

21 August 2014

PORIRUA HARBOUR AND CATCHMENT JOINT COMMITTEE

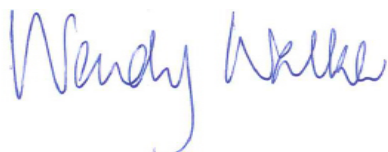
*Notice is hereby given that, commencing at **9.00AM** on **TUESDAY 26 AUGUST 2014** a meeting of the PORIRUA HARBOUR CATCHMENT JOINT COMMITTEE will be held in the COUNCIL CHAMBER, ADMINISTRATION BUILDING, HAGLEY STREET, PORIRUA CITY, to conduct the business set out as under.*

PURPOSE

The purpose of the Porirua Harbour and Catchment Joint Committee (Harbour Committee) is to oversee the development, monitoring, review and implementation of the Porirua Harbour and Catchment Strategy (Harbour Strategy).

MEMBERSHIP

Cr B E Kropp (Chairperson)
Cr A K Baker (*Porirua City Council*)
Taku Parai (*Te Runanga o Toa Rangatira*)
Cr M Sparrow (*Wellington City Council*)
Cr B Donaldson (*Greater Wellington*)



Wendy Walker
ACTING CHIEF EXECUTIVE



Specific Responsibilities

The Porirua Harbour and Catchment Joint Committee shall have responsibility for:

1. Porirua Harbour and Catchment Strategy- monitoring and review: Overseeing the monitoring and review of the Porirua Harbour and Catchment Strategy and its supporting Action Plan programme.
2. Monitoring and reporting to Porirua City, Wellington City and Greater Wellington Regional Council on:
 - a. Progress toward achieving outcomes specified within the Harbour Strategy;
 - b. Implementation, delivery and effectiveness of agreed programmes and initiatives;
 - c. Effectiveness and efficiency of interagency coordination in developing and delivering effective and efficient Harbour Strategy programmes, including options and recommendations for council consideration;
 - d. Issues arising concerning harbour and catchment health, and related options and recommendations for council consideration.
3. Strategy Implementation modifications and refinements: Providing recommendations on programmes and actions (including modifications or refinements to existing or approved programmes) and related funding and timing matters that are required to support and/or give effect to the Harbour Strategy.
4. Requesting reports from Porirua City, Wellington City and/or Greater Wellington Regional Council, as appropriate, on projects and programmes that affect the Harbour, including projects and programmes run by Council Controlled Organisations and other business delivery units or the member organisations of the Committee.
5. Representing the interests of its members in the Harbour Strategy.

Delegations

The Harbour Committee shall have the following delegated powers and be jointly accountable to its Authorising Bodies (Porirua City Council, Greater Wellington Regional Council and Wellington City Council) for the exercising of these powers.¹

In exercising the delegated powers, the Harbour Committee will:

- Operate within policies, plans, standards or guidelines that have been established and approved by its Authorising Bodies;
- Operate having regard to the overall priorities of its Authorising Bodies;
- Operate having regard to the needs of local communities; and
- Operate within approved budgets set by its Authorising Bodies.

The Harbour Committee shall have delegated authority to:

1. Recommend to its Authorising Bodies an annual programme, and proposed budget, for consideration in the development of any annual and/or long term plan;
2. Recommend to its Authorising Bodies any significant change/s in budget or scope of any approved annual programme;
3. Recommend organisational contribution toward strategy implementation, including timing, budget, and delivery specifications.

The Chairperson of the Harbour Committee shall have delegated authority to:

- Represent the Committee to the media on matters related to the Harbour Strategy.

Members of the Committee shall have delegated authority to:

- Represent their Authorising Body in discussions with other agencies on Harbour Strategy delivery
- Represent their Authorising Body on matters relating to the Harbour Strategy to the media.

¹ Local Government Act 2002, Schedule 7, Clause 32

ORDER OF BUSINESS

PAGE

1. MEETING OPENING

2. APOLOGIES

3. CONFLICT OF INTEREST

The Chairperson invites notice from members of:

- 1. Any interests that may create a conflict with their role as an elected member relating to the agenda item(s) for the meeting; and*
- 2. Any interests in items in which they have a direct or indirect pecuniary interest as provided for in the Local Authorities (Members' Interests) Act 1968.*

4. ANNUAL REPORT – HARBOUR STRATEGY – YEAR 2013/2014 4

Report #1013806 of the General Manager Strategy and Planning dated 26 August 2014.

CHAIRPERSON'S RECOMMENDATION

That the Councils receive the Annual Report on the implementation actions for the Porirua Harbour and Catchment Strategy and Action Plan.

5. NOTICE OF MOTION – CHANGE COMMITTEE NAME 22

Notice of motion proposed by Councillor Kropp and seconded by Councillor Baker.



PORIRUA HARBOUR AND CATCHMENT JOINT COMMITTEE

MEETING OF 26 AUGUST 2014

Strategy & Planning
04 August 2014

ANNUAL REPORT – HARBOUR STRATEGY - YEAR 2013/14

PURPOSE

This paper provides an annual report on the implementation of actions for the *Porirua Harbour and Catchment and Action Plan*.

SIGNIFICANCE OF DECISION

This report does not trigger Council's significance policy.

RECOMMENDATIONS

That the Porirua Harbour and Catchment Joint Committee recommend that the Councils:

1. Receive the 26 August 2014 Annual Report on the implementation actions for the *Porirua Harbour and Catchment Strategy and Action Plan*.

