October 2017, at 4:33 pm

Present

Councillors Lamason (Chairperson), Laban (Deputy Chair), Kedgley (from 4:36pm), Ogden, and Swain (Greater Wellington Regional Council), Mayor Wallace and Councillor Milne (absent 4:37pm - 4:39pm) (Hutt City Council), Mayor Guppy (from 4:34pm) and Councillor Swales (Upper Hutt City Council).

Kara Puketapu-Dentice.

Public Business

1 Apologies

Moved

(Mayor Wallace/Cr Ogden)

That the Subcommittee accepts the apologies for absence from Deputy Mayor Bassett, and Councillors Laidlaw and Taylor, and the apology for lateness from Mayor Guppy.

The motion was **CARRIED**.

2 **Declarations of conflict of interest**

There were no declarations of conflict of interest.

3 **Public Participation**

There was no public participation.

4 **Confirmation of the minutes of 22 June 2017**

Moved

(Cr Swales/Cr Ogden)

That the Subcommittee confirms the minutes of 16 August 2017, Report 17.296.

The motion was **CARRIED**.

Mayor Guppy and Councillor Kedgley arrived during consideration of item 4.

RiverLink

5 **Project Managers' report**

Alistair Allan, Team Leader, Floodplain Management Plan Implementation, spoke to the report.

The meeting lapsed at 4.37pm due to lack of quorum and reconvened at 4:39pm when quorate again.

Report 17.369

File: CCAB-14-340

Moved

(Mayor Wallace/Cr Laban)

That the Subcommittee:

- 1. Receives the report.*
- 2. Notes the content of the report.*

The motion was **CARRIED**.

General

6 **Pinehaven Stream Floodplain Management Plan Update**

Alistair Allan, Team Leader, Floodplain Management Plan Implementation, spoke to the report and introduced Tristan Reynard, Project Manager, Wellington Water, to the Subcommittee.

Report 17.368

File: CCAB-14-339

Moved

(Mayor Guppy/Cr Laban)

That the Subcommittee:

- 1. Receives the report.*
- 2. Notes the content of the report.*

The motion was **CARRIED**.

7 **Hutt Valley Environmental Strategy Action Plan Update**

Alistair Allan, Team Leader, Floodplain Management Plan Implementation, spoke to the report.

The draft Te Awa Kairangi/Hutt River Environmental Strategy: Action Plan was tabled.

Report 17.315

File: CCAB-14-336

Moved

(Cr Swain/Cr Swales)

That the Subcommittee:

1. *Receives the report.*
2. *Notes the content of the report.*

The motion was **CARRIED**.

8 **Hutt Valley Flood Management Project Manager's Report**

Alistair Allan, Team Leader, Floodplain Management Plan Implementation, spoke to the report.

It was noted that Alistair Cross, Manager, Environment Regulation, was unable to attend this meeting to discuss the Waiwhetu aquifer extraction and recent contamination issues. Accordingly, he will attend the next meeting.

Report 17.370

File: CCAB-14-341

Moved

(Cr Swales/Mayor Wallace)

That the Subcommittee:

1. *Receives the report.*
2. *Notes the content of the report.*

The motion was **CARRIED**.

The meeting closed at 5:08pm.

Cr P Lamason
(Chair)

Date:



Report 2017.434
Date 26 October 2017
File CCAB-14-353

Committee Hutt Valley Flood Management Subcommittee
Author Colin Munn, Team Leader, Operations Delivery and Planning

Annual Flood Protection Asset Condition Report – Hutt Valley and Wainuiomata Catchments

1. Purpose

To advise the Hutt Valley Flood Management Subcommittee (the Subcommittee) of progress made with the Flood Protection department’s asset management system, the overall physical condition of the flood protection infrastructural assets within the Hutt and Wainuiomata Catchments.

To seek confirmation from the Subcommittee that they are satisfied that our infrastructural assets have been maintained to their agreed service level.

2. Background

The Flood Protection department is responsible for a variety of assets, including infrastructure, land and property, located on 15 river schemes¹ across the region. These assets have a total combined value of \$386.3 million² and provide flood protection to the communities located on these floodplains and infrastructure supporting the whole region.

