
REPORT 3

**REVIEWING THE MANAGEMENT PLANS FOR THE
WELLINGTON BOTANIC GARDEN, OTARI WILTON'S BUSH,
BOLTON STREET MEMORIAL PARK AND TRUBY KING PARK**

1. Purpose of report

To seek the agreement of the Environment Committee (EC) to consult on the draft Botanic Gardens of Wellington Management Plan

2. Executive summary

On 2 October 2013 the Council approved a review of the management plans for Wellington Botanic Garden, Otari Wilton's Bush, Bolton Street Memorial Park and Truby King Park and their incorporation into one plan. The draft Botanic Gardens of Wellington Management Plan 2014 has been guided by visitor research, consultation with key stakeholders, a review of the role of botanic gardens and is consistent with the priorities and actions in Our Capital Spaces, an Open Spaces and Recreation Framework for Wellington: 2013 – 23.

The draft Botanic Gardens of Wellington Management Plan produced following the review proposes some overall changes in approach:

- An increased emphasis on environmental education and conservation leadership locally and nationally
- Working more closely with other nature based attractions such as Wellington Zoo and Zealandia to showcase Wellington as an eco-city
- Improving the visitor experience
- Developing a marketing strategy for the gardens with a focus on adding value to garden visits by increasing visitors focus on education and conservation messages.
- Partnering with external funders to support new initiatives and programmes
- Introducing sustainable management practices for all aspects of the Gardens management.
- Support and resource Friends and community groups to increase their membership and involvement in garden management.
- A new approach to assessing uses and development based on a system of rules.

The Plan also proposes a change of name for Bolton Street Memorial Park to Bolton Street Cemetery.

3. Recommendations

Officers recommend that the Environment Committee:

1. *Receive the information.*
2. *Recommend that the draft Botanic Gardens of Wellington Management Plan (attached as Appendix 1) be approved for public consultation.*
3. *Delegate to the Chief Executive Officer and portfolio leader the authority to approve minor wording, formatting and content changes as agreed by the Committee.*
4. *Instruct officers to meet directly with mana whenua and key stakeholder organisations as part of the consultation process.*
5. *Note that public consultation on the draft Botanic Gardens of Wellington Management Plan will occur from early April for a period of 8 weeks and will be presented to Environment Committee for final approval.*

4. Background

The Reserves Act (1977) requires all reserves, for which the Council is the administering body, to be covered by an approved management plan. A management plan provides the community with certainty about the function and management of reserves and enables the Council to more efficiently manage them under one plan. The Act also requires the administering body, in this case the Council to keep the plans under continuous review so they adapt to changing circumstances.

Management planning process and timeline

On 2 October 2013 the Council approved a review of the management plans for the Botanic Gardens of Wellington (the Gardens) and their incorporation of these plans into one document.

The management plans being reviewed are;

- Truby King Park Conservation and Management Plan 1993
- The Combined Management Plan for the Wellington Botanic Garden, Anderson Park and Bolton St Memorial Park 2002, and
- the Otari Native Botanic Garden and Wilton's Bush Reserve Management Plan 2007

The statutory process for the review of management plans under the Reserves Act 1977 follows the following process:

1. The Council notifies its intention to review the plans and distributes a **discussion document** asking for written suggestions on the proposed plan. Consultation takes 2 months
2. Officers prepares a **draft management plan** based on the feedback

3. The Council approves the draft plan for consultation. Consultation on the draft plan takes 2 months
4. The Council considers written submissions and if people wish to be heard will hear oral submissions on the draft plan and approves the final plan.

In this case the Council determined that written suggestions on the review outlined in stage 1 would not materially assist in its preparation¹ .

Officers have completed preparation of a draft plan for public consultation.

5. Discussion

The objectives, policies and initiatives in this plan explain the intended methods for the protection, management, development, operation and public use of the Gardens.

The Plan identifies:

- The long term vision and guiding principles for the Gardens
- The general plant collection concept across the Gardens as well as the roles and themes for each Garden
- The general education and awareness messages and delivery techniques across the Gardens
- The overall visitor experience in each garden
- The collective and integrated marketing and promotion requirements
- The cultural and natural heritage features of the Gardens and how these will be protected
- Key Partnerships and community involvement of the Gardens
- Actions required to implement this plan

The draft plan (Appendix 1) is structured around three main sections:

Section one: General policies, including education and awareness, plant collections, recreation, heritage conservation, marketing and promotion, community partnerships and rules for use and development.

Section two: Specific Garden Management Plans

This will include background information, description and historic summary of each Garden. It will include a vision for each Garden and establish goals and specific policies to achieve these visions.

Section three: Rules for use and Development

This section will outline the rules relating to the provision and management of all development and activities with the Gardens. These included activities that are allowed, managed and prohibited activities.

¹ Consistent with Section 41 (5A) of the Reserves Act 1977

In addition a list of implementation actions have been identified for each section. Actions will be prioritised and categorised into; new initiative, existing programme or expansion of existing programme following public consultation and feedback.

Key issues, opportunities and actions

The Plan proposes some overall changes in approach, in particular:

- An increased emphasis on environmental education and conservation leadership locally and nationally
- Working more closely with other nature based attractions such as Wellington Zoo and Zealandia to showcase Wellington as an eco-city
- Improving the visitor experience
- Developing a marketing strategy for the gardens with a focus on adding value to garden visits by increasing visitors focus on education and conservation messages. There will be a particular emphasis on the national profile and role of Otari Wilton's Bush and Wellington Botanic Garden.
- Partnering with external funders to support new initiatives and programmes
- Introducing sustainable management practices for all aspects of the Gardens management.
- Supporting and resourcing Friends and community groups to increase their membership and involvement in garden management.
- A new approach to assessing uses and development based on a system of rules.

In addition there are specific proposals for each garden.

Wellington Botanic Garden (including Anderson Park): A major regional recreation and tourism destination and a major green space close to the CBD. People visit the Wellington Botanic Garden for a range of reasons including viewing plants, walking and exercising, attending events and relaxing and enjoying time with family and friends. Anderson Park is an inner city sports field used for both summer and winter codes.

Main proposals in the plan include:

- Developing the Children's Garden with a theme of people's dependence on plants for life across four principal plant services: food, fibre, construction and medicine.
- Developing the Treehouse as the major visitor centre providing changing exhibitions about conservation, environmental issues and gardening as well as meeting and community space.

In addition the plan proposes;

- Continuing the replacement of the ageing conifer framework
- Reviewing the wider landscape and plant collections between the Play Area and the Duckpond to develop attractive, inspiring, educational themed gardens.
- Developing a landscape concept plan for the Cable Car entrance which recognises its status as a major entrance and encourages visitors to enter and explore
- Improving protection and enhancement of the native forest remnants
- Extending the Herb Garden south towards Serpentine Way to develop a space suitable to hire out for special events including weddings
- Investigating the development of a War and Victory garden on Remembrance Ridge.
- Review planting and interpretation in the Threatened Species garden to better articulate the messages around the pressure on plants and ecosystems.

Otari Wilton's Bush: The only public garden in New Zealand dedicated solely to native plants. It's a place of inspiration, learning and engaging with NZ's natural environment. It plays a leading role in New Zealand ex-situ plant conservation. At 100ha it's the largest of the four Gardens. It contains the largest remaining primary native forest remnant (17ha) in Wellington City and 5 ha of native botanic gardens.

Main proposals in the plan include:

- Managing the native forest at Otari Wilton's Bush as a key native ecosystem and establishing it as part of the Zealandia halo concept
- Establishing the Cockayne Centre in the ex-curators house to support education and research and develop the garden around the Centre to showcase natives as garden plants.

In addition the plan proposes

- Continuing to redevelop pathways through the native botanic gardens with viewing points and links onto the Circular Walk and Nature Trail consistent with the proposal in the Landscape Development Plan.
- Redeveloping the taxonomic collections in the native botanic gardens (below the Cockayne Lookout) around the proposed redeveloped pathways.
- Identifying and testing new interactive trails in particular a family trail (Tamariki Trail) and an ethnobotanical trail.
- Consider reintroducing fauna known historically to have occurred in the Wellington Peninsula forests where possible in conjunction with Zealandia.
- Developing a multi-purpose track naming and identification system

Bolton Street Memorial Park: This historic cemetery was developed from three 19th century cemeteries for the Wellington colony, being the Public, Church of England and Jewish cemeteries. As well as containing the historic memorials, it has an extensive collection of heritage roses and a visitor centre displaying information on the graves.

The main proposal in the plan is to:

- Change the name of Bolton Street Memorial Park to Bolton Street Cemetery

In addition the plan proposes

- Preparing and implementing a five year programme of maintenance and restoration work in consultation with the Friends of Bolton Street Memorial Park.
- Electronically locating all known grave sites and headstones and storing them on the Council Geographic Information System, (GIS)
- Working with the Archdiocese of Wellington to integrate administrative records and maintenance standards between the two historic cemeteries at Mount Street and Bolton Street.

Name change: Bolton Street Memorial Park was developed from three 19th century cemeteries for the Wellington colony, being the Public, Church of England and Jewish cemeteries. The Friends of Bolton Street Memorial Park have proposed a name change to Bolton Street Cemetery for the following reasons:

- The word “cemetery” reflects more closely the history and significance of the area. Although it is a closed burial ground, it continues to be a cemetery because human remains are interred there. It is unusual in New Zealand for a burial ground not to be described as a cemetery.
- The customary usage is to refer to it as Bolton Street Cemetery despite the previous name change.
- The public do not necessarily associate the term “Memorial Park” with a cemetery. This is likely to be exacerbated and also lead to further confusion when the National War Memorial Park is opened in Buckle Street
- Calling the area Bolton Street Cemetery will give it a recognisable identity as a cultural destination.

Naming of open space is guided by the Open Space Naming Policy. This policy only applies to new or un-named open spaces and is not used to rename already gazetted or Council approved names. There is no specific record of the name having been gazetted but it has been given official Council status through the park reopening and its use as an official name through the management plan.

It is proposed to consult on the name change during the consultation on the overall plan.

Truby King Park

This historic property sits on a ridge in Melrose with magnificent views over Evans Bay, Lyall Bay and Newtown. Formerly the home of Sir Frederick Truby King and his wife Isabella it comprises the original house designed in 1923 by architect Gray Young, the historic garden laid out between 1925 and 1935 by Truby King and a mausoleum where Frederick and Isabella Truby King are interred.

Main proposals in the plan include:

- Retaining the essential landscape character of the historic garden by:
 - completing reconstruction of the landscape features particularly the walls and archways around the house
 - Replacing the large pine tree framework with a framework of smaller trees and open up the views over Evans Bay.
 - Increasing use of edible plant and tree species to emphasise the holistic nature of the garden
- Finding a long term sustainable use for the house that enables public access on either a regular or managed basis.
- Developing a schedule of regular open days and guided tours for the house and garden
- Developing a partnership with the Truby King Park Trust and the local community to increase use and visitation as a local community space.

5.1 Consultation and Engagement

The Reserves Act (1977) requires the Draft Management Plan to be publicly notified and available for comment for no less than a period of two months and states that submitters must have the opportunity to be heard in front of Committee prior to recommending the plan for approval by the Council.

Accordingly, the submission period will run from early April 2014 until early June 2014 and will be advertised in Our Wellington page in the Dominion Post.

Anyone who wishes to be heard in support of their submission will have the opportunity to speak to the Environment Committee. This will happen in early August 2014.

The final management plan with proposed amendments as a result of public consultation will be presented to the Environment Committee for approval in August or September 2013.

In addition to these statutory requirements, the communication plan for the Draft Botanic Gardens of Wellington Management Plan includes the use of:

- Media releases
- Council website plus Facebook page
- On-site notices at major Garden entrances

- Direct distribution to key stakeholders and previous submitters and meeting with them if required.
- Distribution to libraries and Service Centre
- Meetings with the Council's Treaty Partners.
- An afternoon information session in the Treehouse Visitor Centre on Sunday 4 May between 2 and 4pm.

5.2 Long Term Plan considerations

The final plan will include a series of initiatives that will be considered for inclusion in the 2015 – 2025 Long Term Plan.

6. Conclusion

The draft Botanic Gardens of Wellington Management Plan has been prepared to replace existing management plans for Wellington Botanic Garden, Otari – Wilton's Bush, Bolton Street Memorial park, Truby King Park and Anderson Park.

It is now proposed to release the draft plan for public consultation

Contact Officer: *Mike Oates - Manager Open Space and Recreation Planning*

SUPPORTING INFORMATION

1) Strategic fit / Strategic outcome

The plan supports Council's overall vision of Wellington Towards 2040: Smart Capital. In particular it supports the Eco –city and people centred city outcomes).

2) LTP/Annual Plan reference and long term financial impact

The project is contained in the Council Plan A004 – Open Space Planning. There are no financial implications at this stage

3) Treaty of Waitangi considerations

The Bill is consistent with the Waitangi Tribunal Report. "Waitangi Tribunal, Te Wanganui ā tara me ōna Takiwā: Report on the Wellington District 2003".

4) Decision-making

This is not a significant decision.

5) Consultation

a) General consultation

The Council will consult with the public on the draft Plan.

b) Consultation with Maori

Mana whenua have been consulted and provided feedback that has been incorporated into the draft Plan.

6) Legal implications

The draft plan has been prepared consistent with Section 41 of the Reserves Act 1977

7) Consistency with existing policy

The draft plan is consistent with Our Capital Spaces, an Open Space and Recreation Framework for Wellington.

APPENDIX 1 - Botanic Gardens of Wellington Draft Management Plan April 2014

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1. Introduction

1.1 *The Botanic Gardens of Wellington*

Botanic gardens are institutions holding documented collections of living plants for the purposes of scientific research, conservation, display and education¹.

The Botanic Gardens of Wellington are four unique yet complementary nature based and cultural visitor attractions.

They are;

- Wellington Botanic Garden (including Anderson Park)
- Otari Native Botanic Garden and Wilton's Bush Reserve (Otari Wilton's Bush)
- Bolton Street Memorial Park
- Truby King Park

(Refer to diagram 1 Map showing their location).

For the purpose of this Draft Management Plan these four sites collectively will be referred to as the "Gardens".

The Gardens play an important environmental and social role. **Globally**, Wellington Botanic Garden and Otari Wilton's Bush work towards the targets identified in the Global Strategy for Plant Conservation (GSPC) an international framework aimed at halting the loss of plant diversity. The Wellington Botanic Garden and Otari are Gardens of **National** Significance² and work with a number of national botanical and conservation organisations. At a **local** level, the Gardens showcase Wellington's environmental leadership and contribute to the City's open space and recreation network.

The Gardens inspire and share knowledge about plants, conservation, horticulture, Maori and European heritage and sustainable environmental management.

They are valued and enjoyed by the local community for a wide range of casual and organised activities. They contribute towards public health and well-being.