Report prepared by:

Keith Calder
PORIRUA HARBOUR STRATEGY COORDINATOR

Approved for submission by:

Wendy Walker
GENERAL MANAGER STRATEGY AND PLANNING

1 CONTRIBUTION TO COUNCIL'S STRATEGIES

Relationship to Council's Strategic Priorities

A City of Villages	A Healthy Harbour	A Growing City	A Great City Experience
✓	✓	✓	✓

- 1.1 The *Porirua Harbour and Catchment Strategy and Action Plan* is a direct response to meet the "healthy harbour and waterways" strategic focus first adopted in the Porirua City Council 2006-16 LTCCP, and affirmed in both the 2009-2019 and 2012-2022 LTPs.

2 BACKGROUND

- 2.1 In 2006 Porirua City Council committed itself, through the 2006-16 LTCCP, to the Porirua Harbour programme. This programme aimed at developing a strategy for 'cleaning-up' and better managing the Porirua Harbour, waterways and catchment and working in partnership with Greater Wellington Regional Council, Wellington City Council and Te Runanga O Toa Rangatira.
- 2.2 In 2010 the three Councils, the Runanga and seven other agencies formally signed an MOU supporting development of a Porirua Harbour Strategy. A draft strategy was completed, adopted by councils and released for public submission in August 2011.
- 2.3 Submissions were received and public hearings held in October 2011. The report and recommendations of the Joint Councils and Runanga Hearing Committee was considered and adopted by all three Councils and Te Runanga O Toa Rangatira in December 2011. All recommendations were incorporated into the final *Porirua Harbour and Catchment Strategy and Action Plan*.
- 2.4 The final Strategy document was officially released in April 2012 at a function hosted by Porirua City Council Mayor, Nick Leggett, and supported by Runanga Chairman, Taku Parai, Greater Wellington Regional Council Chairwoman, Fran Wilde, and Wellington City Mayor, Celia Wade-Brown.
- 2.5 The new Porirua Harbour and Catchment Joint Committee now oversees implementation of the Harbour Strategy. The Strategy Overview Group and the Porirua Harbour Strategy Coordinator continue to facilitate day-to-day activities and preparation of reports to the Committee.

3 PAST YEAR HIGHLIGHTS

- 3.1 This is the second annual report on implementation of the *Porirua Harbour and Catchment Strategy and Action Plan*. The Report is required to update the Harbour Committee, Councils and community on progress in implementation in the past year. A more detailed summary of strategy outputs is attached as [Appendix 1](#).
- 3.2 Highlights from the past year include the following:

3.3 Regulatory Framework:

- **Porirua Harbour and Catchment Joint Committee.** Terms of reference agreed, partners approval and membership appointed.

- **Pauatahanui-Judgeford Structure Plan.** Consultation completed and Plan finalised including riparian protection and incentives for vegetation protection or planting
- **Northern Growth Area Structure Plan.** Agency and public consultation process commenced. Draft plan seeks to avoid steep land erosion, protect or enhance key gullies and waterways, and protect Taupo Swamp.
- **Water Sensitive Urban Design guide.** Guide approved, to promote an approach to water management that addresses both water quantity and water quality issues.

3.4 Projects:

- **Wastewater Network Upgrade:** An on-going and prioritised programme of upgrades including the following:
 - **Network Relining** - 4km in Ranui, Papakowhai and Waitangirua.
 - **Pump Station Upgrades** - multiple pump and electrical upgrades.
 - **CCTV Inspections** - 19km of network to assist renewal prioritisation.
 - **Real-time Flow Monitoring** – further instrument additions (to the previous year) for improved monitoring of network to assist prioritising upgrades.
 - **Cross-connection Detection Programme** (\$200k per year) - 562 properties inspected in Titahi Bay. Faulty connections (11%) fixed or being fixed.
 - **Pauatahanui Village** - Sewer reticulation completed.
- **Stormwater Network Upgrade:** An on-going and prioritised programme of upgrades including the following:
 - **Street Sump Maintenance** – on-going 6-monthly maintenance of all sumps.
 - **High-capacity Street Sumps** - now being installed in new sand replacement sumps.
- **Litter Management:** Continual improvement in frequency of litter collection and reduction including the following:
 - **Increased Foreshore Litter Removal** - by Porirua City Council and community groups – minimum of 6 per year. 14.6 tonnes of litter removed from harbour.
 - **High Visibility ‘Mega-litter’** – a response process established for prompt removal of high visibility ‘mega-litter’ – road cones and shopping carts.
 - **‘Litter Working Group’** - established a group in Porirua City Council to address litter collection and education opportunities.
- **Sediment Management:**
 - **Sediment Reduction Plan** - completed a catchment-wide Sediment Reduction Plan.
 - **Planting** – over 31,000 trees involving several rural and urban environments.
 - **Riparian Protection** – 1600m of Pauatahanui village and Horokiri Stream.
 - **Retirement** – 12.5ha of regenerating forest retired.
 - **Mitigation Planting:** includes 42,000 native plants at Baxter’s knob and Aotea Block Stage 10.
- **Ecological Restoration:**
 - **Estuary Restoration Options** - completed an assessment report for estuary restoration options and priorities.
 - **Porirua Stream mouth enhancement** - completed draft Porirua Stream Mouth and Estuary Enhancement Plan (PSMEEP).