The Department has established a comprehensive asset management system, which demonstrates that the service level of our infrastructural assets is:

- Being maintained in an efficient and cost-effective manner;
- Will perform as designed; and
- Where required, are being enhanced.

The Environment Committee has responsibility to monitor the maintenance and improvement of these assets for the Region’s river schemes, corridors and

¹ Flood Protection also manages 14 drainage schemes; these were not included in the revaluation as the schemes assets are owned by the landowners and not Greater Wellington Regional Council.

² As at June 2017

associated watercourses on behalf of the Council. The Environment Committee relies on feedback from the various Subcommittees, Scheme Advisory committees and Friends Groups to confirm flood protection assets are being satisfactorily maintained to the agreed service level.

3. Asset Condition

Asset condition is a measure of the physical state of the asset and is assessed visually by staff on an annual basis. Consistency between assessors is achieved through the application of guidance documents. Asset condition does not identify the criticality of the asset or whether the asset meets a service level or design standard; this is determined through other measures.

Condition information enables us to predict maintenance, renewal requirements and develop effective, proactive work programmes. Asset condition is critical to managing asset risk, because it is linked to the likelihood that the asset will physically fail.

3.1 Hutt Valley and Wainuiomata Summary

In general, asset condition is not declining and the number of assets that are in very good (1) to moderate (3) condition has remained high from year to year as shown in **Figure 1** below.

Figure 1: Comparison of asset condition by year

Hutt Valley and Wainuiomata Rivers	2016	2017
Moderate –Very Good (1-3)	83%	93%
Poor to Very Poor (4-5)	17%	7%
Total Asset Count	2115	2111

To give the Committee a sense of our asset profile and condition, a breakdown of asset condition by asset grouping and type is shown in **Figure 2** below.

Figure 2: Hutt Valley and Wainuiomata Asset condition by type

Asset Group	Asset Type	1 - Very Good	2 - Good	3 - Moderate	4 - Poor	5 - Very Poor	Total
Individual Structure	BRIDGE		1				1
	DRAIN	16	46	11			73
	FLOODWAY SILL		6				6
	Total	16	53	11			80
Critical Assets	CULVERT	2	14	3			19
	FLOODGATE	11	7				18
	FLOODWALL	20	1	1			22
	STOPBANK	140	74	36	5		255
	TRAINING BANK	5	5	2			12
	WINGWALL	3	1				4
	Total	181	102	42	5		330
Channel Assets	CHANNEL	166	213	32	5		416
	WEIR		1				1
	Total	166	214	32	5		417
Berms - Amenity	FENCE	1					1
	NATIVE PLANTING	8	37	25	4	1	75
	SEAT	3	8				11
	TRACK	155	146	24	15	1	341
	Total	167	191	49	19	2	428
Bank Edge Vegetative	DEBRIS ARRESTOR	3	2	1	1	1	8
	DEBRIS FENCE		87	102	18	5	212
	WILLOW	11	67	150	67	9	304
	Total	14	156	253	86	15	524
Bank Edge Structural	BLOCKLINE	5	4	6	2		17
	DEMOLITION LINE		2	6	3		11
	FENCE RAIL IRON NET		11	7	2		20
	GROYNE	11	80	19		3	113
	RIPRAP	28	126	17			171
	Total	44	223	55	7	3	332
Total		588	939	442	122	20	2111

3.2 Critical Assets

Critical assets are those that provide an essential flood protection function. Failure of a critical asset such as a stopbank, training bank or floodwall or culverts and floodgates through these structures would be considered to be a system failure.

Within the Hutt Valley and Wainuiomata Catchments, only 5 of the 330 critical assets were rated the ‘poor’ category. All of these were sections of stopbank located in Upper Hutt with trees growing in them.

The Department has had an ongoing program working with affected parties to remove trees and woody vegetation from stopbanks. Significant damage can be caused by tree roots affecting the integrity of the structure. When the trees die, the roots rot and this can lead to piping failures. In addition, trees can fall over during large wind events, exposing the banks to additional erosion risk during flood events.

Two examples of stopbanks rated as poor are shown in the **Figure 3** below. One is located in the Royal Wellington Golf Club and the other is at Awa Kairangi Park. We will continue to work with landowners and agencies to remove the offending trees. However these five assets are not considered to be urgent, as the likelihood and consequence of a failure is very low.