Wellington Botanic Garden (and Anderson Park)

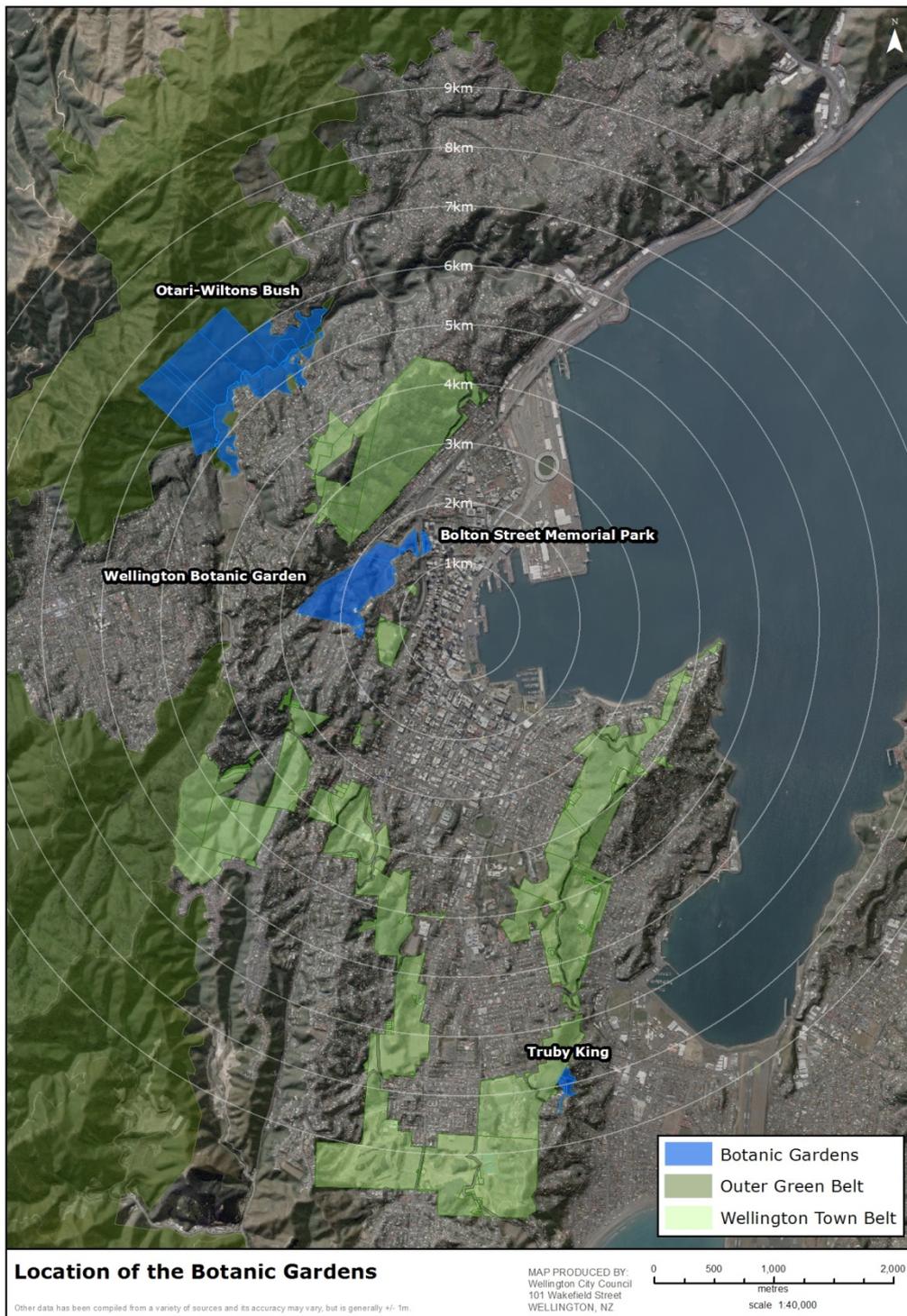
Wellington Botanic Garden is one of New Zealand's oldest public gardens. Land was set aside for a botanic garden in 1844 and formalised in 1869. Today it comprises 25 hectares of heritage garden landscape, set amongst the first line of hills behind the City's centre, between the suburbs of Kelburn and Thorndon.

The green backdrop of ridgelines and gullies is home to mature conifers, native forest, plant collections from around the world and seasonal floral displays, interwoven with public art and heritage features.

Most of the Wellington Botanic Garden is classified as Local Purpose Reserve (Public Gardens) under the Reserves Act 1977. It is managed under the Wellington Botanic Garden Vesting Act 1891, which vested control of the Garden in the Wellington City Council. The Act states that the Garden is to be maintained for recreation and enjoyment of the citizens of Wellington, and provides that the original

¹ Botanic Gardens Conservation International

² Registered under the New Zealand Gardens Trust



13 acres (5 ha) set aside by the Wellington Botanic Garden Act 1869 be maintained as a true botanic garden in perpetuity.

Anderson Park is a well-used sports field for both summer and winter codes, and is classified as Recreation Reserve.

The Wellington Botanic Garden is a major regional recreation and tourism destination and a major green space close to the CBD. There are around 1.2 million visits a year.

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People visit the Wellington Botanic Garden for a range of reasons including viewing plants, walking and exercising, attending events and relaxing and enjoying time with family and friends.

Otari Native Botanic Garden and Wilton's Bush Reserve

Otari Native Botanic Garden and Wilton's Bush Reserve (Otari Wilton's Bush) is about 5 km from the CBD and nestles in the deep valley formed by the Kaiwharawhara Stream (also known as the Te Mahanga Stream), between the suburbs of Wilton, Karori and Crofton Downs.

Otari Wilton's Bush is the only public garden in New Zealand dedicated solely to native plants. It's a place of inspiration, learning and engaging with NZ's natural environment.

At 100ha it's the largest of the four Gardens. It contains the largest remaining primary native forest remnant (17ha) in Wellington City and 5 ha of plant collections. The balance of the area is fragmented bush remnants and large tracts of regenerating bush. The native plant collections highlight NZ flora's extent, diversity, use and rarity. It has a sense of wilderness and naturalness in comparison with the Wellington Botanic Garden and provides a bush experience close to the CBD.

Otari Wilton's Bush has been used recreationally by Wellingtonians since the 1860's, and continues to be a recreation destination for locals and tourists. The most popular activities are walking, running, sight-seeing and picnicking. A range of pedestrian experiences are offered from the well-used and maintained Circular Walkway to more rugged routes of the yellow, red and blue trails. There are also well formed links to the Outer Green Belt, Johnston's Hill Reserve and Karori Cemetery. Current visitation is around 80,000 a year.

Bolton Street Memorial Park

Bolton Street Memorial Park was developed from three 19th century cemeteries for the Wellington colony, being the Public, Church of England and Jewish cemeteries. As well as containing the historic memorials, it has an extensive collection of heritage roses and a visitor centre displaying information on the graves.

The Cemetery is located on the slope, divided by the motorway, falling away to the east from Anderson Park and the Seddon Memorial. It provides a green link between the Wellington Botanic Garden, the Terrace and the CBD.

8769 people are interred in the Cemetery. There are 1334 visible memorials and headstones commemorating the City's early colonial history, resting amongst a heritage rose collection and mature trees. In addition approximately 3700 graves were uncovered and reburied to make way for the Wellington motorway.

It has a peaceful and contemplative ambience. The layout is informal and irregular emphasising its historic character. Rich in detail of pathways, historic artefacts and plants the Cemetery invites quiet exploration and appreciation of Wellington's colonial history and as a retreat from the city.

The cemetery is classified as Historic Reserve.

Truby King Park

This historic property sits on a ridge in Melrose with magnificent views over Evans Bay, Lyall Bay and Newtown. Formerly the home of Sir Frederick Truby King and his wife Isabella it comprises the original house designed in 1923 by architect Gray

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Young, the historic garden laid out between 1925 and 1935 by Truby King and a mausoleum where Frederick and Isabella Truby King are interred.

The 1.9 hectare site was acquired by the Council in 1990 and is classified as Historic Reserve.

At its peak it was a garden which was highly regarded throughout Wellington for its use of plants and its built landscape.

1.2 The Botanic Gardens of Wellington Draft Management Plan

Purpose of the Plan

The purpose of this plan is to provide Wellington City Council with a clear, consistent and co-ordinated framework for managing the Gardens over the next 10 years. It pulls together and addresses issues that are common across these areas, while still recognising the uniqueness and role of each garden.

The management plan meets the requirements of the Reserves Act 1977.

Scope of the Plan

This plan amalgamates three separate but complementary plans into one guiding document, to reflect the management and operational structure of the Gardens and streamline management plan reviews.

In 1991 the Wellington City Council decided to manage the four public gardens collectively as “The Botanic Gardens of Wellington”.

The Council currently manages the Gardens under the following plans, which will be replaced by this plan.

- Truby King Park Conservation and Management Plan 1993
- The Combined Management Plan for the Wellington Botanic Garden, Anderson Park and Bolton St Memorial Park 2002, and
- The Otari Native Botanic Garden and Wilton’s Bush Reserve Management Plan 2007

Since the last management plans were adopted, with the exception of the Otari Wilton’s Bush plan, there have been many strategic, social and environment changes that have a significant impact on how we relate to and manage the Gardens. The Council has also completed many of the major projects identified in previous plans.

This plan seeks to build on past achievements, guide decisions and prioritise where we need to focus our efforts over the next 10 years.

The plan identifies;

- The overall long term vision for the Botanic Gardens of Wellington
- The guiding principles
- The general plant collection concept across the Gardens as well as the roles and themes for each Garden
- The general education and awareness messages and delivery techniques across the Gardens
- The recreation role and activities of the Gardens

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- The collective and integrated marketing and promotion requirements
- The cultural and natural heritage features of the Gardens and how these will be protected
- Key Partnerships and community involvement of the Gardens
- Actions required to implement this plan

Structure of the Plan

This plan is divided into eight chapters.

Chapter 1: Introduction, describes what the Botanic Gardens of Wellington are, and outlines the purpose, structure and coverage of the plan and the strategic framework.

Chapter 2: Botanic Gardens of Wellington Management Framework. outlines the overall vision for the Gardens and the guiding principles on which the objectives and policies are based.

Chapter 3: General Objectives and Policies explains the intended methods for the overall management, operation, development, protection, and public use of the Gardens. It is structured around six key themes;

1. Plant Collections
2. Education and Awareness
3. Recreation and access
4. Cultural and natural heritage
5. Marketing and Promotion
6. Partnerships and community involvement

Chapter 4: Wellington Botanic Garden includes specific Garden Objectives and Policies, key characteristics of the Garden, legal status, management focus and garden maps.

Chapter 5: Otari Wilton's Bush includes specific Garden Objectives and Policies, key characteristics of the Garden, legal status, management focus and garden maps.

Chapter 6: Bolton Street Memorial Park includes specific Garden Objectives and Policies, key characteristics of the Garden, legal status, management focus and garden maps.

Chapter 7: Truby King Park includes specific Garden Objectives and Policies, key characteristics of the Garden, legal status, management focus and garden maps.

Chapter 8: Rules for Use and Development. This section outlines the rules relating to the provision and management of all development and activities with the four Gardens. Activities are categorised into allowed, managed or prohibited activities.

What does the Plan include?

Objectives and Policies in this plan will cover:

Wellington Botanic Garden

- 25.44 ha of Wellington Botanic Garden Local Purpose Reserve land
- 2.82 ha of Recreation Reserve, Anderson Park .

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This includes the Cable Car terminus/ Skyline Restaurant Area: Council owns the land at 1 Upland Road, Kelburn known as the Cable Car terminus/ Skyline Restaurant Area. The majority of the site is occupied by the Skyline building and the car park. This land was vested as Botanic Garden through the 1891 Vesting Act. In 1995, the site was classified as Local Purpose Reserve (Public Gardens).

Bolton Street Memorial Park

- 2.24 ha Historic Reserve
- 0.1554ha Leased land

Otari Native Botanic Garden and Wilton Bush Reserve

- 75.5 ha Scenic Reserve
- 23.55 ha other reserve status

Truby King Park

- 1.97 ha Historic Reserve

Adjacent lands not covered by the Plan

The Observatory Reserve owned by the Crown and administered by the Department of Conservation comprising the Dominion Observatory, Thomas King Observatory, Met Services building and adjacent building now occupied by the Salamanca Group. The Botanic Garden maintains the grounds and owns some of the assets such as the colonial lighting. The building leases are managed separately by DOC.

The Carter Observatory owned and managed by Wellington City Council through the Wellington Museums Trust.

Neither of these areas are formally covered by this management plan. However, the Council will continue to manage them consistently with the adjacent Garden to ensure a seamless experience for garden visitors and look to prepare an MOU with DoC clarifying responsibilities within the Observatory Reserve.

Road Reserve

Road Reserve adjoining the Wellington Botanic Garden, Bolton Street Memorial Park, Otari Wilton's Bush and Truby King Park will be managed in a consistent manner with the objectives and policies of this Management Plan

Future Review of this Plan

This plan may be reviewed at any time in accordance with increased knowledge and /or changing circumstances. The term of this plan is expected to be 10 years and the implementation plan 5 years.

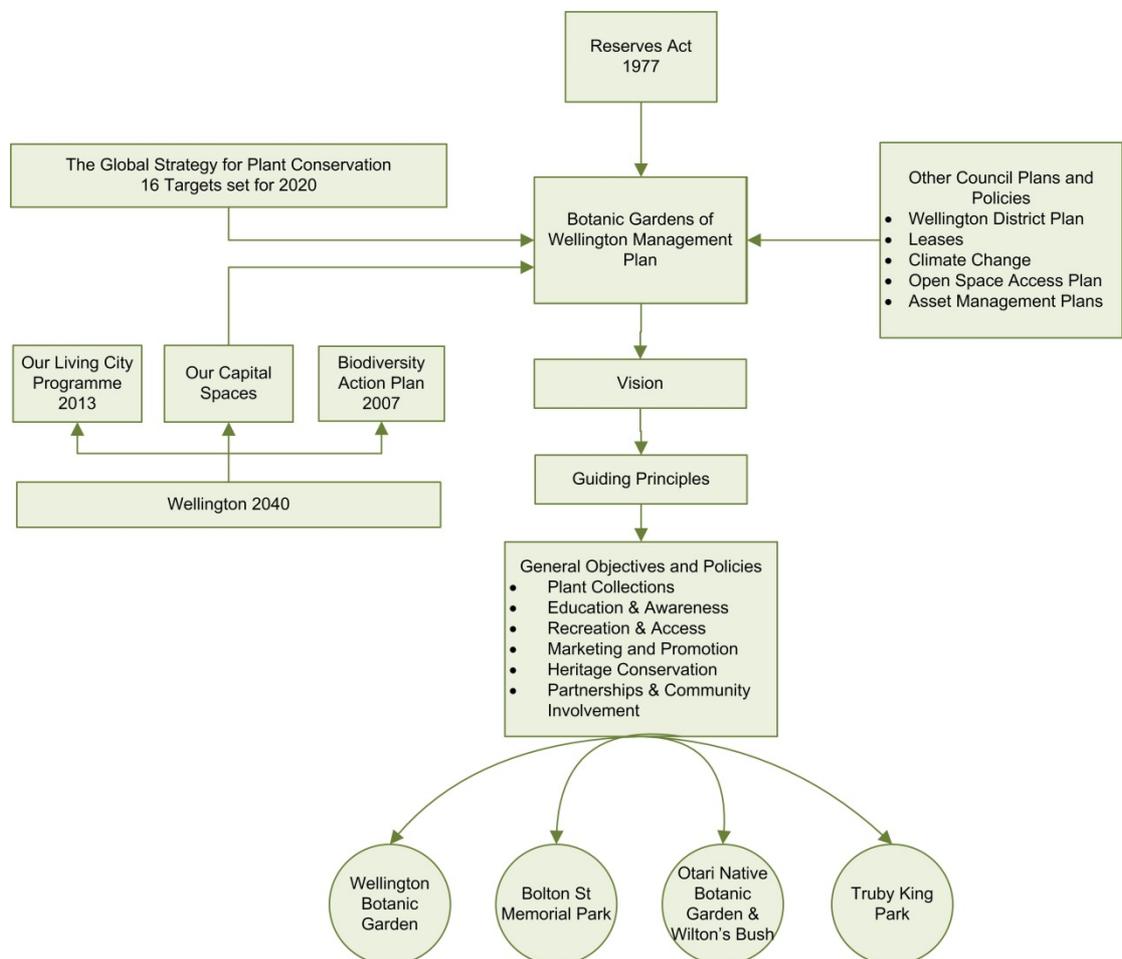
Any review of this plan will be carried out in accordance with the Reserves Act (1977)

1.3 Strategic Framework

Strategic Framework Diagram

There are a number of strategic and regulatory frameworks that guide the management of the Gardens. The diagram below (figure 1) shows where this management plan fits with relevant strategic and regulatory frameworks including Council plans and policies.

Figure 1: Strategic and Regulatory Framework



Global Strategy for Plant Conservation (GSPC)

The GSPC is an international framework aimed at stopping the loss of plant diversity by working locally, nationally and globally. Through 16 targets it encourages the greater awareness and understanding of the importance of plants, their conservation needs and sustainable use.

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Botanic gardens need to retain a core focus on plants, education and conservation. They can do this whilst working towards the targets in the GSPC.

The Gardens' level of involvement varies between the targets and can be categorised into 4 levels;

- Active participatory role – where the Gardens will endeavour to fully contribute to the target as resources permit.
- Management and protection role – where the Gardens will manage and protect the plants and their environment on the lands covered under this management plan.
- Partnership and advisory role- where the Gardens will continue to work with and support others to contribute to the target.
- Support in principle – where the Gardens support the target but the level of contribution is minimal because the target is not applicable to the Gardens.

The table below outlines the Gardens involvement with each target. A full description is provided in appendix 3.

Garden Role / level of involvement	GSPC Targets
An active participatory role	<ul style="list-style-type: none"> • Target 8 which is about the development and use of ex situ collections in species recovery programmes. • Target 3 and 14 which are aimed at raising the awareness of the importance of plant diversity and sharing knowledge, understanding and information about plant diversity.
Management and Protection Role	Targets 10 and 12 which focus on managing important areas of plant diversity and harvesting and collecting wild sourced plants.
Partnership and advisory role	<ul style="list-style-type: none"> • Targets 1,2, 4 and 7 which focus on research, documentation and in situ conservation • Target 13 looks at local and indigenous knowledge • Targets 15 and 16 are aimed at addressing the need for capacity building and networking for enhanced plant diversity conservation.