3.5 Community Education and Engagement:

- **School Environmental Education** - Porirua Harbour Trust completed development of curriculum-based, interactive environmental education materials for schools based on the 'Living Waters' DVD series.
- **Rural Guidelines** - completed draft 'Rural Guidelines' for community review.
- **Website Coordination** - improved website presence and coordination between Councils and environment groups. For example, a FAQ webpage is now available answering common questions about the harbour and harbour programme.
- **Street Drains Signage** - 'Drains to harbour' plaques being fitted to street drains at strategic locations in Porirua City.
- **Harbour Column in Kapi Mana News**: Several topical articles.
- **Media Release Coordination** - completed and implementing a joint media protocol for Harbour Strategy activities, events, reports and media releases.
- **School Support** – Council officers are supporting school environmental education initiatives – funding, materials and speakers.
- **Street Art** - the first harbour-related street has been installed at Mungavin Avenue bus stop.
- **Community Survey** – Councils jointly commissioned and completed an Environmental Behaviour Survey for the Porirua Harbour catchment communities to assist education programme development and monitoring.
- **Education Plan** – Council officers commenced development of strategic community engagement and education plan.

3.6 Research and Monitoring

- **Estuarine monitoring**: Completed annual monitoring of key indicators.
- **Intertidal and Subtidal Mapping**: Assessed spatial extent of key habitats, such as seagrass.
- **Catchment/estuary Model** - completed and implementing an integrated catchment/estuary model.
- **Cockle Survey** – 3-yearly survey of Pauatahanui Inlet completed. 20th year of these surveys by GOPI.
- **Fish Survey** - the first full Fish Survey of Porirua Harbour completed by Te Runanga o Toa Rangatira and NIWA.

3.7 Current reporting focuses on outputs – activities towards achieving the objectives of the Harbour Strategy – rather outcomes. The Strategy is a long-term project. Discernible reductions in sedimentation rates and pollution are not expected immediately.

3.8 However, the results of the December 2013 Cockle Survey show a consistent significant increase in cockle numbers (87%) since surveys began in 1995. Including a 21% increase since the last survey in 2010. GOPI and NIWA attribute this to improved land use control and land management within the catchment by the Councils. This is the first real indication that improved catchment management is heading in the right direction.

4 FUTURE ACTIVITIES

4.1 Key future programmes include the following:

4.2 Harbour Strategy 3-year Review

The *Porirua Harbour and Catchment Strategy and Action Plan* is scheduled for review in 2015, as indicated in the original Strategy.

A review report will be prepared for the Harbour Committee and its scheduled end-of-year meeting in November/December.

4.3 Pauatahanui Vegetation Framework (PVF)

The objectives of the PVF are to stabilise erosion prone land and enhance biodiversity values on private rural and semi-rural land in the Pauatahanui catchment of Porirua Harbour. The PVF project has been operating for seven years, and projects include re-vegetating stream banks, retiring steep low-production pasture, planting erosion prone land with exotic or native species and sediment retention works such as enhancing the sediment retention potential of natural wetlands. The PVF will continue to be delivered by external contractor Ground Truth for the 2014-15 financial years.

Greater Wellington Regional Council are proposing in their 2015-2025 Long Term Plan to fund an in-house Land Management Officer to continue this work and extend it across the whole Porirua Harbour catchment.

4.4 Porirua Harbour Sediment Reduction Plan

This plan was commissioned by Greater Wellington Regional Council to provide guidance to Council on reducing harbour sedimentation. It encompasses a range of sediment reduction and retention options, including pasture retirement, soil stabilisation with native or exotic plants, best practice forestry harvest, and sediment capture options such as constructed or natural wetlands, sediment traps and detainment bunds. These will be facilitated on private land through farm plans and advice to landowners. The plan is currently in the final stages of editing and will be completed this month.

4.5 Porirua Stream Mouth and Estuary Enhancement Plan

The Porirua Harbour Estuary Restoration Options Plan highlighted the Porirua Stream mouth as an opportunity for ecological restoration and enhancement. Porirua City Council, Ngati Toa Rangatira, Greater Wellington Regional Council and community representatives support this project to improve biodiversity, enhance the look of the area with an aim to reshape public attitude to the harbour and increase recreational use. Consultants are currently finalising the draft plan, including identifying components which can be implemented immediately and others when funding becomes available. It is anticipated that implementation of some components of the plan will be undertaken this financial year.

4.6 Restoration Around the Harbour

Te Onepoto Bay was another area highlighted for ecological restoration in the Porirua Harbour Estuary Restoration Options Plan. Restoration has begun on the estuary edge this winter with school students planting nearly 1000 native plants.

Greater Wellington Regional Council has also assisted Forest and Bird at the Pauatahanui Wildlife Reserve with restoration planting on the southern side of Pauatahanui Stream. School students planted 1000 native plants this winter and 1000 native plants last winter.

4.7 Biodiversity Management

Ecological weed and pest animal control is undertaken in a number of sites in the Porirua Harbour catchment to protect ecological values and previous restoration efforts. This is done in partnership with Porirua City Council and the sites include Bothamley Park, Papakowhai-Whitby, Camborne Mana, Kakaho-Motukaraka point, Pauatahanui Esplanade Reserve, and Porirua Park.

There are also seven sites in Porirua which are a part of the Greater Wellington Regional Council's Key Native Ecosystem Programme. These sites receive on-going biodiversity management to achieve ecological objectives. These include Karehana Bay Bush, Porirua Colonial Knob Reserves, Pukerua Coast, Rocky Bay, Taupo Valley wetlands, Whitireia Coast, and Battle Hill Bush.