Figure 3 Trees growing in Te Awa Kairangi/Hutt River stopbanks



3.3 Other Assets

Other asset types showing lower ratings include bank edge protection works, debris fences, vegetative plantings and amenity assets. Many of these areas have been damaged by recent flood events and repairs are ongoing. During the year approximately 1500 tonnes of rock riprap has been purchased to complete repairs to rock structures. Bank edge repairs using willows is actively underway at present particularly in the Avalon and Belmont reaches of Te Awa Kairangi/Hutt River.

Amenity assets have also been added to the asset register in recent years. Assets such as trails and native planting areas are also vulnerable to flood damage and to vandalism.

4. Flood Damage Reserves

Maintenance budgets, together with the scheme flood damage reserves, are sufficient to ensure that flood protection assets can continue to be maintained to the required service level. A summary of river flood damage scheme reserves is detailed in **Figure 4** below. While minor damage was incurred during recent flood events, these repairs were funded from maintenance budgets without calling on contingency funds.

Figure 4: Scheme reserves to June 2017

Scheme	June 2017		
	Scheme Reserve	Major Flood Investment Reserves	Total Reserves
Eastern Rivers Total	3,424,923	1,484,459	4,909,383
Western Rivers Total	2,758,824	1,484,459	4,243,283
Sub Total of River Schemes Reserves	6,183,747	2,968,918	9,152,666
GW Flood Contingency Reserve	2,247,333		2,247,333
GW Major Flood Investment		2,968,918	2,968,918
Total Reserves of River Schemes (\$)	8,431,081	5,937,836	14,368,917

5. Satisfactory maintenance of our assets

The Subcommittee can be confident that the flood protection assets are being maintained to deliver their required level of service. This is demonstrated by:

- The annual condition assessment process, which shows that the majority of our assets are in very good to moderate condition and have been maintained or improved over the year
- Sufficient financial provision has been made available through the maintenance budgets and scheme flood damage reserves to ensure completion of the maintenance programmes.

6. Consideration of Climate Change

The matters requiring decision in this report have been considered by officers in accordance with the process set out in the GWRC Climate Change Consideration Guide.

6.1 Mitigation assessment

Mitigation assessments are concerned with the effect of the matter on the climate (i.e. the greenhouse gas emissions generated or removed from the atmosphere as a consequence of the matter) and the actions taken to reduce, neutralise or enhance that effect.

The effect of any further works associated with the assets discussed in this report, and commissioned by GWRC, are subject to GWRC's corporate sustainability policy and/or procurement process, the latter of which is

undergoing review and will encourage suppliers and contractors to minimise emissions.

6.2 Adaptation assessment

Adaptation assessments relate to the impacts of climate change (e.g. sea level rise or an increase in extreme weather events), and the actions taken to address or avoid those impacts.

Officers have considered the impacts of climate change in relation to the matter. The assets discussed in this report were developed over an extensive period of time, during which climate change projections (e.g. rainfall intensity, sea level rise etc.) have evolved with the scientific community's understanding of how climate change will affect the Wellington Region. Climate change projections were incorporated into the modelling that underpins relevant management plans and asset designs at the time they were developed.

7. The decision making process and significance

The matters requiring decision in this report have been considered by officers against the requirements of Part 6 of the Local Government Act 2002.

7.1 Significance of the decision

Officers have considered the significance of the matter, taking into account the Council's significance and engagement policy and decision-making guidelines. Due to the procedural nature of this decision officers recommend that the matter be considered to have low significance.

Officers do not consider that a formal record outlining consideration of the decision-making process is required in this instance

7.2 Engagement

Engagement on the matters contained in this report aligns with the level of significance assessed. In accordance with the significance and engagement policy, no engagement on the matters for decision is required.