Support in principle

Targets 5, 6, 9 and 11

Target 5 includes NZ Plant Conservation Network's Important Plant Areas and Landcare Research "Naturally Uncommon Ecosystems".

Target 11 includes requests from overseas for NZ plants.

Wellington Towards 2040: Smart Capital (2011)

Wellington City Council's vision is focused on the future development of the city over the next 30 years. It builds on Wellington's current strengths, acknowledges the challenges the city faces now and over the medium to long term, understands the changing role of cities, and is informed by Wellington's communities. The vision is supported by four community outcomes based on the city's competitive advantage. These are: eco-city; connected city; people-centred city and dynamic central city. These goals are central to the Council's Long Term Plan 2012–2022.

Our Living City Programme

"Our Living City" programme is about achieving the Wellington Towards 2040: Smart Capital vision and aims to; enhance and showcase our natural resources, transform our economy and reduce our environmental footprint/impact and show leadership.

To achieve these goals Our Living City actions include engaging with the community, sharing stories, aligning Council policies and programmes and growing partnerships. The actions most relevant to the Gardens are making sure policies and programmes **support urban nature connections** and **creating partnerships** to grow Wellington's reputation as a **leader in ecological sustainability**.

Our Capital Spaces – Open Space and Recreation Framework

Our Capital Spaces is a plan for managing and protecting our parks, reserves, sport and recreation facilities and associated activities over the next 10 years. This plan replaces and updates both the Wellington City Council's Capital Spaces Strategy (1998) and Recreation Strategy (2003).

There are a range of initiatives that fall under the following outcomes:

- Getting everyone active and healthy
- Protecting our birds, nature, streams and landscapes
- Contributing to Wellington's outstanding quality of life
- Doing it together.

The Plan will focus on the following priorities and key actions:

Outcome 3 – Contributing to Wellington's outstanding quality of life

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PRIORITIES	ACTIONS
3.1 Our natural attractions showcase our environment and conservation values	3.1.1 Otari-Wilton's Bush, Wellington Botanic Garden, Outer Green Belt, Wellington Town Belt, Skyline Walkway, Zealandia and Wellington Zoo continue to showcase Wellington as an eco-city

Biodiversity Action Plan 2007

The Biodiversity Action Plan coordinates the Council's biodiversity activities and identifies local priorities and actions for biodiversity. Biodiversity activities include pest control, revegetation planting, and partnerships with other organisations and groups.

The outcomes of the plan include:

- identifying the current state of Wellington's biodiversity and the areas/species that require the most protection
- protecting Wellington's indigenous biodiversity on public and private land
- motivating the community to become more involved in biodiversity conservation
- working closely with other organisations to ensure the conservation of Wellington's biodiversity
- restoring our indigenous biodiversity where possible and ensuring it is easily accessible for all Wellingtonians
- generating quality information through monitoring and research to enable us to conserve and manage our biodiversity into the future.

1.4 Legislative Context for the Botanic Gardens of Wellington

Reserves Act 1977

This management plan has been prepared under the provisions of the Reserves Act 1977 ("the Act"). Reserve management plans are required under the Act in order that Wellington City Council can outline its intentions for the use, enjoyment, maintenance, protection and preservation of its parks and reserves. The aim of this legislation is to ensure that reserve management and development is based on sound principles, and that there are adequate controls for the purpose of the reserve. Section 41 of the Act sets out the purpose and procedure for preparing a Reserve Management Plan:

"The Management Plan shall provide for and ensure the use, enjoyment, maintenance, protection and preservation, as the case may require, and, to the extent that the administering body's resources permit, the development, as appropriate, of the Reserve for the purpose for which it is classified ..."

The Act also states that management plans shall be kept under continuous review so that the plans are adapted to changing circumstances or in accordance to increased knowledge.

Historic Places Act 1993³

The Historic Places Act 1993 established the New Zealand Historic Places Trust, which is responsible for administering the functions of heritage protection in New Zealand.

The legislation is to promote the identification, protection, preservation and conservation of the historic and cultural heritage of New Zealand.

The Act also sets out provision for registering places of interest on a national register.

Burials and Cremations Act 1964

The Act covers the establishment, maintenance and regulation of cemeteries, burial grounds, cremation, closing of cemeteries, general provisions, offences and regulations.

The Act does not apply to Māori owned burial grounds. Councils can make bylaws and have specific requirements for record keeping and managing burials.

Other Key Guiding Policies and Plans

Council plans that give guidance in managing the Botanic Gardens of Wellington and/or in developing the policies in this plan are listed below.

Wellington District Plan

This is the Council's principal regulatory document setting out objectives and policies, methods and rules for managing the city environment, land uses and associated activities. The Wellington City District Plan is prepared in accordance with the Resource Management Act 1991.

The District Plan zonings for each of the Gardens are as follows:

Wellington Botanic Garden – Open Space C (Inner Town Belt)

Anderson Park – Open Space A (Recreation Facilities)

Bolton Street Memorial Park – Open Space B (Natural Environment) above the motorway and Open Space A below the motorway.

Otari Wilton's Bush – Conservation Site except for the collections area (Open Space A) and part of the Kaiwharawhara Stream (Open Space B).

Truby King Park – Part zoned Open Space B, part zoned Outer Residential

Leases Policy for Community and Recreation Groups (2012)

The Council provides leases of land and/or buildings at a subsidised rental to a wide range of community and recreation groups (groups). As Council-owned land and buildings are a limited resource, the Council needs to allocate this resource in a way that maximises the use of its assets and responds to changing demands.

The Leases Policy for Community and Recreation Groups (policy) sets out the Council's role in leasing land and/or buildings to groups and provides guidance on:

³ The Heritage New Zealand Pouhere Taonga Bill is currently before the House. The Bill includes provisions that will result in some changes to how NZHPT operates and to archaeological provisions of the HPA.

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- granting leases of land and/or buildings to community and recreation groups
- managing leases relating to the groups
- the standard to which land and/or buildings will be maintained to ensure appropriate asset management.

The objectives of the policy are to:

- ensure maximum community benefit is derived from Council-owned land and buildings
- strengthen participation and engagement in community and recreational activities
- ensure leases are managed fairly, processes are transparent and Council staff have the flexibility to respond to community needs.

The policy applies to all community and recreation groups that lease Council-owned land and/or buildings. There is one lease covered by this policy in the Gardens:

- **Salamanca Tennis Club** which owns and managed two outdoor tennis courts and a club building in the Wellington Botanic Garden on Salamanca Road
- **Collegians Cricket Club** who lease the upper floor of the Anderson Park Pavilion

Open Space Access Plan (2008)

This plan sets out the Council's strategic vision for tracks in the city's parks, reserves and open spaces. The plan's vision is to strengthen and improve the open-space access network by:

- providing outstanding opportunities for recreation and tourism within the open spaces of Wellington
- ensuring tracks provide for a range of user interests, skills, abilities and fitness levels within each area
- achieving a quality primary network accessing major destination points in Wellington and adjoining districts, and linking with an equitable distribution of secondary and local track networks and recreational facilities.

The Plan outlines areas that are closed to mountain bikes including Wellington Botanic Garden, Otari Wilton's Bush and Bolton Street Memorial apart from the designated route between Upland Road and Salamanca Road through the Wellington Botanic Garden. The sealed driveways at Truby King Park are also open to bikes.

2 General Management Framework.

The overall vision for the Botanic Gardens of Wellington is;

Internationally recognised nature based and cultural visitor attractions that show case Wellington as an eco-city

2.1 Management Framework Summary

The management framework sets out how the gardens will be managed and guide decisions on future projects, programmes, development, and activities across the four gardens.

1. The vision identifies what we will focus on over the next 10 years.
2. The guiding principles reflect the common values shared across the gardens and the community.
3. The General Garden objectives will help us achieve the overall vision and are based around six key themes; plant collections, learning experiences (education and awareness), recreation and visitor use, cultural and natural heritage, partnerships and community involvement and marketing and promotion.
4. Each garden has its own special unique characteristics and contributes to the overall vision.

2.2 Guiding Principles

Guiding principles summarise common values shared by an organisation or a group of people for a collective purpose. They help establish priorities and guide decision making.

Our Botanic Gardens of Wellington are about;

The importance of plants

The gardens are places where the emphasis is on plants, their diversity, value, use and conservation and our dependence on them

Sharing our knowledge

The gardens are places where information and knowledge about plants, conservation, horticulture, Maori and European heritage and sustainable environment management is shared.

Attracting and engaging visitors

The gardens are a 'must see and do' visitor destination. They will showcase Wellington's natural beauty and environmental leadership.

Being used and accessible by all

The gardens are valued and accessible by the local community for a wide range of outdoor recreation activities and events. They will contribute towards improved health and wellbeing.

Protecting and interpreting our Heritage

The gardens are rich in cultural and natural heritage and together with vegetation and landforms create distinctive garden landscapes. Landscape character and heritage features will be recognised, protected and preserved for future generations. Our stories of the past will be acknowledged and shared.

Working in partnership with mana whenua and the community

This recognises the important role of mana whenua and volunteers and community groups in the ongoing management of the gardens,

Being part of a global network

The gardens need to work with global partners and networks to help achieve the objectives in the Global Strategy for Plant Conservation (GSPC)

Sustainable management

The gardens will be managed in a sustainable manner to reduce the environmental and social impact of our management activities. We will continue to improve and share our sustainability experiences and knowledge with the community.

3 General Objectives and policies

3.1 Plant Collections

Botanic gardens are institutions with an increasing focus on advocating for and maintaining biodiversity. They are key players in the Global Strategy for Plant Conservation (GSPC) whose aim is to halt the continued loss of plant biodiversity and secure a future where human activities support the diversity of plant life.

There is recognition of their key educational role and increasingly botanic gardens are integrating their values into the visitor experience through their plant collections.

We can define plant collections as

A managed group of plants demonstrating a particular theme. They can be in one place or dispersed throughout the garden and are managed for scientific research, conservation, display and education purposes.

Each garden and their plant collections have a different emphasis:

Wellington Botanic Garden – collections of both native and exotic plants in a heritage landscape.

Otari Wilton's Bush – dedicated solely to native plants

Bolton Street Memorial Park – an historic cemetery with a collection of heritage roses

Truby King Park – an historic house and garden with plants that reflect its unique character and heritage

Objectives

The plant collections within the botanic gardens of Wellington will:

- *Inspire people to value plants, **engage** and **educate** in ways that provoke ideas and facilitate behaviour change⁴,*
- *enhance the garden environment and landscape*
- *contribute to ex situ conservation of threatened plant species⁵, and*
- *be well managed and documented*

3.1.1 Policy - Inspire, engage, and educate

- Collections will be managed and developed in ways that inspire, raise interest and tell stories about plants and biodiversity.

Traditional botanic gardens managed and arranged collections of plants primarily for research purposes. These plants were often set out in taxonomic collections with collections of related plants together with little focus on interpretation and education. In order to raise awareness and provoke behaviour change toward plants, plant

⁴ Linked to Policies in chapter 3.2 Education and Awareness

⁵ Linked to target 8 of the Global Strategy for Plant Conservation – *At least 75% of known threatened species in ex situ collections, preferably in the country of origin, and at least 20% available for recovery and restoration programmes.*

collections need to be used as tools to tell stories about plants and biodiversity. We discuss the links between plant collections and learning and awareness in chapter 3.2.

3.1.2 Policy - Enhance the garden environment and landscape

- Collections will be developed and managed to contribute to the wider landscape and the beauty of each garden

The collections need to be seen as part of a unique and seamless garden experience with each collection being an integral part of, and contributing to the wider landscape and beauty of the garden. This may mean that some collections will need to be dispersed to enhance the wider garden landscape rather than grouped together as one collection. Plant use and placement will need to recognise the unique character of each garden. Good design will not only integrate the collection into the landscape but will contribute towards interpreting plants.

3.1.3 Policy - Ex situ conservation of threatened plants

The plant collections of the Botanic Gardens of Wellington will;

- educate visitors about why plants become threatened and what we can do about it. They will demonstrate and encourage the use of threatened plants in public parks and private gardens
- act as ex-situ “insurance” populations of threatened plants. Either from authorised ‘wild source’ provenance or from using cultivated plants as source material to propagate plants that can be planted back into the wild to support and increase wild (in situ) populations.
- be used to gather and record information about the propagation and cultivation requirements of threatened plants

Wellington Botanic Garden and Otari Wiltons Bush contain many plants that are threatened in the wild. Botanic gardens generally have plants that are threatened in the wild but exotic to that country – for instance *Pinus radiata* and *Cupressus macrocarpa*, two commonly planted trees in Wellington Botanic Garden are threatened in their native California.

Otari Wilton’s Bush in particular contains around 40% of New Zealand’s threatened plants. It works closely with partners such as the Department of Conservation, Greater Wellington Regional Council and the NZ Plant Conservation Network to provide plant material for planting back into the wild as part of national recovery programmes.

3.1.4 Policies - Be well managed and documented

- Plant collections will be managed according to a general collections policy for plant collections – this will include but is not limited to record keeping, provenance, labelling and plant naming, deaccession, sharing of plant material, commercial uses, review and monitoring and so on.
- Each collection will have their own specific collection plan including the objectives for the collection, management regime, associated education and/or conservation programmes.
- Plant collections will be reviewed every five years to ensure they contribute collectively and individually to the above objectives
- Plant collections will be managed using Integrated Pest Management Practices

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One of the fundamental differences between a public garden and botanic garden is in the documentation of the plant collections and the policies around their management. The basis of this management in the Botanic Gardens of Wellington is the use of BG Base, an internationally used and accepted database that contains the records and accession⁶ information of each plant in a plant collection. BG Base accessioning is now around two thirds complete for the Botanic Garden and completed for Otari Wilton's Bush with processes for new accessions and de-accessions now well established

In addition one of the major values of botanic garden collections is that the plants are generally of known wild origin. That is the actual location and/or population of the species is known so that plants propagated from these plants can be used in species recovery programmes and planted back into the wild. This is of major interest and application at Otari Wilton's Bush.

Since 1996 the Wellington Botanic Garden has been operating using the principles of Integrated Pest Management (IPM).

IPM is a pest and disease control system that combines biological, cultural and chemical methods in a compatible manner to reduce pest populations and maintain them at levels below that which cause economic injury to individual plants and crops. With the variety of plants, pest and ecosystems at the Wellington Botanic Garden a corresponding variety of methods are used. IPM involves monitoring, experimentation and study, and a combination of controls. There is no one system of IPM and it is dependent on taking a long-term view.

Garden management regimes are increasingly greener in their approach both above and below the soil. Synthetic fertilisers have been replaced by environmentally friendly alternatives in the outdoor garden spaces and soil specialists are contacted regularly to assist with holistic recommendations and advice.

As part of the IPM programme Botanic Garden nursery staff have been breeding some predator insects for release on infected plants on a regular and ongoing basis. Other predators/beneficial insects, nematodes, mites etc are purchased/sourced from external suppliers as required.

The result of IPM enables an environment where it is possible for organisms to live in balance, whether natural or contrived, making a significant contribution to sustainable management practices and maintenance of biodiversity.

3.1.5 Policies - Research and education

- The Gardens will work with botanical, research and conservation organisations such as Te Papa, Victoria University, Zealandia and the Zoo to share knowledge and promote the values of plants and the natural environment by:
 - Developing and maintaining relationships with key organisations.
 - Promoting the natural and knowledge-based research resources available at Otari-Wilton's Bush.

⁶ Accession information is the known information on each plant including its name type, and origin

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- Collaborating with conservation organisations in promoting values of New Zealand's flora and participating in joint programmes where appropriate.

Otari-Wilton's Bush and Wellington Botanic Garden function as a research resource for tertiary institutions and specialist organisations (eg conservation and horticultural). The plant collections and forest areas are a resource for horticultural, botanical and ecological studies, as well as for research on traditional uses of plants (eg medicines, weaving). The knowledge of staff is also a significant part of the gardens research role. For example, staff expertise in horticulture and botany means that propagation and cultivation techniques can be developed for plants not usually cultivated. This is particularly important for plant conservation recovery programmes.