4.8 Infrastructure Upgrade

Wellington City and Porirua City councils are committed to upgrading stormwater and wastewater networks through the catchment. Human and urban activities generate a wide range of contaminants which are often transported in stormwater. Apart from system efficiency and public health capacity issues which can cause flooding, these piped networks also efficiently move contaminants generated by urban activities to Porirua harbour. This contamination can result in public health risks, closing beaches and affecting recreation, shellfish gathering and cultural and tourism values as well as impacting on marine and freshwater biota and ecosystems.

Porirua City Council and Wellington City Council have on-going maintenance, renewals and upgrade programmes for sewer and stormwater. Porirua City Council is in the third year of a prioritised 10 year, \$20M sewer network upgrade involving pipe repair or replacement, pump station upgrades and improved system monitoring. The Council also has an on-going \$200k per year 'Cross-connection Detection Programme' progressively identifying and ensuring repair of illegal connections.

Wellington City has, on average, \$24M budgeted for sewer and sewage treatment and \$20M stormwater (capex and opex combined) each year under the current LTP.

Of this, approximately \$7.0 M per annum is dedicated to the renewal/upgrade of the sewer network and \$4.0M per annum for the renewal/upgrade of the stormwater network. This

figure is for the whole city, the percentage of this budget dedicated to the Porirua Stream varies depending on network condition rating and prioritisation.

WCC's Asset Management Planning process makes provision for the funding of the depreciated portion of the whole of the network. On average the Council assigns an effective life to pipes of around 100 years. Wellington City Council's network is condition-rated on a scale of 1 to 5: One (1) being new and five (5) being ready for renewal. Wellington City Council has been following this practice since the mid-90s. As a result around 6-7% of the whole of the network is classified in condition 5.

Capacity now manages and maintains both the Wellington City and Porirua City infrastructure and therefore a key player in achieving a healthy harbour and streams. Capacity will be invited to participate in the Strategy Overview Group and be actively involved in implementing the Harbour Strategy.

4.9 Shellfish Survey

Te Runanga o Toa Rangatira are undertaking the first shellfish survey of the Onepoto Arm.

Supported by Greater Wellington Regional Council and Porirua City Council, and with NIWA assistance, the Runanga intends to undertake a professional baseline survey of inter-tidal shellfish in the Onepoto Arm later this year, subject to funding. This shellfish survey will be similar to and comparable to the 3-yearly Pauatahanui Inlet Cockle Count undertaken by GOPI.

The Runanga will then undertake a sub-tidal shellfish survey of both arms of the harbour next year, also subject to funding.

The information gained from these surveys will assist Te Runanga o Toa Rangatira in managing, and possibly utilising, the shellfish resources of the harbour. The survey will also assist Councils in better management of the harbour and catchment.

4.10 Takapuwahia Streams Restoration

Te Runanga o Toa Rangatira has initiated a restoration project for the three streams running through the village. Native fish have been identified in the upper catchments within the 'Porirua Scenic Reserve' and migratory species in the lower modified reaches of these streams.

The Runanga are working with the Department of Conservation, the Marine Education Centre and local schools as part of the project. Elements of the restoration initiatives are also part of the Village Programme for Takapuwahia.

A recent \$40K 'contribution' from Porirua City Council will enable preparation of a more detailed plan for the project, as well as significant on-the-ground work.

4.11 Community Engagement and Education

Strategy partners Greater Wellington Regional Council, Porirua City Council, Wellington City Council and Ngati Toa Rangatira will engage with the community by:

- Supporting community groups and individuals undertaking ecological restoration in the catchment
- Providing community education events and initiatives, and supporting these with appropriate materials including publications
- Supporting schools teaching students about the harbour, and environmental education providers who are delivering Porirua Harbour programmes to schools in the catchment

4.12 Bathymetric Survey

The *Porirua Harbour and Catchment Strategy and Action Plan* committed to bathymetric surveys of the Harbour every five years. The baseline Survey was undertaken in 2009. The next survey is due for summer 2014/15.

The previous 2009 survey was the most accurate survey of the Porirua Harbour. It enabled comparisons with six earlier surveys, dating back to that undertaken by the HMS Acheron in 1847. Comparison with a 1974 survey showed that the average sedimentation rates for the intervening 35 year period in the Pauatahanui Inlet and the Onepoto Arm were an excessive 9mm and 5mm per year, respectively.

A more natural sedimentation rate for both arms of the harbour would be an average of 1mm per year. Achieving this rate is the long-term goal of the Harbour Strategy and the priority objective for much of the Action Plan.

A new survey will allow a comparison of sedimentation rates between now and the 2009 measurements. This comparison is critical to measuring progress towards reducing catchment erosion and sedimentation rates in the harbour.

4.13 Name Change – Te-Awarua-o-Porirua Harbour

Settlement of Ngati Toa Rangatira's Treaty of Waitangi claim brings about a name change from Porirua Harbour to Te-Awarua-o-Porirua Harbour.

A report on the name change and its implications will be brought to the Harbour Committee at its next meeting.

4.14 Long-term Plans

Long-term Plans are key to funding implementation of the Harbour Strategy. As the lead agency, Porirua City Council has reflected its commitment to and funding of the Porirua Harbour programme in the 2006-16 and successive LTPs. Recognition of the importance of the harbour to the Council and community will continue in the 2015-25 LTP. This will include continued funding of a full-time dedicated Porirua Harbour Strategy Coordinator and programmes currently identified for future funding.