8. Recommendations

That the Subcommittee:

- 1. Receives the report.*
- 2. Notes the content of the report.*
- 3. Confirms that the assets on the Te Awa Kairangi/Hutt River, Waiwhetu and Wainuiomata Rivers have been maintained to the satisfaction of the Subcommittee.*

Report prepared by:

Colin Munn
Team Leader, Operations,
Delivery and Planning

Report approved by:

Graeme Campbell
Manager, Flood Protection

Report approved by:

Wayne O'Donnell
General Manager, Catchment
Management



Report 2017.401
Date 16 October 2017
File CCAB-14-347

Committee Hutt Valley Flood Management Subcommittee
Author Amanda Death, Environmental Planner

Te Awa Kairangi/Hutt River Environmental Strategy Action Plan

1. Purpose

To seek endorsement from the Subcommittee for the release of the Te Awa Kairangi/Hutt River Environmental Strategy Action Plan for public consultation.

2. Background

In November 2015 the Subcommittee approved a review of the Hutt River Environmental Strategy 2001. The purpose of the review is to assess and update the strategic vision for the management of the river environment and its margins between the river mouth and Kaitoke Regional Park. The review identifies issues and objectives, makes recommendations and proposals, and provides guidance on management priorities.

3. Strategy Overview

3.1 Document structure and content

The Te Awa Kairangi/Hutt River Environmental Strategy Action Plan has been produced as an A3 hard copy document. The sizing of the document has been guided by the clarity of mapped information for the reaches. The aim is for the final document to also be created as an online interactive digital copy available through the GWRC website. The structure of the document is set out as follows:

3.1.1 Introduction & background

This section provides a brief overview of the background, purpose, and limitations of the review. A short description of the review process is also provided in this section, along with an overview of relevant documents that link with the strategy.

3.1.2 Issues & resource requirements

Key issues identified from Phase 1 (intercept survey) of the review are outlined within this section. Recommendations of new functions and resources are also proposed within this section. These recommendations are:

- Someone to 'own' the strategy – a coordinator for the actions within the document. This coordinator would champion funding, prepare budgets, coordinate inputs from GWRC departments, coordinate the involvement of Upper Hutt City Council and Hutt City Council officers, coordinate the involvement of residents and environmental groups, as well as monitor progress and expenditure on action
- Additional Hutt River Ranger resources
- The ability to access ecological knowledge to provide timely and consistent input into flood protection and river management.

3.1.3 Vision, goals & objectives

- The vision from the 2001 Action Plan has been revised, and the new revised vision has been incorporated into the document.
- Delivery of flood security outcomes is included in the Floodplain Management Plan, the parent document to the environmental strategy. It has therefore not been included as a separate goal within this document.
- Three key goals have been outlined in the document, each with their own set of objectives, outlined underneath. The objectives have been teased out to include background information and issues. The three goals are:
 1. *Natural Environment* – Protect and enhance the biodiversity and habitat of the river corridor (i.e. the river, its margins and tributaries)
 2. *Community* – Encourage and enable improved connections between the river corridor and adjoining communities to enrich community engagement and understanding of the river, its open space value and its management
 3. *Recreation* – Provide a variety of destinations, spaces and facilities to support an appropriate range of recreational opportunities throughout the river corridor.

3.1.4 Generic river-wide actions

Section four outlines generic actions that apply to the entire river corridor. The actions are broken down by each goal and are then tabulated under each objective relating to that goal. An explanation for each action is also included in the table.

3.1.5 Reach specific actions.

Reach specific actions are included in the document and are based on 8 reaches along Te Awa Kairangi/Hutt River distinguished between the different bridges. These specific actions are outlined in section five of the document.

For each reach, the following is included:

- A description of the current situation, including information about the river, its banks and berms, and the issues and opportunities.
- A tabulated list of specific actions, each with their own explanation
- An assigned priority to each action. This has been spilt into Short Term (1-5 years); Medium Term (5-10 years); Long Term (10+ years); Aspirational (future ideas); and Ongoing (continues on an ongoing basis). This is used to guide structure for LTP funding allocation.
- Funding and delivery responsibility for the action identified
- An annotated aerial photograph which includes the action numbers linked to the actions within the table.

3.2 Next steps

A presentation summarising the plan and the proposed future consultation process will be given at the Subcommittee meeting on 2 November 2017.

It is proposed that the draft Te Awa Kairangi/Hutt River Environmental Strategy Action Plan will be prepared to go out for public consultation between January 2018 and March 2018.