3.2 *Education and awareness*

Inspiring people to value and appreciate plant life and conservation is an important function of any Botanic Garden. Effective education and interpretation are essential ingredients for this inspiration. Learning experiences will use the extensive collections of plants within each garden but will also use the gardens as learning spaces to explore the wider plant world and natural environment.

Objectives

- Education and awareness about plant diversity, its role in sustainable livelihoods and importance to all life on earth is promoted⁷
- Learning experiences will emphasise:
 - The importance of plants for people,
 - Plant diversity,
 - Sustainable living
 - Healthy parks, healthy people
 - Our cultural and natural heritage

Education is about building awareness, knowledge, attitudes and skills. These aspects can be developed through a variety of means, from educational programmes and guided walks, to interpretative information. There are also a variety of target audiences for education and awareness programmes; from school and tertiary students, to visitors, and home gardeners. Learning experiences should be carefully targeted to specific audiences. In other words, it is important to clearly identify which stories to tell, how to tell them, and who to tell them to.

Interpretation can add an extra dimension to our appreciation of the places we visit. We see familiar places in a new light when we find out how they used to be, value a plant more when we find that it is rare or has an unexpected use.

For interpretation to be successful, however, it needs to be interesting, easily understood and tell a logical story or series of stories around a site.

Methods of interpretation are changing. The more traditional methods of on site signage and brochures are being replaced to a certain extent with technology. Technology can enable visitors to download up to date information prior to visiting the garden, by using mobile technology and downloadable apps when they arrive. For example, there is now the technology available so that when you enter a space such as a garden it triggers relevant information using field beacons or GPS positioning. This will not replace the more traditional methods but provide the ability to cater for and attract a wider and particularly younger audience and provide a portal to information about plants and the natural environment.

3.2.1 Policies - Interpretation planning

- Interpretation plans shall be prepared and kept under regular review for each garden

⁷ Objective 4 – Global Strategy for Plant Conservation (GSPC)

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- Interpretation plans shall focus on entry points, moments and important places and key sites.

A comprehensive interpretation plan is needed for each garden that tells the unique story of each place. The plan will identify appropriate interpretive themes in detail, set out the techniques to be used and show where on-site interpretation is to be located.

These plans should be closely linked to landscape development planning, visitor demographics and on site circulation and movement.

Interpretation planning should focus on a key hierarchy based on good site specific design:

Entry points: This is where most people enter the garden and can simply be an entrance or an interpretation centre. There could be one or more main entry points and several secondary or minor entrances. Entry points should include:

- Comprehensive way-finding information including maps
- Interpretation at major entry points especially if the entry point is associated with an Information/ Interpretation Centre, such as the chapel at Bolton Street Memorial Park

Moments and important places: These are important places that form a natural place to stop or are spaces between areas. For instance where a view opens up or where one activity transitions into another, such as the Cockayne Lookout, the Henry Moore sculpture, the view from the Herb Garden and so on. These are often decision points where directional signage is needed. They can also be key points where interpretation can help explain the moment.

Sites: These are places where most interpretive detail is delivered. They can act as a repository of different types of information such as the website, Cockayne Centre, Treehouse, or a specific plant collection. They can also be places where there is a specific story to tell, for instance the native forest remnants in the Wellington Botanic Garden, the Kaiwharawhara Stream at Otari Wilton's Bush or the Mass Grave at Bolton Street Memorial Park.

Sites can also be defined as areas that have specific themes and/or have stories to tell as you move along a trail. For instance the Nature Trail at Otari Wilton's Bush, the Heritage Trail at Bolton Street Memorial Park and the Solander Trail at the Wellington Botanic Garden.

3.2.2 Policy - Education and Awareness themes

- Education and interpretation themes will broadly focus on
 - Plants and People
 - Plant diversity
 - Sustainable living
 - Our cultural and natural heritage

We are aiming to raise peoples' awareness and/or change their attitudes and/or behaviour in the following areas:

- **Plants and People** - The importance of plants to people and the planet across four principal plant services: food, fibre, construction and medicine

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- **Plant diversity** – The rich biodiversity of plant life and the importance of conserving it.
- **Sustainable living** –Using sustainable gardening and management practices in the Gardens as a benchmark to develop a resilient city.
- **Healthy Gardens Healthy People** – Getting people more active more often through use of the gardens for physical activity. This includes initiatives such as green prescription programmes where people are prescribed exercise programmes through the health system to improve personal health and wellbeing
- **Our cultural and natural heritage** – the significance of the gardens and their role in connecting the Maori and colonial history of Wellington as well as connecting with the contemporary multicultural population.

3.2.3 Policies - Programme delivery

- Education programmes will be developed and implemented in liaison with other regional nature based attractions and programmes including Zealandia and the Zoo.
- The gardens shall participate in the regional Nature Connections Project
- Education programmes, including interpretation, will be delivered in a variety of ways to cater for the diverse needs of visitors.
- Self-guiding brochures shall be available on line and in hard copy to the public at no charge.
- Added value interpretation and/or education programmes may incur charges to defray costs
- Support for the guided walks led by volunteers will continue and be enhanced.
- Primary and secondary school resources and education programmes will link with school curriculum guidelines.
- Delivery of on-site education services and programmes will be a mix of self-directed learning and onsite support and delivery
- Mana Whenua shall be invited to have input to and involvement in all education and interpretation programmes.
- Resource the delivery and coordination of educational and interpretive activities and programmes in particular those from the proposed Children's Garden.

Traditionally, information has been provided by such means as on site signage, brochures and guide books. New mobile and web based tools are enabling a wider range of options to provide information and interpretation both on site and off site prior to a visit. Messages will be told by providing a variety of learning experiences across the cluster through;

- Onsite interpretation - signage, brochures, self-guided walks etc
- Use of digital media /online information and web experiences/ wireless coverage etc
- Organised talks and programmes/ demonstrations.
- Using experts including gardeners/curators /volunteers in promoting education awareness and our key messages

The Gardens will also participate on regional and national programmes in particular the **Nature Connections Project**.

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The Botanic Garden and Otari have an opportunity to work more closely with the Zoo and Zealandia who are lead partners in seeking programme assistance from the Wellington Regional Amenities Fund. The fund has assisted with creating improved experiences across the region's visitor attractions through consistent staff training and interpretation resources. As this is a regional fund its ability to support all the regions attractions is limited but the Botanic Garden and Otari will seek to be part of the programme in support of their contribution to Wellington as an Ecocity and their regional and national roles.

The opportunity for visitors to have a guided walk and/or tour of the gardens, either one garden or a combination, with experienced and knowledgeable guides is also an important service of any visitor attraction facility. The guided walks of each of the gardens are coordinated and organised by volunteer groups such as the Friends of the Wellington Botanic Garden, Otari Wilton's Bush Trust and the Friends of Bolton Street Memorial Park, with the support of Council.

3.2.4 Policies - Capacity building

- The gardens will support apprenticeships and internships of both national and international students in particular based at Otari Wilton's Bush
- The gardens will work in conjunction with Botanic Gardens Australia New Zealand (BGANZ) to help build capacity within the Pacific Island botanic garden community.
- The Gardens will build the capacity of residents to garden sustainably in private or community gardens.

The gardens have an important role in developing skills and expertise in house as part of a wider apprenticeship programme. They can also provide experience for overseas students as part of short term internship programmes that facilitate exchanges of ideas and improve relationships between the botanic gardens and overseas gardens.

The Gardens encourage capacity building for local communities through volunteer programmes. The Children's Garden as a catalyst for learning and action will contribute towards community capacity building.

There is an opportunity, especially as a capital city garden, to foster capacity building for Pacific Island botanic gardens. This will enable through vocational training to develop and reinforce skills in horticulture, garden management and conservation. It will empower them to lead conservation, especially for in situ and ex situ plant populations, and to develop the resources to support their communities in conserving threatened species and ecosystem restoration. This will enable Pacific gardens to address GSPC targets 7,8,14 and 15. The physical and people resources are available at the Botanic Garden and Otari but external funding will be required to support such a programme. Initial discussions with Honiara Botanic garden and the proposed botanic garden at Hofua in Tonga have shown that there is a need and desire for this type of training.

Regional capacity building is also a focus of activity for the Botanic Gardens of New Zealand and Australia (BGANZ) on behalf of BGCI.

3.2.5 Policies- Reference libraries

- A reference library will be maintained at both Wellington Botanic Garden and Otari Wilton's Bush for use primarily by staff, volunteers, and Friends of

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Wellington Botanic Garden and Otari-Wilton's Bush Trust members. On application the public may use either for reading and research.

- Enhance both reference libraries by recording and documenting all resources in BG base.
- Make books and learning resources available to the public as part of education and interpretation programmes based in the visitor centres in each Garden.

The reference libraries at both the Wellington Botanic Garden and Otari Wilton's Bush are catalogued in the BG base library model. Both spaces will become portals for online information on regional and national plant collection databases. They provide important information for staff working at each garden as well as interested researchers and volunteers who benefit from having access to technical information on plants and gardens.

3.2.6 Implementation

Theme	Action
	<ul style="list-style-type: none">• Prepare interpretation plans for each Garden• Participate in the Nature Connections Project• Investigate alternative forms of technology based advisory information with an emphasis on:<ul style="list-style-type: none">○ On site apps○ Web based plant collection information links available on and off site• Work with Botanic Gardens Australia Zealand to develop and fund a capacity building project with Pacific gardens

3.3 Recreation and Visitor Use

The essence of being a highly regarded visitor attraction and recreation resource is ensuring that the garden environment is developed and maintained at a high level and meets the expectations of all our visitors and users.

People visit the gardens for a diverse range of reasons, whether it's for personal enjoyment and recreation or attending or organising an event.

Our role is to ensure the gardens are available for all Wellingtonians and visitors to use and enjoy, understand and enhance the visitor experience and sense of place of the Gardens, provide the best possible facilities and services, apply good design and maintenance standards and ensure a welcoming and friendly environment.

We value all our visitors and users and will strive to be aware and responsive to their needs in an environmentally sustainable manner.

Objectives

To provide high quality garden environments for the enjoyment of all visitors and users by;

- Enhancing the visitor experience and sense of place of each garden
- Having a high standard of design and presentation
- Providing quality visitor facilities and services
- Enabling access and enjoyment for all
- Encouraging and catering for casual use of the Gardens
- Manage events and organised activities in a sustainable manner.

The Gardens are used for a diverse range of events and activities. The events and activities can be divided into the following categories.

- Casual visitor use and activities. This includes the casual garden visitors/ users who are visiting the gardens for their personal activities, for example, going for a stroll through the gardens, viewing plants or heritage features, walking the dog, walking to work, going for a lunch time run, having a picnic, playing informal sports, visiting the playground, or just enjoying time out with friends and family. These can either be regular local visitors or first time tourists.
- Garden events and activities. These public events and activities are organised by the Gardens to inspire, educate and raise the profile of the Gardens and all they have to offer. Such events and activities include the annual Spring Festival; Meet the Curator series, Otari Plant Sale, the Truby King Open Day, and guided walks and tours. Garden events and activities complement casual use of the gardens and add to the visitor experience and enjoyment.
- Public events. These are public community events organised by the Council or an external group. Events include the summer city concert series and other concerts, art and craft exhibitions and community markets/fairs etc. Public events and exhibitions bring a diverse range of people and vibrancy to the Gardens. These are managed activities under the Rules for Use and Development (Chapter 8)

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- Personal events and organised activities. These include individuals or organisations that are using an area or space within the gardens for their own personal one off event or activity. For example, corporate meetings or workshops, corporate or group picnics, team building activities, wedding ceremonies, celebrations and photography. These organised events and activities do not have exclusive use of a particular area but booking is required to avoid conflicts in use and minimise any disruption to other garden visitors. Many groups and organisations are not aware that they need to book to use the Gardens for a personal organised event or activity.
- Formal sports and activities. The sports ground at Anderson Park provides for formal sporting activities such as cricket, soccer and touch rugby.
- Commercial use and activities (concessions). There are two kinds of potential commercial activities for the Gardens, those that add to the service provided by the Gardens (reserves) e.g. Botanic Garden Cafe and those that capitalise on the products of the gardens (reserves) e.g. Commercial nurseries harvesting seed. This is a managed activity under the Rules for Use and Development.

3.3.1 Policies - Enhancing the visitor experience and sense of place for each garden

- Recognise and enhance the sense of place of each garden.
- Carefully planned experiences that create anticipation and surprise will be developed in each garden
- Staff and volunteers will be trained to be ambassadors for the gardens and provide information in the gardens, their activities and programmes.

3.3.2 Policies – Having a high standard of design and presentation

- Incorporate and maintain a high standard of design which balances diversity, unity and continuity.
- Each garden to maintain a recognisable design style and maximise the natural qualities of its setting.
- All signs will be designed and located to complement and enhance the garden environment and visitor experience.
- Signage within the gardens will be restricted to those needed for direction, interpretation, acknowledgment, and promotion of the Garden and its events and programmes.
- Development for garden purposes will be sensitively designed and implemented to protect the landscape and open space values of the gardens.
- Standards of presentation and maintenance will be appropriate to a national visitor attraction
- Utility services and operations where practicable will be screened from public view, except when the service or operation can support environmental education and sustainability messages. (Refer to Rules for Use and Development Chapter 8)

3.3.3 Policies - Providing quality visitor facilities and services

Entrances

- A hierarchy of entrances shall be determined for each garden and categorised into main, secondary and minor entrances.
- Clear Garden entry signs will be provided at all main entrances and clear directional signage provided on the roading network.

Orientation and circulation

- Each garden will maintain a diverse and hierarchical network of paths and tracks that enable visitors and users to fully explore and circulate around the gardens and their main attractions.
- Each garden will provide a clear and easily understood circulation system (path and track network) by;
 - Providing clear maps of each Garden at all main entrance, which show the path and track network, main attractions and visitor facilities.
 - Providing orientation and way finding signage appropriate to the level of path use and garden character.
 - Using a simple path and track naming and identification system.
 - Accurately mapped and interpreted and this information will be freely available to the community.
- All paths and tracks will be physically sustainable and have minimal environmental impact, as far as possible.
- Paths and tracks will be designed and maintained to defined standards in the Open space access plan, with significant hazards identified and /or mitigated.
- The path and track networks of the gardens will link into the wider city open space access network.
- Before any new paths or tracks are created or existing tracks and paths upgraded and or realigned, full consideration must be given to ;
 - User demand
 - Environmental impact
 - Improvement to the visitor experience
 - Track function (e.g. education, heritage appreciation)
 - Any risks

Toilet facilities/ Public Conveniences

- Council shall maintain all toilets in the gardens in a clean and hygienic state in keeping with the expectations of the users of the gardens.
- The direction and location of existing public toilets will be clearly sign posted within each garden and identified on maps and map boards.
- Clean, well maintained public toilets that are accessible, safe and strategically located are an important part of a visitor attraction facility.

Visitor Information Facilities

- The current provision of Visitor Information facilities in the Gardens shall be supported and maintained.
- The role of the Tree House Visitor Centre at the Wellington Botanic Garden is to provide a focus and venue for education in the Botanic Garden as well as information about all four gardens, promote all four gardens and their features, and coordinate a gardens' events calendar and a booking service.
- The Begonia House in the Botanic Garden shall be used as a secondary exhibition display area.
- Te Marae o Tane is the main public facility at Otari Wilton's Bush providing a range of visitor services and information.
- The Cockayne Centre has been developed from the ex-curator's residence and will be developed as a resource centre.
- The role of the Bolton Street Cemetery Chapel is to provide information about the cemetery and display burial records.
- There shall be no provision for a formal visitor information centre at Truby King Park, given the level of use.

Visitor information facilities are a vital part of the visitor experience. They provide a central point for the dissemination of information and provide a positive experience for tourists by providing them with information about the gardens and what's on offer. Across the garden cluster there are five facilities that offer visitor information. It's important to understand the role of each facility so that the appropriate information, level of assistance and service is provided in a consistent and coordinated approach.

3.3.4 Other visitor facilities - shelters, seating, and picnic areas, tables and barbeques.

- Facilities that provide for visitor comfort and enjoyment of the Gardens shall be provided, taking into account user demand and their environmental impact.
- Any new facilities including outdoor furniture shall be designed and detailed so that they are visually integrated with the heritage and landscape character of the particular garden setting.
- Visitor facilities such as seating, shelters, picnic areas, rubbish bins and barbeques are an important part of enhancing the visitor experience. As a general rule, buildings and structures within the gardens are to be kept to a minimum. However visitor facilities may be provided for visitor comfort or to enhance the visitor enjoyment.