The concurrent review of the Harbour Strategy and the Harbour Committee's own deliberations, may identify new activities or programmes that should be considered as part of the LTP process.

4.15 Draft Regional Plan

The Regional Plan is currently under review with Greater Wellington Regional Council anticipating to release the draft for consultation in September this year. Amongst other policies, rules and other methods that provide for the management of water quality, some specific provisions are expected regarding the Porirua Harbour and wider catchment.

This formally recognises the importance of the area and the particular sensitivity of its environment. The organisations partnering to implement the *Porirua Harbour and Catchment Strategy and Action Plan* will continue to be involved in the drafting of any policies and methods specifically relating this area.

4.16 Porirua Harbour Catchment Whaitua Committee

Greater Wellington Regional Council will establish the Porirua Harbour Whaitua before the end of 2014. The Whaitua will consult with the public and Councils to make recommendations to the Regional Council on specific regional plan provisions and work programmes for integrated management of land and water resources of the Porirua Harbour catchment.

5 OPERATIONAL IMPLICATIONS

- 5.1 The future actions described in the Strategy Action Plan are predominantly a continuation of existing activities or some re-prioritising of resources within Council operations – both capital and maintenance costs. Many of the actions are agreed joint ones between Porirua City Council, Wellington City Council and/or Greater Wellington Regional Council. Much of the improved coordination of Council activities is already occurring, with continual improvement.
- 5.2 Officers of the three councils and Runanga meet monthly as the 'Strategy Implementation Team' (SIT) for information sharing, to coordinate Council activities and review strategy implementation.
- 5.3 An internal group of key PCC Council managers also meet regularly to coordinate and review implementation of the strategy.
- 5.4 A 'Strategy Overview Group' (SOG) of senior Council and Runanga officers meets quarterly to facilitate executive awareness, coordination and policy decisions.

6 FINANCIAL IMPLICATIONS

- 6.1 Most of the actions identified as part of the Harbour Strategy are joint projects between the Councils or between the Councils and the Runanga. Council initiatives are funded from within existing planned budgets. Runanga projects have been funded from grants.

- 6.2 Modest additional costs for implementing new projects were accepted through the 2012-22 LTPs of both Greater Wellington Regional Council and Porirua City Council.
- 6.3 A number of medium to longer-term activities are identified in the strategy Action Plan that will be reviewed and where appropriate costed in preparation for consideration for inclusion in the 2015-25 LTP.

7 STATUTORY REQUIREMENTS

- 7.1 There are no significant legal implications associated with this Programme and decision

8 CONSULTATION

- 8.1 The Porirua Harbour programme and development of the Harbour Strategy originated from community calls to clean-up the harbour.
- 8.2 Local environmental groups have been consulted in the preparation and adoption of the estuary options and priorities report.
- 8.3 Local environmental groups are involved in the development of the Porirua Stream Mouth Ecological Enhancement Plan.
- 8.4 The draft catchment Sediment Reduction Plan will be sent for review by local environmental groups before finalising and implementation.
- 8.5 The broad community, specific community groups and stakeholding agencies have formed part of the consultation process over the past 5 years. These same stakeholders have access to the Annual Reports on Harbour Strategy implementation
- 8.6 The Harbour Strategy and its implementation is scheduled for formal review parallel with the 2015-25 LTP process.
- 8.7 A range of groups exist that have opportunity to share and review Harbour Strategy implementation progress more regularly, including the following: The Porirua Harbour Inter-agency Advisory Group (PHIAG); the Porirua Harbour and Catchment Community Trust (PHT); the Porirua Harbour Community Education Group (PHCEG); the Harbour Science Review Team, joint Councils' Strategy Implementation Team (SIT); as well as the Strategy Overview Group (SOG) of senior officers from the Councils and Runanga.

9 CONCLUSION

- 9.1 Implementation of the *Porirua Harbour and Catchment Strategy and Action Plan* has concluded its second year. A range of programmes and activities are already underway and provide a solid base for future work and progressive improvement in harbour health.
- 9.2 The results from the recent 3-yearly Pauatahanui Inlet Cockle Survey demonstrate a steady improvement in the ecological health of the Inlet. This improvement has been attributed to better land-use controls and land management by the Councils and is the first tangible sign that the strategy programme is heading in the right direction.

- 9.3 Opportunities for greater public involvement and further increase in the Harbour Strategy profile as planned or are being considered.

10 ATTACHMENTS:

Appendix 1: Harbour Strategy – Summary Outputs 2013/14 [PCC# 1014260]