Feedback from this consultation will be collated and where appropriate amendments made to the plan. The plan is proposed to be recommended to the Subcommittee for endorsement in April 2018.

4. Proposed Consultation Outline Plan

4.1 Consultation Objectives

- Reconnect with the community about their aspirations for Te Awa Kairangi/Hutt River corridor
- Show how their ideas have been included in the strategy
- Gauge community support for the strategy
- Highlight the benefits of the updated strategy
- Enthuse the community about delivering the outcomes of the strategy and how they can be a part of it
- Seek further comments and feedback from stakeholders and the general public.

4.2 Target Audience & Engagement Method

Target Audience	Engagement Method
<p>General Public</p> <p>Corridor Users – Recreation, sports, casual leisure, cultural pursuits</p>	<ul style="list-style-type: none"> • Have your say website • Attendance at public events associated with the Hutt River. This will include attendance at the ‘Riverlink Festival of Rock’ scheduled for 11 Feb 2018 • Media release, Facebook Posts, Neighbourly promotions • Workshops with community members and stakeholders. One workshop to be held in Upper Hutt and one to be held in Hutt City • Additional targeted workshop will be held with the Taita community at the Walter Nash Centre. This will be focused around the Taita Park Concept Plan, but will be linked to consultation on the strategy.
<p>Iwi partners</p>	<ul style="list-style-type: none"> • Have your say website • Workshop
<p>Stakeholders</p> <ul style="list-style-type: none"> - Service Clubs - Residential Associations - Fish & Game - DOC - Utilities & Businesses - Environmental Groups 	<ul style="list-style-type: none"> • Have your say website • Media release, Facebook Posts, Neighbourly promotions • Workshops with community members and stakeholders. One workshop to be held in Upper Hutt and one to be held in Hutt City • Attendance at stakeholders’ regular meetings will also be looked at to have a more targeted approach to each stakeholder.
<p>Council Officers</p>	<ul style="list-style-type: none"> • Have your say website • Workshops have already occurred with council officers.
<p>Hutt Valley Flood Management Subcommittee</p>	<ul style="list-style-type: none"> • Have your say website • Summary of feedback from consultation process to be presented to the committee in March/April 2018.

4.3 Key Consultation Milestones

Activity	Comment	When
HVFM Subcommittee meeting - endorsement	Endorsement of the draft plan	2 November 2017
Community/Stakeholder workshops, social media posts, media releases	To enable consultation and discussions to occur	6 November 2017 – 1 March 2018
Have your say website available	To enable detailed feedback and feedback from those unable to attend workshops	6 November 2017 – 1 March 2018
Consolidate feedback	Review feedback from public sources, incorporate into strategy as required	1 March 2018
Presentation of final to HVFM Subcommittee	Final to be presented at HVFM Subcommittee meeting	March/April 2018
Publication of final document	Final printing and publication	April 2018

5. Consultation

5.1 Consultation to date

Consultation during Phase 1 included four stakeholder and community workshops in June/July 2016. As part of this phase, numerous interviews were also conducted with various officers from GWRC, UHCC, and HCC during July to September 2016.

Phase 2 consultation includes further workshops with individual officers from GWRC, UHCC, and HCC. Following the individual sessions, two workshops were run at the beginning of August to update stakeholders from GWRC, UHCC, and HCC on the latest draft Action Plan. Participants were then invited to provide feedback and comments on the document in its current state.

5.2 Consultation with Iwi partners

Iwi partners have been involved in the discussion during Phase 1 of the review. For Phase 2, a review of the draft HRESAP document has been carried out by Ngati Toa Rangatira, and feedback from this review has been incorporated into the current draft document. Further consultation on the final draft document is in the process of being organised and will consist of further workshops with iwi representatives.

5.3 Future communications

The next phase will be to proceed to consultation with the public for their comments and feedback on the draft document. The proposed consultation plan is outlined above.

6. Consideration of Climate Change

The matter requiring a decision in this report has been considered by officers in accordance with the process set out in the GWRC Climate Change Consideration Guide.

Because this is a procedural step seeking endorsement for the release of the Action Plan for public consultation, there is no need to conduct a climate change assessment at this stage.