3.3.5 Policies - Enabling access and enjoyment to all

- Public entry to the four Gardens shall be free of charge.
- Support and promote the different transport options available to get to the gardens, including car, bus, walking and cable car options.
- Ensure information on how to get to the gardens is easily accessible and promoted.
- Promote areas which are wheelchair and push chair friendly.
- Extend opportunities for people with disabilities and limited mobility, push chairs and wheelchairs to enjoy as much of the Gardens as practicable.
- Public access to part or whole of the Gardens may be restricted for management purposes.

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The Gardens should be available for all Wellingtonians and visitors to experience and enjoy free of charge. It's important that our visitors can find their way to the gardens either by using public transport, car or by walking, and any transport difficulties to the gardens are mitigated.

The gardens with their higher levels of service and standards are places that can target and cater for the recreational needs of specialist groups which may not be reasonably practicable to do so in other parts of the network, for example, the aged, people with disabilities, wheelchairs and prams. Efforts have been made to make the gardens more accessible for all but there is room to further extend these opportunities, while still accommodating for a diverse range users and abilities.

3.3.6 Policies - Encouraging and catering for casual visitor use

- Casual visitor experiences in the gardens are safe, enjoyable and informative.
- Provide informal recreation spaces and picnic areas in a variety of settings for people to enjoy time out with friends and family explore nature and learn in a safe environment.
- A range of pedestrian experiences will be offered throughout the Gardens, from short circular interpretative walks such as around the Lady Norwood Rose Garden and Begonia House to more rugged routes of the yellow, blue and red trails at Otari Wilton's Bush.

Dog walking

- Dog exercise areas and off leash areas are not provided in the gardens.
- For dog activities and control refer to the Rules on Use and Development (Chapter 8)

The Council recognises and supports that local residents walking their dogs is a popular recreational activity and permits dogs in the gardens providing that they are kept on a leash and controlled by their owners or responsible accompanying person.

Bicycles

- In accordance with Council's Open Space Access plan 2008, all walkways and tracks in the gardens are closed to mountain biking/cycling except the following areas;
 - The formed roadway in Truby King Park
 - The designated cycle lane from Upland Road through the MetService land to Salamanca Road

The gardens are places where bikes are not suitable because of intensity and range of public use and the potential conflict between bikers and walkers. In addition many of the steep bush and tramping tracks at Otari Wilton's bush and through the forest remnants at the Botanic Garden are unsuitable for bikes.

3.3.7 Policies - Managing events and organised activities

- A diverse range of both indoor and outdoor event venues and sites throughout the Gardens will be provided.
- The venues and sites suitable for events and organised activities are identified in the individual Garden sector plans.

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- Events and organised activities shall be encouraged to occur in specific sites of the Gardens, providing the event and activity is compatible with the garden setting.
- Preference will be given to horticultural, cultural and educational activities and those that complement and promote the Gardens.
- The impact of large crowds on event venues and sites and the adequacy of facilities at events shall be monitored, and measures to protect vulnerable areas or redirect heavy use introduced where necessary.
- Further promote Garden event venues and sites and the booking process.

3.4 Cultural and Natural Heritage

We can define heritage as “aspects of the natural and cultural environment that are inherited from the past, that provide a context for the present and that shape the future. Heritage provides the community with a sense of continuity and the ability to identify with their City through evidence of its past in the existing environment.”

Natural and cultural heritage is very much interwoven within the gardens, and the distinction between the two is not always clear. For instance, native bird species are part of our natural heritage but have come to depend upon exotic as well as native plants for food.

In the context of this plan, natural heritage focuses on significant components of indigenous and native ecosystems. Cultural heritage includes the built, planted and introduced features which are of historical, social, aesthetic or scientific significance within the Gardens. It should be noted that these are places that, by their very nature, change over time as plants grow and conditions such as micro-climates change. Conservation, as distinct from preservation, allows for them to evolve within the framework and spirit of the past.

All of the gardens are listed as Heritage Areas in the Wellington City District Plan with Wellington Botanic Garden, Bolton Street Memorial Park and Truby King Park also registered as historic areas under the Historic Places Act 1993.

Objectives - Cultural Heritage

Significant historical and cultural features and values of the gardens are identified, managed and protected.

Appreciation of the cultural heritage of the gardens is enhanced through research and interpretation.

3.4.1 Policies - Recognition and protection

- Consultation with the New Zealand Historic Places Trust and mana whenua will be an important part of managing historic and traditional sites and wāhi tapu (sacred sites) within the gardens.
- The gardens will be protected and managed in a manner reflecting their value and significance, in consultation with any directly affected groups or individuals.
- Where possible, proposed works will avoid recorded archaeological sites. Where avoidance of recorded sites is not possible, authority shall be sought from the New Zealand Historic Places Trust before any work is carried out. In areas of high archaeological potential, when there is reasonable cause to suspect that an archaeological site (recorded or for the discovery of unrecorded sites) may be damaged, modified or destroyed by any activity, an archaeological authority shall be applied for from the New Zealand Historic Places Trust in accordance with the Historic Places Act (1993).
- Wherever possible, Māori place names will be used, on signs and maps, plant labels and interpretation.
- Any activity occurring on or near the “Sites of Significance to mana whenua or other Maori” listed in the District Plan shall be discussed with mana whenua before the activity starts.
- Interpretation of these significant sites will be carried out in partnership with mana whenua.

3.4.2 Policy - Research

- Record and disseminate Māori and European historical information about the gardens. This may include conducting archaeological surveys as changes are proposed in the landscape.

3.4.3 Policies - Heritage interpretation

- Work with mana whenua, community and friends groups and historical societies to identify, assess and interpret important heritage sites.

Objectives - Landscape Character

The essential qualities and characteristics of the landscape character of each garden are maintained and enhanced

Long-term vegetation change is managed to enhance the variety of functions, activities and experiences the vegetation provides.

3.4.4 Policies

- The vegetation in the gardens, particularly that which is characteristic and which has become an identifiable feature, shall where possible be protected and enhanced, and recognised in replanting programmes.
- All new buildings and structures shall be designed and sited to complement the landscape character of the gardens.

Objectives - Natural Heritage and Ecosystems.

Indigenous biodiversity and indigenous ecosystems in the gardens, including freshwater ecosystems are protected and restored.

3.4.5 Policies -Identifying and planning

- The ecologically important areas for protection will be identified and assessed, taking into account their representativeness, rarity, connectivity or buffering function, diversity, health and special features.
- The important areas for ecological restoration will be identified and prioritised around:
 - improving the ecological connectivity of the gardens and adjacent reserve land
 - enhancing the species diversity
 - improving freshwater habitats and fish passage
 - improving the halo (ecological buffer zone) around Karori Sanctuary (Zealandia).

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- Areas requiring revegetation will be identified and their revegetation planned taking into account the site conditions and the potential for natural regeneration.
- Plant and animal pest threats will be identified and assessed, and their management prioritised in accordance with the relevant policies and priorities in the Council's Pest Management Plan (2004) and current regional pest management plans.
- Restoration, revegetation and pest management programmes will be reviewed and adapted as necessary in response to the results of ongoing monitoring.

3.4.6 Policies – Protection

The Council will protect the gardens native biodiversity, including the biological life in streams, natural water courses and soil, from threats such as pests, fire, earthworks and recreational activities.

- The Council will protect the natural drainage patterns from modification; particularly the structure and flow of streams through storm water management.
- Plant and animal pest management will be carried out in accordance with the relevant policies and priorities set out in the Council's Pest Management Plan (2004).
- Partnerships between the Council, other organisations and adjacent landowners in implementing pest management programmes will be promoted.
- Infrastructure within the gardens, including stormwater management devices, will be managed and, if necessary, redesigned to minimise impacts on the natural environment.
- The garden's environment will be managed to maintain and enhance their ecosystem services, prioritising carbon storage, water quality and biodiversity protection.

3.4.7 Policies - Restoration

- Areas cleared of exotic vegetation and invasive weeds will be revegetated with locally occurring, site appropriate indigenous species through planting and/or enabling natural regeneration.
- Regular follow-up maintenance will be carried out on all areas being revegetated until the new plants have closed over the ground and as required thereafter.
- Enhancement planting will be carried out in native forest areas to diversify the range of indigenous plant species, to provide additional habitat for birds and, where appropriate, to add to the tall tree framework.
- Eco-sourced plants will be used in all restoration planting.
- Fish passage in, to and from streams flowing through the gardens will be enabled.
- The Council will encourage, support and work in partnership with iwi, local communities, businesses and interested groups to develop and implement

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revegetation and restoration programmes in the gardens in accordance with the Biodiversity Action Plan (2007).

- Partnerships will be promoted between the Council and nearby landowners in managing and enhancing vegetation and wildlife corridors connecting with the *native forest in the Botanic Garden and Otari Wilton's Bush*.

3.4.8 Policies - Monitoring, research and education

- The ecology, including plant and animal biodiversity, water quality, weediness and impacts of animal pests of the forest remnants, will be monitored as part of the Council's citywide monitoring programmes, and will include continuing bird monitoring.
- Monitoring will include record-keeping of Council and community-based revegetation and pest control activities.
- Monitoring results will be reported regularly to inform the Council and the public about trends and issues.
- Research and information sharing about the forest remnants, their management and role in the city's urban ecology will be encouraged through partnerships and communication networks involving the Council, research organisations and interested community groups.
- The gardens will be promoted as outdoor ecological classrooms and enable opportunities for on-site learning experiences, such as school activities and interpretative signage.

3.5 Marketing and Promotion

One of the objectives in identifying the Botanic Gardens of Wellington collectively is to market them as a major attraction in the city for both local residents and tourists. The Wellington Botanic Garden is already a very popular destination and there is potential for the other gardens to become more popular with well-planned and targeted promotion. In addition there is the opportunity to market them as part of the wider nature based attractions in Wellington and to work closely with Wellington Zoo and Zealandia as part of an overall ecocity cluster.

The first step is the development of a marketing strategy for the gardens including identifying the different roles each garden plays and in particular the regional and national roles of the Wellington Botanic Garden and Otari Wiltons Bush.

Promotion needs to be considered at three levels:

Eco-city – Working with Positively Wellington Tourism (PWT) and the other nature based attractions to promote Wellington as an eco-city.

Collective – promoting awareness of all four gardens as a complementary group recognising the major role played by the Wellington Botanic Garden and Otari Wilton's Bush.

Separate - at the same time, it is important that the different identity and special points of difference of each garden are clearly publicised so that visitors do not assume that, if they have seen one garden, they have seen them all.

Branding (developing an identity that is easily recognised) will need to be considered in the context of the wider Council branding. This might be done, for instance, by adopting a logo and perhaps a byline for the collective group, and for each garden, to be used consistently in publicity material, in signage within the gardens and a staff uniform

Objectives

The Botanic Gardens of Wellington shall be promoted as major city attractions by:

- implementing a co-ordinated marketing initiative that publicises the special identities, attractions and complementary roles of each Garden with a focus on the regional and national roles of Wellington Botanic Garden and Otari Wilton's Bush.
- maintaining a high standard of service and facilities to encourage repeat visits and promote the reputation of the Botanic Gardens.

Recent visitor surveys⁸ reveal the following:

- Visitors to the Wellington Botanic Garden are primarily from overseas (42%) followed by Wellingtonians (38%), and visitors from other parts of New Zealand (19%). At Otari Wiltons Bush, visitors are primarily from Wellington (82%) followed by overseas (9%) and other parts of Wellington (9%)
- Visitors primarily visit the Botanic Garden for viewing plants (39%) and walking/exercise (20%). Whilst at Otari Wiltons Bush the main activity is

⁸ Otari Wilton's Bush and Wellington Botanic Garden CSQ Review May 2012. Centre for Tourism and Leisure Management, university of South Australia.

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walking/exercise (48%) and either viewing plants (14%) or learning about plants (7%).

- Visitors are primarily women (60 - 63 %) in both gardens.

Eco – city

Wellington is a world leader in fostering co-existence of the built and natural environment, conserving the city’s natural attractions, maintaining biodiversity and expanding environmental awareness. Wellington Zoo, Zealandia and the gardens have their own unique identities but they share a focus on nature, conservation and environmental awareness and appreciation. There are opportunities to expand this collaboration regionally and include other attractions such as Percy’s Reserve in Lower Hutt and Nga manu in Waikanae. This could take the form of:

- Working together on interpretation and awareness programmes such as the Nature Connections Project
- Linked marketing and visitor experience packages as part of a nature based attraction package for Wellington

Identify and profile of Otari Wilton’s Bush

In 2004 a Marketing and Brand Concept Development report was prepared for Otari Wilton’s Bush. This proposed positioning Otari Wilton’s Bush as a national and international destination.

The Report identifies four key steps;

- Gain greater visibility
- Position itself as a lead organisation
- Create visitor and audience targets
- Build a network of national relationships

3.5.1 Implementation

Theme	Action
	<ul style="list-style-type: none"> • Review the development of a recognisable identity or ‘branding’ of the Botanic Gardens of Wellington as a group. • Develop a marketing strategy for the botanic gardens with a focus on adding value to garden visits by increasing visitors focus on education and conservation messages. • Focus on the national profile and role of Otari Wilton’s Bush and Wellington Botanic Garden • Work with Zealandia and Wellington Zoo to showcase and promote Wellington as an eco -city

3.6 Partnerships and community involvement

Objectives

- Work in partnership with mana whenua
- Facilitate and support community involvement in the management of the gardens
- Collaborate with local, regional and national partners to enhance the role of the gardens as nature based attractions

3.6.1 Policies - Mana whenua

- Wellington City Council recognises the significance of the Garden land to mana whenua
- Mana whenua and Wellington City Council agree that to the extent that they are able under the Reserves Act 1977 and the Port Nicholson Block (Taranaki Whānui ki Te Upoko o Te Ika) Claims Settlement Act 2009, and any other relevant legislation or future deed of settlement with Ngāti toa they will have particular regard to the mana whenua view.
- Mana whenua will recognise the role of Wellington City Council on matters relating to governance of the Gardens under the Reserves Act (1977)
- Mana whenua and Wellington City Council will meet annually to review and report on the performance of the management year and proposed work programme for the upcoming year.

The Waitangi Tribunal found that at 1840 the iwi groups that had take raupatu⁹, or rights of conquest over all the lands within the Port Nicholson block were: Te Ātiawa, Ngāti Ruanui, Taranaki, Ngāti Tama and Ngāti Toa Rangatira. However, the Tribunal also found that these iwi each had their own ahi kā¹⁰ over particular areas as follows:

- Te Ātiawa at Te Whanganui ā Tara and parts of the south-west coast
- Taranaki and Ngāti Ruanui at Te Aro
- Ngāti Tama at Kaiwharawhara and environs, and parts of the south-west coast
- Ngāti Toa at parts of the south-west coast

From 1840, when the first New Zealand Company ships began to arrive at Port Nicholson (Wellington), conflict quickly escalated between local Māori (mana whenua) and new settlers. Land inhabited by mana whenua was invalidly 'purchased' by the New Zealand Company and sold to settlers. As settler numbers increased, mana whenua were forcibly displaced and their lands taken – including that area of land now known as the Town Belt.

Following their initial displacement and the subsequent loss of almost all their land, mana whenua struggled to obtain the return of their lands through legal means eg McCleverty Award.

⁹ Take raupatu refers to rights associated with conquest and is described as interests in: "...a wider area in which a group had more general rights by virtue of having participated in the conquest of that area, provided the group had sufficient strength to sustain those rights."

¹⁰ Ahi kā refers to non-contestable rights associated with occupation and is described as interests in:

"...those areas which a group resided on or cultivated, or where it enjoyed the continuing use of the surrounding resources, provided such occupation or use was not successfully challenged by other Māori groups. Ahi kā is used in the report only in respect of those areas where a group had established non-contestable rights..."

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For more than 150 years little progress was made to resolve the grievances of mana whenua and address the historical deprivation they had experienced. This changed in 2003, following the release of the Waitangi Tribunal report *Te Whanganui ā Tara me ōna Takiwā* on the Wellington District. In this report, the Tribunal concluded that serious breaches of the Treaty of Waitangi by the Crown occurred in the Port Nicholson Block, and in particular:

“The Tribunal finds that the Crown, in taking most of the Town Belt land from Māori without their consent or any consultation, and without making any payment, acted in breach of article 2 of the Treaty and failed to respect the rangatiratanga of Māori in and over their land.”

The Tribunal recommended that representatives of these groups enter into negotiation with the Crown to settle these grievances.