APPENDIX 1 - ANNUAL REPORT

Harbour Strategy Implementation – Summary Outputs 2013/14

Outputs achieved in year starting 1 July 2013 and ending 30 June 2014

PHYSICAL WORKS		Lead	Sediment Reduction	Pollution Reduction	Ecology Improved
Stormwater	<u>Reduced contaminants</u> entering waterways and harbour through: <ul style="list-style-type: none"> Street sumps maintenance: Continuing strategic targeted 4300 street sump maintenance programme. Street sumps maintenance: Continuing 12, 000 street sump maintenance programme (approx. 2500 sumps in Porirua Stream catchment). ‘High capacity’ street sumps: Now installed for new sumps and sump upgrades. Network renewals: Lincoln Ave inlet; Main Rd main renewal and piping of stream; Court Rd piping of stream; Linden Ave pipe upgrade. Catchment investigations: Collins Ave and Findley St, Tawa. Involves water quality sampling, dye testing and CCTV inspection. Flood hazard modelling: Combined flood hazard risk of Porirua Stream and stormwater networks within the Porirua Stream catchment. 	PCC	X	X	
		WCC	X	X	
		PCC/WCC	X	X	
		WCC		X	
		GW/WCC/PCC		X	
	<u>Reduced sediment</u> and peak stormwater flows entering waterways and harbour through: <ul style="list-style-type: none"> Stormwater detention ponds: 2 permanent detention ponds installed for west Aotea Block. Artificial wetlands: Created for The Banks, Whitby in the Duck Creek catchment. Construction traffic: Implementing building and resource consents for stabilised vehicle crossings during construction. 	PCC	X		
		PCC	X		
		PCC	X		
Sewerage	<u>Reduced sewage leeching</u> to waterways and harbour through: <ul style="list-style-type: none"> Sewer relining: An additional 4km of priority network relined in Ranui, Papakowai & Waitangirua. CCTV Inspections (PCC): 19km sewer and cross-connection inspection to assist prioritisation of renewals¹. Treatment Plant upgrade: Wastewater treatment plant resilience improved with addition of another clarifier and new blowers. Increased compliance to 91% of days, and significantly increased days 100% compliant days to 57%. Pauatahanui reticulation (PCC): Village sewer reticulation completed and old septic tanks decommissioned (\$1.1M). 	PCC		X	
		PCC		X	
		PCC/WCC.		X	
		PCC		X	X

	<p><u>Reduced sewage overflows</u> through increased network capacity – new pumps and upgrades, specifically:</p> <ul style="list-style-type: none"> • Pump replacement: 2 new pumps at Cottage & Mana pump stations. • Pump Station renewals: A new pump and one refit at pumps in Tawa. • Pump electrical upgrades: 3 pumps in three stations (Cottage, Ocean Parade, Postgate Drive). • Cross-connection detection: On-going \$200Kpa detection and related education and enforcement programme. 562 properties inspected in North Titahi Bay with 64 (11%) faulty and either fixed or being fixed by property owners. • Strategic flushing: Strategic flushing regime – 19km of network in past year. • Enhanced network monitoring: 2 additional real-time flow monitoring systems (2xTangere Dr) now installed on 8 critical pump stations (of a total 42) to assist understanding and prioritising network upgrades. A report has been commissioned for analysis of results to enable targeted remedial works and network enhancements over coming years. • Sewer modelling: Tawa trunk sewer. • Flow monitoring: Wastewater monitoring at Tawa to evaluate the extent of inflow and infiltration. 	PCC WCC PCC PCC		X X X X	
		PCC PCC		X X	
		WCC WCC		X X	
		Lead	Sediment Reduction	Pollution Reduction	Ecology Improved
Litter	<p><u>Reduced litter accumulations</u> in harbour through:</p> <ul style="list-style-type: none"> • Harbour litter removal: Improved PCC/community programme has removed 14.6 tonnes of litter and debris removed from harbour, including 390 tyres. • Increased foreshore clean-ups: Improved Porirua Stream & foreshore litter management with 6 PCC clean-ups per year as well as increased community projects. With PHT & Waka ama group. • Installing debris grates at the throat of the sumps at strategic locations to prevent primary rubbish from entering the system and ending up in the Harbour. 	PCC/GOPI/ PHT PCC PCC		X X X	X X X
Environmental management³	<p><u>Erosion and sediment reduction through planting of over 31,000 plants</u>, specifically:</p> <ul style="list-style-type: none"> • Pauatahanui Village & Horokiri streambanks and headwaters: 4350 native plants as part of Pauatahanui Revegetation Framework (PVF) programme². • Kakaho catchment: 270 exotic plants through the PVF programme. • Whitireia Regional Park: 3600 native plants. • Pauatahanui Wildlife Reserve & Te Onepoto school plantings: 2,500 plants. • Upper Porirua Stream: Council have planted 12,400 native plants and volunteer plantings have put in a further 4,500. • Bothamley Park, Colonial Knob Parklands & Pauatahanui Inlet: 2800 plants. • Battle Hill Regional Park: 1000 native plants. <p><u>Erosion and sediment reduction through fencing streambank & forest protection:</u></p> <ul style="list-style-type: none"> • Pauatahanui Village & Horokiri streambanks: 1600m streambank and wetland protection. 	GW/PCC. GW/PCC. GW GW WCC PCC GW	X X X X X X X		X X X X X X X
		GW/PCC.	X		X

- **Upper Horokiri catchment:** 2ha forest remnant fenced³.
- **Moonshine catchment:** 12.5ha of regenerating indigenous native forest retired

Mitigated development activities through long term erosion and sediment reduction on other strategic sites:

- **Aotea:** Over 42,000 native plants at Baxter's Knob and Aotea Block Stage 10.

Sediment control through targeted education, plans & planning controls:

- **Northern Growth Area Structure Plan (PCC):** Process has commenced.
- **Northern Suburbs (WCC):** Continue to regulate earthworks with the intent of minimising earthworks effects through conditions (predominantly Woodridge and smaller site works).
- **Sediment control workshops** for internal business units, Capacity, City Care and their contractors.

Stormwater quantity and quality management:

- **Water sensitive urban design guide** produced for Wellington City.