As the final plan is implemented, actions that are the responsibility of GWRC will be subject to GWRC's corporate sustainability programme and procurement process. These procedures (the latter of which is undergoing review in late 2017) encourage stakeholders, suppliers and contractors to minimise emissions and to plan for changing climatic conditions.

7. The decision-making process and significance

The matters requiring decision in this report have been considered by officers against the requirements of Part 6 of the Local Government Act 2002 (the Act). Part 6 sets out the obligations of local authorities in relation to the making of decisions.

7.1 Significance of the decision

Part 6 requires GWRC to consider the significance of the decision. The term 'significance' has a statutory definition set out in the Act.

Officers have considered the significance of the matter, taking the Council's significance and engagement policy and decision-making guidelines into account.

This report marks the beginning a decision-making process that may lead to the Subcommittee making a decision of medium significance within the meaning of the Local Government Act 2002.

7.2 Engagement

In accordance with the significance and engagement policy, officers have determined that the appropriate level of engagement is consultation.

Consultation via survey feedback and involving the community at workshops held has occurred in previous phases of the revision of the Te Awa Kairangi/Hutt River Environmental Strategy Action Plan.

Engagement will be carried out according to the consultation plan outlined in section four of this report.

8. Recommendations

That the Subcommittee

1. *Receives the report.*
2. *Notes the content of the report.*
3. *Endorses the release of the Te Awa Kairangi/Hutt River Environmental Strategy Action Plan for public consultation.*

Report prepared by:	Report approved by:	Report approved by:	Report approved by:
Amanda Death Environmental Planner	Alistair J N Allan Team Leader, Floodplain Management Plan Implementation	Graeme Campbell Manager, Flood Protection	Wayne O'Donnell General Manager, Catchment Management



Report **2017.403**
Date 13 October 2017
File CCAB-14-349

Committee **Hutt Valley Flood Management Subcommittee**
Author **Alistair J N Allan, Senior Projects Engineer**

Hutt Valley Flood Management Project Manager's Report

1. Purpose

To update the Subcommittee on progress made with general Hutt Valley Flood Management (HVFM) projects.

2. Background

Greater Wellington Regional Council (GWRC) has ongoing projects within the Hutt Valley and its wider catchment. Major projects are further detailed in separate reports. This report tracks and reports on progress of all projects and provides references to major project reports.

3. RiverLink

The Subcommittee will participate in a further workshop that has been rescheduled to follow the December meeting this year. This workshop will continue to refine the preliminary design, costs and assist further development of an outline programme for the project. More detail is provided in report 2017.402 of this Order Paper.

4. Pinehaven Stream Floodplain Management Plan

4.1 Stream Flood Capacity Improvements

Wellington Water is project manager for delivery of the Pinehaven Stream Flood Capacity improvements. Jacobs Limited is the design consultancy completing technical design components. Preliminary design and modelling has been completed and an engagement plan has been developed to re-engage with properties adjacent to the areas of work, and to inform and update the wider Pinehaven and Silverstream communities.

A summary of the engagement approach will be presented at the meeting by Wellington Water.

4.2 Plan Change 42

The further submission period for Plan Change 42 – Mangaroa and Pinehaven Flood Hazard Extents closed on 8 June 2017. Hearings were held in the last week of September 2017. Officers have completed their reply to questions raised by the commissioner, and the plan change is currently under consideration by the commissioner.

5. Hutt River Environmental Strategy Review

Officers will seek at this meeting endorsement to proceed to consultation for the draft Hutt River Environmental Strategy Action Plan. A copy of the draft was provided to the subcommittee at its last meeting, and a summary is included in Report 2017.401

6. Port Road Erosion Protection

6.1 South of Waiwhetu Mouth HCC

Hutt City Council (HCC) has prepared and proposed a design to address erosion issues affecting Port Road. This design will deliver short term, estimated 10 year life, protection for Port Road. GWRC is currently reviewing this design and will support HCC to achieve their designed level of service protection.

6.2 North of Waiwhetu Mouth GWRC

GWRC worked with HCC's consultants to develop the design for the erosion protection along Port Road. GWRC are now considering the design requirements of the area north of the Waiwhetu mouth.