Following the publication of the 2003 report, the Crown entered into negotiations with the claimants representing the descendants of tūpuna of Te Ātiawa, Taranaki, Ngāti Ruanui and Ngāti Tama. The Crown mandated claimant collective was named Taranaki Whānui ki te Upoko o te Ika. After six years of negotiation, the Port Nicholson Block (Taranaki Whānui ki te Upoko o te Ika) Claims Settlement Act 2009 came into force on 2 September 2009 following a signing between the Crown and representatives of Taranaki Whānui ki te Upoko o te Ika.

Ngāti Toa Rangatira are in the final stages of the Treaty settlement process. Legislation has been drafted to give effect to aspects of the Deed of Settlement between the Crown and Ngāti Toa Rangatira, signed on 7 December 2011. Part of the redress seeks to acknowledge and compensate Ngāti Toa Rangatira for their exclusion from the Port Nicholson Block reserves (known as the ‘tenths’) which includes the Town Belt Area.

At present, Wellington City Council’s relationship with mana whenua¹¹ is managed through Memoranda of Understanding (MOU’s) with the Port Nicholson Block Settlement Trust and Te Rūnanga o Toa Rangatira Incorporated.

Mana whenua have indicated they wish to be involved in and consulted on management and development of the gardens.

3.6.2 Policies - Friends and community partners

- The active participation by the Friends group in each Garden in the ongoing management, maintenance, development and monitoring of the Gardens shall be encouraged and supported.
 - To provide opportunities for individuals, groups and businesses to be involved in activities in the Gardens, such as habitat restoration; and recreation development, such as tracks; and events.
 - To establish, as appropriate, Memoranda of Understanding (MOUs) with groups that contribute to activities in the Gardens, such as habitat restoration, recreation development, and events.
 - To report regularly to community groups on progress towards key objectives in the Botanic Gardens of Wellington Management Plan
-
- We will support Maori community based groups to practice kaitiakitanga (guardianship), and to use the Gardens for the development of indigenous

¹¹ *Mana whenua* means customary authority exercised by an iwi or hapu in an identified area.

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knowledge and traditional activities, such as raranga (weaving) for the benefit of all.

There has always been public involvement in the management, development and protection of the Gardens. This involvement ranges from the Friends groups who assist with management and support for each Garden through to individual volunteers who provide their expertise and skills for things such as guided tours and hosts. The key garden Friends groups are:

- The Friends of the Wellington Botanic Gardens
- Otari Wilton's Bush Trust
- Friends of Bolton Street Memorial park
- Truby King Park Trust

Each group has a slightly different emphasis and individually and collectively provide wide ranging support to the gardens by:

- Lobbying for adequate resourcing for the ongoing management and development of the Gardens
- Fund raising for activities and projects
- Providing volunteer support and technical expertise for a wide range of activities such as guiding, teaching, hosting, gardening, pest management, and so on.

There is the opportunity to get a wider section of the community involved in the Gardens including urban Maori, ethnic communities and young people.

3.6.3 Policies - Commercial partnerships

- Sponsorship agreements shall be subject to the conditions set out in the Wellington City Council Sponsorship Policy and shall ensure that:
 - The reputation of potential sponsors is not in conflict with the goals of the Botanic Gardens and the particular project;
 - On-site advertising of the sponsorship is discrete and does not compromise the character of the surrounding area(s).
- The potential for funding from grants shall be considered for special projects

The management and maintenance of the Gardens is substantially funded by the Wellington City Council. The current funding policy requires 90% of the costs of running the gardens to be provided through rates with 10% raised through income, user fees and so on.

Funding for large projects and items such as events, education programmes and publications will not always be available, given the Council's other city-wide responsibilities. Alternative funding sources such as grants and sponsorship need to be considered to enable the Council to achieve its objectives despite budget constraints. Various companies and the Lotteries Board, for instance, have sponsored development of the Treehouse. The Duck Pond redevelopment was funded jointly by the Charles Plimmer Bequest, the Friends of the Wellington Botanic

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Gardens and the Wellington City Council. The proposed Children's Garden will be funded from the Charles Plimmer Bequest and private donations and/or grants.

There are two different but complimentary approaches to long term fund raising. Developing a long term fund to use on projects and programmes consistent with this plan or to fund raise for specific projects as they are identified.

3.6.4 Implementation

Theme	Action
	Develop a long term sponsorship/fundraising strategy linked to the key projects in the Implementation Plan.

4 Wellington Botanic Garden (including Anderson Park)

The Wellington Botanic Garden comprises an area of comparatively sheltered, level ground in the valley bottom adjacent to Glenmore Street, backed by steep slopes that rise southeast to exposed ridge tops. The Carter Observatory, Observatory Reserve and Cable Car terminus area are located at the top of the main ridge, overlooking the city. The main ridge descends north to an artificial platform occupied by Anderson Park and the Lady Norwood Rose Garden. Beyond this, the Bolton Street Memorial Park follows a spur, truncated by the Wellington motorway, down to the central city.

The original landforms have been extensively modified in places. Pipitea Stream is now mainly piped underground to make way for Glenmore Street but flows for a short distance through the Wellington Botanic Garden. Anderson Park was formed by levelling part of the main ridge and filling a former gully. The Magpie, Glenmore and Soundshell Lawns were formed in a similar way.

A detailed historical outline is included in Appendix 2.

Soils and climate

Soil types are Paremata silt loam, Korokoro hill soil and Makara hill soil. These are low fertility soils with a high clay content and low pH

Wellington has a cool temperate climate, with persistent, sometimes salt laden winds influenced by the proximity of Cook Strait. Shelter provided by the varied topography and mature pines on the hilltops, especially at the Wellington Botanic Garden, has created microclimates where more species can grow than would be possible on a more uniform and flat site.

Vegetation

At the time of European settlement Te Ahumairangi Hill was densely forested but there was less of this tall forest cover in the area now occupied by the three parks. Coastal broadleaf and/or podocarp broadleaf forest was found mainly in the damper gullies of the Wesleyan Reserve land, and on the south face and parts of the north face of the Magpie Hill/Glenmore slopes. The valley now occupied by Anderson Park was probably also forested as a large matai is known to have been there. The remainder of the reserve land, including the Salamanca slope and cemetery, was clad mainly in tall kanuka / manuka shrubland which, from its height, would have been at least 90 years old.

Although the tall forest species did not survive, significant remnants of the original native forest remain in the Wellington Botanic Garden. Areas of secondary native bush are now regenerating in the gullies at Bolton Street Memorial Park. Both botanic gardens now contain extensive introduced plantings including formal displays and plant collections at the Wellington Botanic Garden and 'old world' semi-naturalised garden plants from the nineteenth century at the Bolton Street Memorial Park. Historic conifers are a dominant feature in both botanic gardens.

4.1 Plant collections

The Wellington Botanic Garden is noted for its wide range of exotic and native collections with an emphasis on seasonal floral displays.

Horticultural plantings/plant collections: There are currently 49 collection areas with the garden clustered into four sectors¹²:

1. Lady Norwood Rose Garden/ Begonia House
2. Main Garden
3. Treehouse Visitor Centre/ Children’s Garden
4. Cable Car/Play Area

Lady Norwood Rose Garden/Begonia House

The 1.21 ha Lady Norwood Rose Garden was opened in 1953 and is regarded as one of New Zealand’s finest rose gardens. It comprises a large collection of modern roses and is, along with the Main Garden one of the most popular parts of the Botanic Garden. The proximity of the Begonia House, Picnic Café, Peace Garden, Herb Garden and the Dell adds to the attraction. Vehicle access from Glenmore Street makes it accessible for tourist buses and visitors who cannot easily access other parts of the garden.

The Begonia House was built in 1960 and the adjacent Peace Garden established. The Lily House was added in 1989. The Begonia House comprises a temperate collection with changing seasonal displays including begonias, a tropical plant section and the adjacent lily pond containing the *Victoria amazonica* lily.

The main collections are outlined below:

Collection	Theme/role
Lady Norwood Rose Garden	Collection of more than 3000 modern roses providing a riot of colour and fragrance
Begonia House - temperate colln	Exhibition of lush foliage and floral exuberance
Begonia House – tropical collection	Lush tropical style experience
Begonia House – Lily pond	Showcasing the Victoria lily
Bolton Street Memorial Park	Heritage plant collections especially heritage rose and hydrangea species that display what the Wellington’s founders would have planted.

¹² Native forest areas and amenity and framework trees are considered as part of the wider natural and cultural landscape of the Garden (See Chapter 4.3).

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Main Garden

This area includes the original 13 acres (5ha) set aside as botanic garden in 1869. The Glenmore Street frontage with the popular massed bedding displays is one of the three main entrances to the Garden. The area functions as a promenade between Glenmore Street and the Duck pond along William Bramley Drive.

The Main Garden has a recognisable style and framework of planting that reflects its origins. It features plantings from all periods of the Garden's development, particularly conifers introduced in the nineteenth century. There are still some of the early framework conifer plantings around the Duckpond but many have been removed over the past twenty years as they became hazardous. Later plantings of Phoenix palms, magnolias and pohutukawas have matured and complement the recent collections. The floral bedding and tulip displays became established in the 1950's and reflect horticultural fashions for public gardens.

More recent plantings and collections have focussed on developing and improving the overall landscape and visitor experience within the garden. They include extending the seasonal interest through increased planting of magnolia species and cultivars and low maintenance ground cover and herbaceous plantings.

In addition there has been a focus on developing themes that link with other activities and programmes in the garden such as floral quilt patterned displays linked to a quilt exhibition. The innovation garden at the grandee entrance focuses on outstanding contemporary planting design.

Collection	Theme/role
Main Garden – Floral Room	Celebrating the spirit and history of the garden by providing a park like landscape that blends the seasonal colour with ornamental trees and shrubs
Main Garden - Duckpond	Tranquil enclosed space with woodland style planting
Camellia gully	A sheltered gully landscaped with camellia species and cultivars that provide stunning autumn and winter displays beneath a canopy of native and deciduous trees.
Dwarf conifer collection	Established display of dwarf conifers illustrating the wide variety of forms and textures
Fern forest garden	Native and exotic fern form, colour and texture in a native forest setting
Fragrant garden	Enclosed highly perfumed garden demonstrating a wide range of scented flowers
Fuchsia collection	Elevated border of fuchsias and spring bulbs providing colour from spring to autumn
Soundshell collections	Elevated perennial bank surrounding Soundshell lawn
Rock gardens	Small plants providing year round interest
Herb Garden	A collection of culinary, domestic, medicinal and Maori (Rongoa) herbs in traditional English style set on a ridgeline

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	offering stunning views across the harbour and city
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Treehouse Visitor Centre/ Children's Garden

This sector is being developed as the learning hub of the garden and provides for an increasing range of groups, schools and students who take part in activities and programmes run through the Treehouse Visitor Centre and proposed Children's Garden. As a key node on the Downhill to Downtown Walk (between the Cable Car and the CBD) it is ideally located to provide learning experiences for tourists and out of town visitors.

The collections in this area support and enhance the education programmes being run through these facilities. (see section 3.2) as well as the key walking routes through the Garden.

Collection	Theme/role
Cacti and succulent collection	Plant shape and form in a garden landscape
Nursery	Propagation and production of indoor and outdoor plants for collections
Threatened species	Why plants become threatened and how we can halt the loss of plant diversity.

Cable Car/Play Area

The Cable Car is the entry point for most overseas visitors to the Garden. Some will go no further than the lookout, Cable Car Museum and Carter Observatory. Others will venture into the Garden along the Downhill to Downtown Walk that links all of the major garden attractions. Along the route between the Cable Car and the Treehouse Visitor Centre are a series of plant collections that provide seasonal interest and learning experiences.

In addition there are a number of options for short walking loops ending up back at the Cable Car. Key collections in this area and along the route to the Treehouse Visitor Centre are:

Collection	Theme/role
Australian garden	A snapshot of Australian plants within a managed landscape
Horseshoe Bend	Peaceful contemplative garden exhibiting strong seasonal variations
Araucaria	Tree collection providing clear linkages with related genera within the SW Pacific basin

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4.1.1 Implementation

Theme	Action
Lady Norwood Rose Garden/Begonia House	<ul style="list-style-type: none"> • Extend the Herb Garden south towards Serpentine Way to develop a space suitable to hire out for special events including weddings • Investigate the development of a War and Victory garden on Remembrance Ridge.
Main Garden sector	<ul style="list-style-type: none"> • Complete restoration of the dwarf conifer area and develop it into a major feature at the Glenmore Street entrance • Develop year round interest in the Camellia garden with new herbaceous plantings. • Develop interpretation for the Fern Forest Garden.
Treehouse Visitor Centre/ Children’s Garden sector	<ul style="list-style-type: none"> • Investigate the potential role and site for a Cacti house within the nursery area • Review planting and interpretation in the Threatened Species garden to better articulate the messages around the pressure on plants and ecosystems. • Review the wider landscape and plant collections between the Play Area and the Duckpond to enhance it with attractive, inspiring, educational themed gardens.
Cable Car/Play Area	<ul style="list-style-type: none"> • Develop a landscape concept plan (soft and hard landscape) for the Cable Car entrance which recognises its status as a major entrance and ensures it encourages visitors to enter and explore • Review the tree framework as part of the concept plan and open up the area by removing poorly performing pohutukawas and the bucket tree.

4.2 Education and Awareness

There is the opportunity for Wellington Botanic Garden to delivery different and complementary messages to Otari Wilton’s Bush with its wider focus on the plant kingdom and the role and uses of plants. This will be highlighted in the Children’s Garden which will focus on people’s dependence on plants for life across four principal plant services: food, fibre, construction and medicine

Key themes will be:

Plants and people.

- An awareness of the importance of plants - Plant diversity, its role in sustainable livelihoods and importance to all life on earth

Our cultural and natural heritage

- History of gardening and garden design
- The evolution of a garden, particularly the oldest Main Garden area: how it used to look and be used, the changing styles of garden fashion still evident today.
- Use and significance of plants to Maori, including the flax collection.
- The stories behind the numerous historic features (see 3.24) including Maori historic sites, the Carter Observatory and Dominion Observatory.

Plant diversity

- The significance and conservation of the native forest remnants.
- The characteristics and recognition of different types of plants.
- The scientific and historic interest of the conifer collection and its significance to exotic forestry in New Zealand.
- The science themes at the Carter Observatory and the Observatory Reserve (see 3.24).

Sustainable living

- Information about the cultivation requirements and techniques for plants suitable for gardens in Wellington.
- Showcasing sustainable practices to stimulate behaviour change
- How to live sustainably - Show models for sustainable living – decide on some showcase projects - recycling, compost, discovery garden, green walls, smart energy and so on based at the children's Garden/Treehouse Nursery hub.

Most of these themes relate closely to the development of plant collections (see 3.3) and the two should be planned together.

The Treehouse: Opening of the Treehouse in 1991 was a major step forward in providing a focus and venue for education in the Botanic Garden. The centre has an information room where displays are exhibited and a classroom / studio available for school visits and adult education. It also contains offices for Garden staff, and a reference library.

The World Wide Fund for Nature (WWF) used to have its offices in the Treehouse and provided teaching sessions in the classroom and surrounding garden. WWF moved out in 2010. This has enabled a review of the ongoing role of the Treehouse and its role as the major visitor centre as well as how it can complement and support the Children's Garden.

The Begonia House will continue to be used as a secondary exhibition display area and visitor information centre given the location and visitor count in the Rose Garden area. Most of this information will be provided through the retail shop.

The nursery, which is adjacent to the Treehouse, is another important teaching venue for demonstrating propagation and displaying special-care plants to schools and other groups. The nursery can provide work experience opportunities for horticulture students. It occupies a sizeable flat area and, in addition to its principal propagation function, has potential to be a display area for plant collections that

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require special care or security from theft such as the cactus collection and pot plants. The nursery glasshouses and shade houses were renewed in 2010 with the glass houses now having better spaces for group tours and learning activities.

The Children's Garden: The Proposed Children's Garden will be located on the slope between Myrtle Path and the Botanic Garden nursery. The site looks over the Treehouse to Te Ahumairangi Hill and is bounded by William Wakefield Way to the East – part of the main pedestrian route through the Botanic Garden.

The garden will provide plant experiences to children, families and the community. It will demonstrate our dependence on plants and the ecosystem services they provide. Children and families will visit the garden and leave knowing that they can make a difference: think global - act local – it will be a catalyst to action.

Throughout it is to have a single recurring theme of people's dependence on plants for life across four principal plant services: food, fibre, construction and medicine.

The Cable Car Entrance: This is the primary tourist entrance but has no landmark features for orientation or New Zealand/Wellington context. Landscape improvements linked to interpretation will improve the experience and encourage tourists to enter and enjoy the Garden.