GW/PCC	X		X
GW/PCC	X		X
PCC	X		X
PCC	X	X	X
WCC	X		
WCC	X		
WCC	X	X	

¹ Nearly whole 400km sewer network has been surveyed by CCTV in the last 10 years.

² Pauatahanui Vegetation Framework programme now engaging 33 separate landowners.

³ Running totals for the Pauatahanui Vegetation Framework programme are provided as note at the end of this document.

AWARENESS	Lead	Sediment Reduction	Pollution Reduction	Ecology Improved
Increased public awareness and behaviour change through:				
• Street sump labels (PCC): Street sumps are now being fitted at strategic locations.	PCC	X	X	X
• Website coordination: Improved and coordinated PCC, PICT, GOPI & GWRC websites.	PCC	-	-	-
• School education: Established school environmental education working group to plan & facilitate harbour education programmes.	Joint	X	X	X
• Commissioned and completed an Environmental Behaviour Survey of Porirua Harbour catchment communities to guide development of environmental education programmes.	Joint	X	X	X
• Community education: Maintained community environmental education working group to plan and facilitate harbour education.	Joint	X	X	X
• School restoration planting: GWRC facilitated school restoration planting at 2 sites over 5 days with 3 schools.	GW	X	X	X
• Harbour column: Several topical articles in KapiMana News.	GW	X	X	X
• Rural Guidelines: Draft 'Rural Guidelines' prepared for agency review.	PCC	X	X	X
• Media coordination: Agreed on and implementing joint Councils/Runanga media protocol for Harbour Strategy activities, events & reports.	Joint	-	-	-

RESEARCH & MONITORING		Lead	Sediment Reduction	Pollution Reduction	Ecology Improved
Improved evidence-based catchment and estuary management decision-making & planning through:					
<ul style="list-style-type: none"> • Modelling: Completed and utilising catchment/estuary modelling. • Estuary planning: Completed an estuary restoration options report. • Catchment planning: Completed a catchment-wide Sediment Reduction Plan. • Annual estuarine monitoring: Monitoring of key indicators – sedimentation and eutrophication monitoring was completed in January 2014 by consultants. Monitoring included sedimentation rates above buried plates, sediment texture, sediment oxygenation and nuisance algal cover. • Intertidal and subtidal mapping: Mapping of the harbour to assess the spatial extent of key habitats, such as seagrass. • Cockle Survey (Pauatahanui Inlet): 20th year of GOPI 3 year survey in Inlet. • Fish Survey: TROTR completed the 3 stages of the Survey with NIWA. • Stormwater monitoring: continue targeted stormwater sampling programme to assist pollution elimination and guide network renewals. • Ranking of ecological health of tributary streams in the Porirua Stream Catchment. Victoria Summer Research Student. 		Joint GW/PCC. Joint GW GW GOPI TROTR WCC WCC	X X X X	X X X X X	X X X
PROJECTS PLANNED FOR 2014/15		Lead	Sediment Reduction	Pollution Reduction	Ecology Improved
PHYSICAL WORK					
Stormwater	<p>Reduce contaminants entering waterways and harbour with:</p> <ul style="list-style-type: none"> • Stormwater improvements: Minor works city-wide, major work includes pipe upgrade in Cannons Creek. • Mains renewal: Main Road (and piping stream) at Tawa; and Linden Ave. • Flood Hazard Modelling: Modelling the combined flood hazard risk from the Porirua Stream and the stormwater network within the Porirua Stream catchment. 	PCC WCC GW/WCC/ PCC		X X X	
Sewerage	<p>Reduce sewage leaching and overflows through increased network capacity, specifically:</p> <ul style="list-style-type: none"> • Long-term funding: Continue \$16M sewer renewal over 10 years. • Wastewater network renewals (\$8M): City wide. • Cross-connection Detection Programme: Ongoing \$200k per year. • Pump replacement: Planned 2 replacements pump station pumps per year with Plimmerton Boating Club and fire station pump completion scheduled for 2014/15. • Pump station upgrade: New pump at Boscobel Lane, Tawa. • Sewer relining: Scheduled for Titahi Bay, Papakowhai & Whitby. • Rehabilitation: Reviewing resilience and capacity of under-harbour sewer line between Paremata & Onepoto for possible rehab (\$6.5M). • Storage tanks: Planning for sewage storage tanks to be installed at Mana & Duck Creek, and the Wall 	PCC WCC PCC PCC WCC PCC PCC PCC		X X X X X X X X	