7. Belmont 'Dog Club' Erosion Repairs

7.1 Erosion Repairs

Small flood events at the start of the calendar year caused some minor damage to the recently completed rock line and groyne installed at Belmont Dog Club. The design of this rock line and groyne is being modified as part of the repair work to strengthen it against similar future damage. This work will make use additional rock purchased for this project that was being held for maintenance.

7.2 Planting Plan

The planting works for this area have been completed and create a link from the river trail to the river bank and leave opportunity to connect across to Avalon Park at a future date. This planting plan will be implemented once the erosion repair work has been completed.

8. Belmont Right Bank Erosion Repairs

8.1 Interim works

GWRC's flood protection operations team are addressing the immediate erosion risk at this location and will put in place erosion protection work that will comply with current resource consent conditions. This work will provide protection to the river trail and SH2 until the RiverLink design has been confirmed by the subcommittee and achieved the necessary statutory approvals required to implement RiverLink.

8.2 RiverLink Works in this area

The works proposed by RiverLink in this area widen the river and lower the river berm in this location. The current consents held by GWRC do not allow for the implementation of these works earlier than the RiverLink forecast programme due to the change in management approach being developed for RiverLink.

The consent process will seek to allow the implementation of the RiverLink design works to be completed earlier than programmed if required to address a repeat of the erosion issue occurring at this location.

9. Consideration of Climate Change

The matters addressed in this report have been considered by officers in accordance with the process set out in the GWRC Climate Change Consideration Guide.

9.1 Mitigation assessment

Mitigation assessments are concerned with the effect of the matter on the climate (i.e. the greenhouse gas emissions generated or removed from the atmosphere as a consequence of the matter) and the actions taken to reduce, neutralise or enhance that effect.

Hutt Valley Flood Management projects are subject to GWRC's initiatives designed to minimise greenhouse gas emissions and enhance sequestration capacity where possible. These include the proposed Code of Practice (which guides all river management activities undertaken by GWRC for the purposes of flood and erosion protection across the Wellington Region), the GWRC corporate sustainability programme and GWRC's procurement process which is undergoing review in 2017 and will encourage suppliers and contractors to minimise emissions.

9.2 Adaptation assessment

Adaptation assessments relate to the impacts of climate change (e.g. sea level rise or an increase in extreme weather events), and the actions taken to address or avoid those impacts.

GWRC plans for climate change in assessing the degree of future flood hazard and in determining an appropriate response. In general GWRC applies the following allowances for climate change predicted to occur over the next 100 years in the design criteria for flood hazard investigations:

- Increases in rainfall intensity – 20%
- Sea level rise – 0.8m

10. The decision-making process and significance

No decision is being sought in this report.

10.1 Engagement

Engagement on this matter is unnecessary.

11. Recommendations

That the Subcommittee:

1. *Receives the report.*
2. *Notes the content of the report.*

Report prepared by:

Alistair J N Allan
Team Leader, Floodplain
Management Plan
Implementation

Report approved by:

Graeme Campbell
Manager, Flood Protection

Report approved by:

Wayne O'Donnell
General Manager, Catchment
Management



Report 2017.402
Date 13 October 2017
File CCAB-14-348

Committee Hutt Valley Flood Management Subcommittee
Author Alistair J N Allan, Senior Projects Engineer

RiverLink Project Manager Report

1. Purpose

To update the Subcommittee on progress made with the RiverLink Project (formerly named the Hutt River City Centre Upgrade Project - HRCCUP).

2. Background

RiverLink extends from Kennedy Good Bridge to Ewen Bridge, and aims to provide better flood protection, transport and lifestyle for central Hutt. The Project, now in the Preliminary Design phase, is progressing well and has completed technical aspects of the Preliminary Design.

Officers aim to seek Subcommittee recommendations to proceed to the next phase in early 2018, following extensive Subcommittee workshop sessions scheduled to be held in the second half of 2017. The next phase of the project will be to prepare design plans and applications for statutory approvals to carry out the physical work. The preliminary design phase addresses issues raised by stakeholders, landowners adjacent to the project area and wider community, and keeps them informed of progress.