4.2.1 Policies - Education programmes and events

- The potential to develop workshops, talks and events about traditional Maori use of plants shall be investigated.
- Guided tours conducted by informed staff or volunteers shall be developed and promoted, taking into account the availability of staff and volunteers.

In addition to these education facilities, a series of programme and events have been used to give practical instruction on gardening such as the rose pruning demonstrations and "Gardening Gurus" days. These events have proved popular, reflecting the enormous interest in gardening.

There is also potential to introduce other special events and demonstrations such as lectures and demonstrations on Maori use of plants for dye and medicinal purposes.

Staff and volunteers from the Friends of the Wellington Botanic Gardens, also conduct tours by arrangement particularly on days when there are large numbers of tourists from cruise ships in the Garden.

Although no commercial tours operate officially, some tourist bus operators provide a commentary on an informal basis.

4.2.2 Implementation

Theme	Action
<p>Education and awareness</p>	<ul style="list-style-type: none"> • Develop the Children’s Garden with a single recurring theme of people’s dependence on plants for life across four principal plant services: food, fibre, construction and medicine. • Develop the Treehouse as the major visitor centre providing changing exhibitions about conservation, environmental issues and gardening as well as meeting and community space. • Increase the public role and profile of the nursery in conjunction with the development of the Children’s Garden and associated education programmes. • Develop an integrated interpretive experience from the Cable Car entrance and trail to the Play Area.

4.3 Cultural and Natural heritage

Wellington Botanic Garden is notable for the diversity of its environments, ranging from sheltered gullies and streams, to steep hillsides and exposed hilltops. The native forest remnants and nineteenth century conifer plantings are a dominant element, which provides a framework of vegetation and shelter for the horticultural collections, formal planting beds and lawns. The series of recognisable areas with different scents, smells, micro-climates, wildlife and seasonal changes provide environments which appeal to a wide cross section of the public.

It is important that these qualities are protected while providing for increasing visitor numbers and adapting to new demands. The development of a comprehensive landscape development plan (2002) established an overall direction for future development of this special landscape.

Anderson Park is a sports ground and its open expanse of playing field contrasts with the detailed, planted character of the Botanic Garden. Its landscape character derives principally from the pohutukawas around the north-west and north-east boundaries, eucalyptus around the north boundary and the plantings on the Wesley Road slope to the south-east. In its eastern side redevelopment of the roadway with a pedestrian route with structural planting has created a green link between the Botanic Garden and Bolton Street Memorial Park.

4.3.1 Policies - Historic and Cultural Features

- All historic and cultural features shall be protected and maintained to a high standard. Advice from suitably qualified historians, artisans, and the New Zealand Historic Places Trust shall be sought on issues relating to the conservation of specific features.
- Donated or commissioned artworks shall be sought for predetermined sites, according to specified requirements, in preference to accepting ad hoc donations.
- Donated artwork or proposed cultural projects shall be approved through the process outlined in the Public Art Policy 2012¹³ in consultation with the Botanic Gardens Manager taking into account:
 - whether a suitable site can be found where the proposed feature would be appropriate to the immediate context and setting; and
 - whether the proposed feature contributes to the overall character and cultural associations in the Garden

Wellington Botanic Garden is listed as a Heritage Area in the District Plan and three features are listed specifically as Heritage Buildings or Objects. These are:

- the gazebo in the main garden, 1914;
- the wrought iron main entrance gate and fence at Glenmore Street;
- the overseer's house , 1876, (also classified as category "II" by the New Zealand Historic Places Trust).

The Garden is also registered by the New Zealand Historic Places Trust as an Historic Area.

In order to manage the Garden as a Heritage Area it is necessary to define the features that give it this status so that they can be appropriately maintained and the effects of new developments assessed. These features may include items that, individually, do not warrant heritage listing but which, in combination, tell the story of the Garden's development. They may include specific features such as the Joy Fountain, stables and historic potting sheds, typical detailing such as stone walls, or trees and plantings of particular eras.

More recent features such as donated artworks or special civic projects like the Peace Flame Garden also have cultural associations. While the Garden is an ideal location for such features, it is not simply a repository, and applications need to be carefully considered in the context of the Garden as a whole. Preferably, Council should take the initiative to seek suitable artworks or projects where a specific opportunity within the Garden is identified.

4.3.2 Policies - Tree Framework / Replanting Programme

- Management of the tree framework shall be governed by the policies in the Tree Plan¹⁴ In particular

¹³ The City Arts team will assess proposals it receives in collaboration with Council's Public Art Panel to ensure they meet the criteria and reflect the outcomes for public art activity

¹⁴ Tree Plan Wellington Botanic Garden (for amenity and framework trees) 2011 – note the plan includes Bolton Street Memorial Park

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- Tall conifers shall be retained as a key element of the tree framework but future planting shall be situated away from the edges of the native forest remnants, taking into account the effect of the prevailing wind in carrying pine needles and seed into the remnants and potential to protect against this with buffer planting.
- The potential for providing food sources for native birds shall be considered when selecting species for replanting.
- Prior to the removal of any vegetation its historic, scientific and aesthetic merit shall be assessed against the reasons for its removal. Where necessary, for continuance of the genetic resource, propagation shall be undertaken before removal.
- Replacement species will be planted based on
 - their rarity or historical significance to the garden or
 - the form and characteristics required at that planting site.
- A greater diversity of tree species will be explored
- The Botanic Garden management should be proactive in its public advice about maintaining and replacing the tree framework trees
- Tree interpretation is required especially for rare and unusual trees or trees which are important for the resources they provide

The skyline of the Wellington Botanic Garden is characterised by many tall conifers, most of which are pines. These, together with the native forest remnants, provide the main framework of vegetation in the Garden although other tall tree species do occur, mainly as specimen trees. With assistance, tall native forest species within the forest remnants should eventually re-emerge but this will be a long-term process.

The pines are an important part of the Garden's character and have also helped to create microclimates by providing shelter. They are some of the oldest pines in New Zealand and, because of their age, some of the trees are dying, are unhealthy or damaged and so represent a safety hazard. Already some groups of trees have been removed and other groups will be removed when they present a safety risk. A replanting programme has been planned to ensure that there is a continuity of tall trees to provide shelter and an appropriate visual framework for the Garden. This is outlined in the Tree Plan Wellington Botanic Garden (for amenity and framework trees) 2011.

The plan itemises actions for individual trees and cohorts by providing direction for their management over the next 30 years. Its aim is to preserve and enhance the landscape and the many views (including the borrowed ones) within and outside the Garden's boundaries. It sets out to carefully manage the impact of tree removals and replacements and to ensure that the tree heritage of the garden is maintained, perpetuated and enhanced in the face of a rapidly maturing tree population, climate change, pest animals, pest pathogens and the random impacts of storms on the garden.

The Tree Plan notes that conifers contribute a recognised character to the Garden have demonstrated their suitability to the site conditions and have important historic and scientific value. Therefore, replanting should include a significant proportion of these species. However, in close proximity to the native forest remnants, the pines present management problems as pine needles on the forest floor smother potential native regeneration and wilding pines occur. Location of future conifer replanting will need reviewing particularly on the exposed ridge tops, where the existing conifers form landmarks and provide shelter but are in close proximity to native forest

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remnants. Buffer planting of other species around the native forest remnants will be considered to reduce the adverse effects of the conifers on the native forest.

It is important that the tall tree framework provides a consistent yet diverse element through the Garden but accent planting of other tall tree species can supplement the main conifer / native forest framework, to provide feature areas of interest particularly as buffer plantings around the native forest remnants, or in under-developed areas of the Garden. These trees, spread across the gardens, are collections in their own right with botanical / educational value which also provide appropriate settings and shelter for other collections. Species need to be selected for suitability to site conditions, botanical interest and compatibility with the native forest remnants, and may include feature plantings of selected native emergent species.

The planting programme began in 2011, with deciduous trees being planted to replace trees identified as declining, removed or fallen for instance the southern end of the Glenmore Street fenceline opposite Orangi Kaupapa Road. . On the ridgelines replanting will occur. This will include new planting of pines on the lower slopes of Druid Hill and additional pines planted towards the southern end of Magpie ridge.

Apart from aging and natural senescence, trees are vulnerable to animals and pathogens. Monitoring for pathogens will continue and be managed as practicable. While possums are now largely eradicated Kaka are inflicting serious damage to exotic species, especially new plantings of conifers, and will need to be monitored. *Araucaria* species do not seem to be as attractive to Kaka and may prove valuable as substitutes and shelter trees in specific locations. Non local natives can be potential weeds in the native forest for instance pohutukawa *Metrosideros excelsa*, karaka and *Pittosporum ralphii*. They are being targeted for removal from the bush areas. Replacements using similar (non-weedy) species should be allowed to regenerate, such as rata *Metrosideros robusta*. In the first instance, trees need to be selected as the 'right plant for the right place'. With significant advances in tree care over the past 20 years it is clear that intensive maintenance is required in their formative years to ensure that they will exhibit good form and be structurally sound.

To future-proof for climate change, species should be selected on their ability to survive a 3-5 degree upward temperature shift. Therefore *Picea* species and other species currently in poor health should be reconsidered carefully as to their suitability for use as replacement trees.

Future tree planting in the proposed arboretum area (north of James Hector Pinetum – west and below Magpie Lawn) and the gully between the Vireya Garden – Nursery still require strong design input and planning to ensure tree plantings meet the long term tree framework and planting objectives

4.3.3 Policies - Native Forest Remnants

- Management of the native forest remnants shall be governed by the policies contained in "Ecological Assessment of the Wellington Botanic Garden Forest Remnants by Forsyth and Blaschke (2009)¹⁵ and focus on maintenance, and where necessary, enhancement of natural ecosystem processes.
- The extent of the native forest remnants and their names are as defined in the above report and as shown in figure?
- All plantings of locally occurring native species shall be grown from ecosourced seed (or cutting).

¹⁵ Ecological; Assessment of the Wellington Botanic Garden Forest Remnants – Forsyth and Blakschke (2009) commissioned by the Friends of the Wellington Botanic Garden

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- Planting adjacent to the native forest remnants shall take account of the potential effect that leaf litter or seed dispersal may have on the health of the native forest.
- Trees or branches of native species in the native forest remnants that have fallen or are likely to fall will only be removed where they are a hazard to public safety, obstruct a track, block waterways, endanger other plants, or could damage buildings. Such timber may be made available for special uses, such as Maori *cultural purposes*.

The Wellington Botanic Garden contains areas of indigenous vegetation that are significant because they link back to the forest cover that preceded European settlement.

Some of these areas were well documented by Buchanan in 1875¹⁶ reveal that podocarps and a large proportion of other native species existed at that time. Mature trees of hinau, kahikatea, miro, northern rata, maire, pukatea, rewarewa, rimu and totara were present, together with epiphytes and three mistletoe species.

The podocarps completely disappeared by the early 1900's, probably due to their exposure to wind after removal of firewood and timber from the bush. However, apart from this lack, the forest remnants strongly resemble past vegetation and the majority of the present native trees are descended from the original forest.

¹⁶ Buchanan, J., 1875. Notes on the Colonial Botanic Gardens Wellington and its flora. Unpublished, Te Papa.

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The native forest in Wellington Botanic Garden is an example of rich lowland podocarp-broadleaved forest including old growth forest and related regenerating forest types. The remnants represent small fragments of natural vegetation recognised as acutely or chronically threatened in this environment. Lowland areas such as this are generally totally bereft of old growth forest apart from occasional individual trees. Despite the fact that most of the original large native trees are missing from the structure of this forest, and some native plant species are also missing, the area remains botanically and ecologically important.

Today, as well as the forest remnant areas (4.6 hectares divided into 7 stands), there are larger areas of regenerating native forest within the Botanic Garden. The remnants and regeneration areas are relatively clearly defined. Regenerating areas generally form an understory to specimen trees such as eucalypts or forms a canopy itself over or around smaller shrubs and perennials in the collection. The native vegetation in the Botanic Garden is also linked across the city to other larger areas of regenerating and remnant native forest by growing populations of native birds, the most common pollinators and seed dispersers of many native plants.

Since Buchanan's 1875 survey there have been a number of others including a recent detailed botanical survey¹⁷. This last report raised a number of issues, in particular: the proliferation of some non-local native plants, the likely future recruitment structure of the forest areas and levels of intervention required in maintaining the forest.

In 2007 Blaschke and Rutherford were requested by the Friends of the Wellington Botanic Garden Incorporated to undertake an ecological survey to look further at these issues and make recommendations as to the future management of the Botanic Garden forest areas with particular emphasis on the pre-European remnants.

The report¹⁸ identified a number of key issues:

- Loss of species and the lack of seed sources for them
- The disturbance regime including mortality of native seedlings
- Weeds and the disruption they cause to natural succession
- Fragmentation and the critically small size of the remnants
- The contribution of introduced botanical specimens
- The extent to which existing plant composition should be supplemented
- Lack of knowledge of the influence of many animals, birds and insects

4.3.4 Implementation

Theme	Action
Historic and Cultural Features	<ul style="list-style-type: none"> • Complete an assessment of the Wellington Botanic Garden's heritage values, including more recent cultural features such as artworks, shall be carried out and a descriptive list and location map of all the items considered to have historic or cultural value shall be prepared This shall be carried out as part of the asset management planning for the Garden.

¹⁷ Mitcalfe, B.J. & Horne, J.C. 2003 (revised 2005). A botanical survey of the indigenous forest remnants in Wellington Botanic Garden, Glenmore Street, Wellington. Unpublished report for the Friends of Wellington Botanic Garden Inc.

¹⁸ Ecological; Assessment of the Wellington Botanic Garden Forest Remnants – Forsyth and Blakschke (2009) commissioned by the Friends of the Wellington Botanic Garden

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	Assistance from local historians and the New Zealand Historic Places Trust shall be sought in preparing the list.
Tree Framework Replanting Programme	<ul style="list-style-type: none"> • Continue the five year Implementation Plan in the Tree Plan¹⁹
Native Forest Remnants	<ul style="list-style-type: none"> • Identify and work to restore sparse or absent plant species from the forest • Develop and implement a weed control programme that includes current and potential non- local native species • Consolidate native vegetation areas by enrichment planting of new native species • Improve management of the Waipiro Slopes through narrowing of Serpentine Way where practicable and reduce run off of road gravel. • Establish and monitor permanent vegetation plots consistent with other plots in the WCC open space network

4.4 Recreation and Use

The Wellington Botanic Garden is one of Wellington’s major visitor attractions and recreation spaces, and a venue for many cultural events and performances.

Anderson Park is a sports recreation ground incorporating a full size cricket and soccer ground. It was developed in the early twentieth century by filling in a valley. It has been a sports recreation ground since 1910.

4.4.1 Policies - Entrances and car parks

- Public vehicle access into or through the Garden shall be restricted to the Lady Norwood Rose Garden and Anderson Park area.
- Information about alternative modes of access to the garden shall encourage visitors to travel to the garden by active transport.
- Controlled vehicle access shall be permitted for the aged and disabled at the discretion of the Botanic Gardens Manager.
- Vehicle parking in the garden will be managed to ensure regular turnover but will not be charged for.
- Work with tour operators particularly around cruise ship visits to manage bus access into the Garden.

The main entrances into the gardens are

¹⁹ Tree Plan Wellington Botanic Garden (for amenity and framework trees) 2011 – note the plan includes Bolton Street Memorial Park

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- **Glenmore Street**, with limited parking on Glenmore Street during the week. At the weekend the coupon parking areas provide ample free parking.
- **Upper cable car terminus**, with access primarily via the cable car from Lambton Quay. This is the major entrance for most independent tourists to the Garden. Minimal car parking is available near this entrance. This area is very congested with conflicting information and signage for visitors. The entrance to the Garden is hard to find and uninviting
- **Lady Norwood Rose Garden** with public vehicle access via a private roadway between Glenmore and Kinross Streets. There is a large parking area providing free two hour parking near the rose garden and a small public car park by the Seddon Memorial.

Tour buses visiting the garden also use this private roadway and 2 bus parks are available. Vehicle congestion can occur along the private road way especially during the cruise ship season when tour bus numbers increase at peak times.