	Place/Tangare Drive trunk system. <ul style="list-style-type: none"> • Sewer modelling: Trunk sewer, Tawa. • Flow monitoring: To evaluate extent of inflow and infiltration at Tawa 	WCC WCC		X X	
Litter	<u>Reduce litter residence time</u> on harbour foreshore through: <ul style="list-style-type: none"> • Litter management: Increased public involvement in enhanced foreshore litter management programmes continue – including GOPI, PHT & Aotea College. • Management extension: Partnership between PCC and, waka ama groups to extend harbour edge litter removal to the eastern shore of Onepoto Arm (adjacent rail line). 	PCC/PHT/ GOPI PCC		X X	X X
Environmental Management	Establish Porirua Harbour & Catchment Joint Committee: First meeting late August 2014. Committee will provide better governance & accountability for implementation of the Harbour Strategy. Harbour Strategy Review: Three year review of <i>Porirua Harbour and Catchment Strategy and Action Plan</i> parallel with the 2015 LTP review. Establish Porirua Harbour Catchment Whaitua Committee: The purpose of the committee is to make recommendations to GWRC on specific regional plan provisions and work programmes for integrated management of land and water resources. <u>Reduce erosion and sediment run-off</u> through: <ul style="list-style-type: none"> • Planting: Native plants at Karehana Park, Bothamley Park, Colonial Knob Parklands (PCC) and Pauatahanui areas (GWRC/PCC), and implementing 'Two Million Trees' (WCC). • Estuary Plan: Complete and commence implementation of a Porirua Stream Mouth Enhancement Plan. • Catchment Plan: Complete and implement the Sediment Reduction Plan. • Regional Plan: Notify Draft Regional Plan late 2014. • Stormwater planning: Implement water sensitive urban design. • Enforcement: Relocate focus of 'Take Charge' business education and monitoring programme to Porirua Harbour catchment. 	Joint Joint GW All GW/PCC Joint GW WCC GW	X X X X X X X X	X X X X X X X	X X X X X X X X
AWARENESS		Lead	Sediment Reduction	Pollution Reduction	Ecology Improved
	Continue to raise public awareness of harbours issues and recruit public participation through: <ul style="list-style-type: none"> • Education/Community Engagement Plan: Complete a joint Councils' Education Plan for Harbour Strategy activities, events & reports. • Community education: Maintain Porirua Harbour Community Education Group to facilitate harbour education. • School education: Consider financial support for external education providers in the catchment. • Community events and initiatives: Investigate opportunities for events, initiatives and publications promoting the harbour and Strategy and supporting restoration projects. 	Joint Joint GW GW PCC	X X X X X	X X X X X	X X X X X

- **Advertorials:** Commence 4x full-page harbour advertorials in KMN & Wellingtonian (July 2014).
- **Rural Guidelines:** Complete and distribute 'Rural Guidelines' to educate landowners on issues and best practice options for reducing sediment, contaminants and ecological harm.
- **Builders' Guidelines:** Develop a pocket guideline for the Wellington Region to provide succinct advice for contractors and builders about reducing sediment and other pollutants from construction sites.

PCC	X	X	X
GWRC	X	X	X
Lead	Sediment Reduction	Pollution Reduction	Ecology Improved
GW	X	X	X
GW	X	X	
GW		X	
GW		X	
GW/PCC TROTR	X		X

SCIENCE & MONITORING

Continue to improve evidence-based catchment and estuary management decision-making & planning through:

- **Environmental monitoring:** Maintaining environmental monitoring network and data collection, and:
 - **Data report:** Preparation of the first Porirua Harbour and catchment Data Report summarising all of the programme-specific work (with a particular focus on continuous turbidity monitoring) undertaken to 30 June 2014.
 - **Foundation report:** Detail the inner workings of the CLUES catchment sediment yield model and the source-to-sink model developed in 2012/13.
 - **Plume dispersion model:** Develop a model as the basis for predicting pathogen contamination of shellfish and key recreational areas within Porirua Harbour.
 - **Preliminary literature review:** (and possibly a targeted investigation) of elevated copper concentrations present in the Porirua Stream sub-catchment.
- **Bathymetric Survey:** Undertake scheduled 5-year survey and sedimentation comparison.
- **Shellfish Survey** – First field survey of Onepoto Arm intertidal area by NIWA. Plan to follow this up with a subtidal survey of both arms of the harbour.

OUTCOMES: December 2013 Cockle Survey by GOPI/NIWA shows 21% increased numbers since 2011, and 87% since 1995. This would indicate a sedimentation rate reduction and a healthier ecology in Pauatahanui Inlet.

NOTE: – Running Totals for the Pauatahanui Vegetation Framework (PVF) programme:

A. Total work over past seven years the totals for the Pauatahanui Revegetation programme are:

- **Participants:** Projects have been undertaken or are occurring now with a total of 33 landowners.
- **Planting:** 58,250 native seedlings have been planted, including 5,000 in Whitireia Regional Park, within the harbour catchment.
- **Fencing:** 9070m of new fence has been constructed to protect riparian areas and wetlands.
- **Afforestation:** Funding for exotic forest projects on two properties in the upper Horokiri catchment has been facilitated under the Afforestation Grants Scheme. Projects include planting of 50,000 exotic forest seedlings and shifting approximately 40ha of steep land from pasture to forestry.

- **Retirement:** 58ha of scrubland and indigenous forest regeneration in upper catchments was retired. Some of this was achieved under the Afforestation Grants Scheme.
- **Covenants:** Covenanted is underway of 6ha of mature lowland podocarp tawa forest in a upper catchment area.
- **Fencing and planting:**
 - 1500m of the lower Horokiri Stream.
 - 900m of the lower Kakaho Stream plus an additional 200m side stream. Work prior to the project had fenced and planted 375m, giving a total of approximately 1200m of the lower Kakaho Stream that is fenced and planted.
 - An additional 5170m of tributary streams.

Notice of Motion Form

19 August 2014

To the Chief Executive
Porirua City Council

At the Porirua Harbour Catchment Joint Committee meeting being held on Tuesday 26 August 2014 I propose to move the following motion:

"That the Porirua Harbour Catchment Joint Committee name be changed to 'Te-Awarua-o-Porirua Harbour and Catchment Joint Committee'".

Signed:


[Name of Proposer]


[Name of Seconder]