3. Financial summary

	Spent \$M	Current Budget \$M	Comment
Flood Protection Works	\$1.6	\$35	Preliminary design and trial expenditure only, project implementation has not commenced. Project cost estimate being refined by this phase.
GWRC property requirements	\$20.7	\$43 (net figure Dec 2015)	Purchased 23 In negotiation 43 <u>Sub Total 65</u> <u>Total Required 118</u>

			Budget estimate is being revised through GWRC LTP process.
Melling Intersection Investigations	TBC	TBC \$28	NZTA indicative business case completed, June 2017. The Transport Agency's investigations have confirmed that the Melling Station will need to move in order to provide space for improvements to the intersection. Estimate for Melling Bridge component of intersection included in original cost estimate figures.
Making Places	\$0	\$32	Total cost estimate being refined by this phase
HCC property	\$0	\$7	
Total	\$22.3	\$143	

4. Subcommittee design workshops

A workshop is programmed with the Subcommittee for 5 December 2017 to review the preliminary design and costs and refine the outline programme for the project.

5. Community engagement update

5.1 Highlight Hutt City Festival of Lights

The Highlight, Hutt City’s festival of lights was held over Labour weekend. An estimated 30,000 people attended the event, and in excess of 1,000 people are estimated to have visited to view the information about RiverLink that was on display at the event.

The RiverLink – Down to the River light installation, designed by Victoria University Landscape Architecture Students was complimented by the community who attended the event, and acted as a draw card for the RiverLink project information on display.

5.2 RiverLink Information Container (popup place) Locations

- 30 Oct – 10 Nov Belmont School
- 10 Nov - 24 Nov Melling Train Station
- Summer Popup Beach

5.3 Melling Train Station survey

NZTA are currently conducting a survey which is available on www.riverlink.co.nz, to establish which railway station amenities are most important to improve for commuters using the Melling train station. The survey is open between September 25 and November 24.

5.4 Newsletters

Newsletter No.7 was sent out on 26 September 2017 with the theme of transport links.

Newsletter No.8 will be timed for this summer, and its theme will be the environment and western side of the river, providing details from the Belmont School activities with the trial wetland, and the Melling Train Station survey.

6. Trial wetland update

A wetland trial design is being developed for a site adjacent to Belmont School on the State Highway 2 side of the river. An engagement programme has been developed with Belmont School and is on programme to commence in October.

The wetland is currently planned for construction and planting in winter 2018.

7. Consideration of climate change

The matters addressed in this report have been considered by officers in accordance with the process set out in the GWRC Climate Change Consideration Guide.

7.1 Mitigation assessment

Mitigation assessments are concerned with the effect of the matter on the climate (i.e. the greenhouse gas emissions generated or removed from the atmosphere as a consequence of the matter) and the actions taken to reduce, neutralise or enhance that effect.

The GWRC components of the RiverLink project are subject to GWRC's initiatives designed to minimise greenhouse gas emissions and enhance sequestration capacity. We will work with our project partners to develop a joint procurement approach that supports GWRC's mitigation objectives once we have entered that stage of the design process. The current basis that will be referred to for this includes the proposed Code of Practice (which guides all river management activities undertaken by GWRC for the purposes of flood and erosion protection across the Wellington Region), the GWRC corporate sustainability programme and GWRC's procurement process which is undergoing review in 2017 and will encourage suppliers and contractors to minimise emissions.

7.2 Adaptation assessment

Adaptation assessments relate to the impacts of climate change (e.g. sea level rise or an increase in extreme weather events), and the actions taken to address or avoid those impacts.

The design development for RiverLink acknowledges the need to adapt to a changing climate and aims to address these predicted impacts. GWRC has included allowances for climate change impacts and these are being finalised for the purposes of completing RiverLink preliminary design.

8. The decision-making process and significance

No decision is being sought in this report.

8.1 Engagement

Engagement on this matter is unnecessary.

9. Recommendations

That the Subcommittee:

- 1. Receives the report.*
- 2. Notes the content of the report.*

Report prepared by:

Rebecca Polvere
Project Manager, RiverLink

Report approved by:

Alistair J N Allan
Team Leader, FMP
Implementation, GWRC

Report approved by:

Graeme Campbell
Manager, Flood Protection,
GWRC

Report approved by:

Wayne O'Donnell
General Manager, Catchment
Management, GWRC