4.4.2 Policies - Circulation, Orientation and way finding signage

- A network of tracks shall be provided to enable visitors to experience and use the gardens – taking them through the collections and heritage features
- The network shall be periodically reviewed against changing needs and modified where necessary. Factors to consider include:
 - Are the main entrances and popular destinations within the three parks connected by a logical network of main paths?
 - Are paths in areas of easier topography suitable for disabled and aged visitors?
 - Is there a need to provide access to new viewpoints because of vegetation growth?
 - Is the need for new or wider paths indicated by visitors following nonformed routes or by damage to vegetation?
 - Do paths bring visitors close enough to plant collections for adequate viewing?
 - Is the path still necessary and safe?
- Paths shall be designed and maintained as a clearly recognised hierarchy of main, secondary and minor routes according to surface treatment and width.
- All main routes will be sealed.
- Any upgrading or new path or track formation must be justified by need and be sympathetic to the character, topography and existence of heritage features.
- Paths and tracks that have historical significance because they are commemorative or were influential in the way the three parks developed shall be retained.

There is an extensive path network within the Garden that was in place prior to 1875 and forms the basis of pedestrian circulation today. The original paths are named and are important historic features of the garden. These are named in the brochure but the original path names have become damaged or faded over time and need replacing or a different way of naming the paths needs consideration.

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Upgrading and redevelopment of the pedestrian network may be required as visitor numbers increase, and use patterns change along with development of new attractions such as the Children's Garden.

The steepness of the terrain does limit access in places and in particular the steep entrance from the Cable Car does limit visitors who will be concerned about the return trip. The development of trails that are of easy grade or downhill such as the Downhill to Down Town walk will encourage more people to walk in the garden.

Local walkers and runners are also frequent users of the garden and often use the lesser used tracks and trails to complete circular routes.

The network should

- Provide a range of walkways and trails so visitors can experience what's on offer
- Clarify way finding and link the main attractions and collections
- Provide a series of circular routes as well as through route
- Link to a series of themed interpretive trails linked to the education and awareness programmes, such as the Sculpture Trail and
- Provide decision points/ map board locations and wayfinding signage at major intersections.

Public facilities

As a general principle, in keeping with the Open Space zoning, buildings and structures within the Garden should be kept to a minimum. However, facilities may be provided for visitor comfort (e.g. toilets, shelter) or to enhance visitor enjoyment (e.g. refreshment outlets, children's playground, the Soundshell, Begonia House, cricket pavilion.) In addition to buildings, outdoor furniture such as seating, lighting and rubbish bins are provided for visitor convenience.

With changing usage levels and patterns, new facilities or upgrading of existing ones need to be considered. Issues include:

Provision of public toilets particularly in areas of the garden where visitation could increase such as Magpie Lawn. Most of the toilets in the garden have been upgraded in the past ten years. However the Play Area toilet block is old and is not built to full accessibility standards. With the development of the adjacent Children's Garden and the increase in use of this area by families, and larger school groups a full assessment of the need for toilets in this area is needed.

The Treehouse Visitor Centre occupies a central position in the Botanic Garden but attracts only about 30% of casual visitors to the Garden. Factors that contribute to this may be its physical separation from the main entrance and promenade in the Main Garden, and its specific information role. Only some visitors specifically seek information.

Circulation and layout of the Treehouse has been improved recently and the changing displays including short term exhibitions such as the Quilting Exhibition in 2014 attract large crowds. With its elevated views and wealth of information, coupled with its proximity to the proposed Children's Garden means it has potential to become much more of an attraction.

4.4.3 Policies - Other Visitor Facilities such as seating, shelter, barbeques and rubbish bins.

- To provide visitor shelters in the Main Garden and Lady Norwood Rose Garden that are sensitively designed and located to minimise any negative impact of the structure on the garden environment and be sympathetic to garden character.
- No additional seating will be provided in the Main garden and the Rose Garden.

4.4.4 Policies - Anderson Park facilities

- A full size playing field shall remain available for the existing sports codes and any proposed changes shall be fully discussed with these codes and with interest groups.
- Activities associated with public events shall be permitted on the playing field at times when the field is not being used for organised sport, provided that the field is protected from damage

The sports ground at Anderson Park provides for a rather different group of users compared to the Gardens. The ground is being more intensively used for both the traditional uses of cricket and soccer, and for new sports such as touch rugby. User groups have defended the continued use of the Park for sporting activities and proposals to significantly reduce the size of the playing field were shelved after widespread opposition.

The Park also has considerable value as a ‘spill-over’ area for events held in the Dell / Rose Garden area. The large flat open space is ideal for children’s rides and market stalls.

Public Events

Public events have proved to be highly popular attractions in recent years. These include Tulip Sunday and the Spring Festival, the Summer City programme of concerts and light show, Summer Shakespeare and a mid-winter Rose Pruning Day. Recent visitor surveys indicated considerable interest in other types of event.

Events need to be well managed so they do not compromise other user’s experience of the Garden or put too much pressure on existing infrastructure. For instance some recent Summer City concerts have attracted very large crowds of up to 5000 that put a huge strain on the garden and cause occasional damage to plant collections and the wider landscape.

Many private activities and events also take place in the garden from large family gatherings, picnics and barbeques through to weddings. There are a limited number of spaces for these activities within the garden, particularly smaller more intimate spaces. There are several opportunities including the space south of the Herb Garden on the site of a custodial residence and magpie Lawn near the Mariri road entrance. Both have vehicle access but limited facilities.

4.4.5 Implementation

Theme	Action
<i>Entrances and car parks</i>	<ul style="list-style-type: none"> ▪ Develop a landscape concept plan for the Cable car entrance which emphasises the garden’s relationship

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	<p>with the cable car precinct and Observatory Reserve.</p> <ul style="list-style-type: none"> ▪ Investigate increased off street parking for the Garden along the Salamanca Road Frontage.
<i>Circulation, Orientation and way finding signage</i>	<ul style="list-style-type: none"> • The interpretation plan/ strategy being prepared (refer Education and Interpretation section), shall consider visitor circulation patterns and include improvements to the orientation and way finding signage. • Carry out a review of the Nursery/ Treehouse/Childrens Garden sector to improve pedestrian circulation and resolve conflicts with operational vehicle movements.
Public facilities	<ul style="list-style-type: none"> • Develop a landscape concept plan for Magpie lawn that considers the provision of; public toilets, visitor shelter, barbeque and screening of the compost heaps. • Review toilet provision in the Play Area/Children's Garden area and the feasibility of upgrading or replacing the existing facility.
Public events	<ul style="list-style-type: none"> • Investigate the demand for additional event spaces and carry out a feasibility study on the area south of the Herb Garden.

4.5 Partnerships and community involvement

The Friends of Wellington Botanic Gardens were formed in 1989 and grew out of the Floriade festival and the celebration of 100 years of Council management of the Garden. Today the Friends work closely with the Wellington City Council to preserve, protect and develop, and interpret the Garden.

The Friends have many roles including

- Running guided tours to encourage public interest in the Garden
- Providing hosts at events and during cruise ship visits to provide information to garden visitors
- Fund raising for specific projects such as the Children's Garden
- Organising events such as the ceremonial plantings by the current governor General
- Lobbying in support of the garden.

4.5.1 Policies – Mana whenua

- Work with mana whenua to investigate the development of a Kumutoto Cultural Garden

The Ngāti Te Whiti hapu of Te Atiawa used the area now in the Botanic Garden for gardening and for food gathering for Kumutoto Pā in particular prior to the arrival of the New Zealand Company settlers in 1840. The various arrangements after the signing of the Treaty of Waitangi saw these lands transfer into the Town Belt for the Town of Wellington while still being used by Māori. Some 52.6 acres of Garden lands were granted to Māori from Kumutoto in 1847, however soon after it was all sold to the Government. The Māori population at Kumutoto went from 30 in 1844 to just 14 by 1857. The Wesleyan mission became the beneficiary of this land initially and later much was to transfer to the Town of Wellington and become part of the botanic Garden.

Port Nicholson Block Settlement Trust have proposed that a cultural garden be established within the Botanic Garden in recognition of Te Atiawa – Taranaki Whanui. A possible site for the garden could be the section adjoining Salamanca Road down to where it meets Bolton Street along Pukehinau Ridge and overlooking the old Kumutoto Pā. This would be designed with flora of significance to Māori in this area including the Hinau of Pukehinau, the Kawakawa of Haukawakawa and a habitat for Kaka from Paekaka. This garden could have sculptures or carvings based on Māori tradition as part of the gardens.

4.5.2 Implementation

Theme	Action
<i>Fund raising</i>	<ul style="list-style-type: none"> ▪ The Friends of the Botanic Gardens will support and work with the Council to raise the funds needed for the Children’s Garden.
<i>Mana whenua</i>	<ul style="list-style-type: none"> ▪ Work in partnership with Port Nicholson Block Settlement Trust to investigate the development of a Kumutoto Cultural Garden.

5 Otari Wilton's Bush

Otari Native Botanic Garden and Wilton's Bush Reserve (Otari-Wilton's Bush) comprises about 5 hectares of cultivated native plant collections and about 96 hectares of mature and regenerating native forest. Otari-Wilton's Bush is the only botanic garden in New Zealand dedicated solely to native plants, and its mature podocarp northern rata forest is one of the few remaining remnants of this once common forest type on the Wellington Peninsula.

Otari-Wilton's Bush nestles in the deep valley formed by the Kaiwharawhara Stream (also known as Te Mahanga Stream) flowing northeast towards Ngaio Gorge. The northwestern boundary borders the Te Wharangi ridge on the skyline and the southwestern boundary borders Karori Cemetery, Ian Galloway Park, and mixed exotic/indigenous forest on private land. Surrounding the rest of Otari-Wilton's Bush to the east and north are the suburbs of Wilton and Chartwell. Wilton Road forms much of the south eastern boundary and Otari School and Wilton Bowling Club adjoin Otari-Wilton's Bush on Wilton Road.

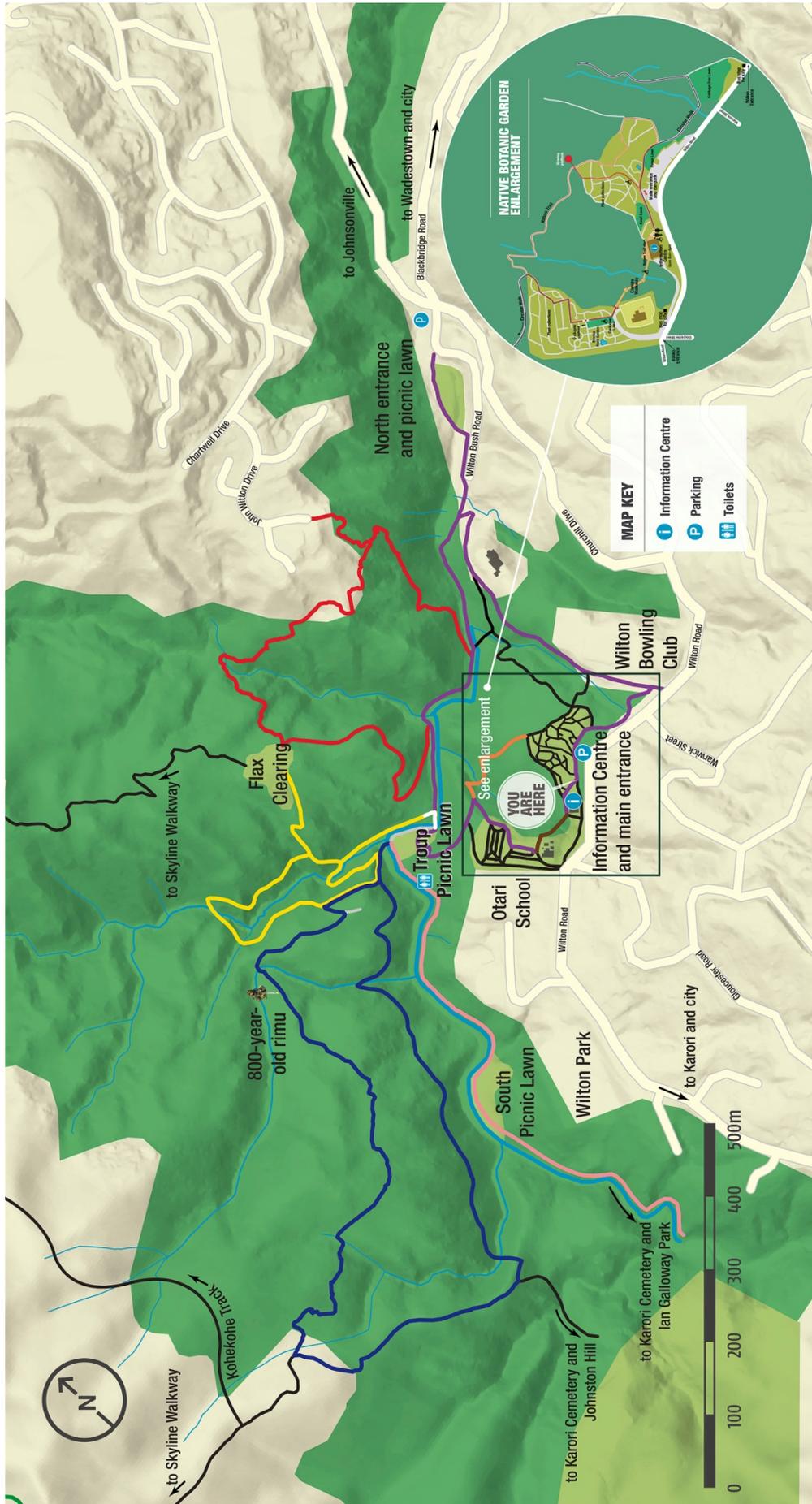
Most of Otari-Wilton's Bush is classified as Scenic Reserve. The original reserve area was gazetted in 1906 under the Scenery Preservation Act (1903). In 1918 the reserve was acquired by Wellington City Council "in Trust for Recreation purposes and for the preservation of Native Flora" (s62 of the Reserves and Land Disposal and Public Bodies Empowering Act 1917).

The area on the Wilton Road side of the Kaiwharawhara Stream, including Wilton's Bush was added to Otari Scenic Reserve in 1925 (ex Chapman Estate). From the 1960s to 1990s, Wellington City Council continued to acquire adjacent areas to the north (ex Chartwell Subdivision) and northeast (ex Curtis Estate). In 2000, the name of the reserve was officially changed to Otari Native Botanic Garden and Wilton's Bush Reserve and is now commonly referred to as Otari-Wilton's Bush. The latest management plan was prepared in 2007. Full legal descriptions are provided in *Appendix 1*.

A detailed historical outline is included in Appendix 2.

Landscape and landform: Otari-Wilton's Bush ranges from 70-280 metres above sea level. The reserve is incised by the Kaiwharawhara Stream and is a key part of the Kaiwharawhara Catchment. To the west of the stream, the reserve is dominated by very steep hill slopes leading up to Te Wharangi Ridge. To the east of the stream are more gentle slopes which beyond the reserve eventually climb to the Te Ahumairangi Hill ridgeline. The forest of Otari-Wilton's Bush is a visually significant feature, viewed from Churchill Drive below Chartwell and seen from Wilton Road.

Indigenous ecosystems: The area known as Wilton's Bush near Wilton Road and part of the forest up the western ridge is of national significance as one of the few remaining areas of original podocarp-northern rata forest on the Wellington Peninsula. Much of the surrounding forest is also of significance as advanced secondary forest with remnant elements of primary forest. Large podocarps such as rimu, totara, miro and matai can be readily seen. Kohekohe, rewarewa, tawa and mahoe trees dominate the upper slopes, and in valley areas tall pukatea are found.



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About 150 species of flowering plants, podocarps and ferns can be found growing naturally in the forest. .

Bird life was greatly diminished with the loss of mature forest in the catchment and with intense hunting of kaka, kereru, and tui in the 19th century. However, in recent years records show that bird numbers are increasing in Otari-Wilton's Bush, and they are likely to be benefiting from a number of factors including; a rigorous pest control programme throughout the area, the development of Zealandia and the conscious development of the Outer Green Belt as a corridor providing suitable habitats and range. Native birds recently observed in Otari-Wilton's Bush include silvereye, kingfisher, fantail, grey warbler, tui, kereru, paradise shelduck, shining cuckoo, morepork, NZ falcon, bellbird, kaka, kakariki, falcon and tomtit (see Appendix 4).

Other fauna recorded as present within the forest ecosystem include cicada, dragonfly, lizards (including forest gecko and copper skink), glow worms, weta and a generally rich invertebrate population; however this information is limited to few studies.

In March 2007, a 'Bioblitz' was conducted with the goal of counting as many species as possible during a 24 hour period. The final count was 1345 species (see Appendix 5 for summary of results).

The main threats to the forest are pest plants and animals, lack of podocarp and other sparse species recruitment, surrounding land uses and pressures, and fire.

The other key ecological feature of Otari-Wilton's Bush is the Kaiwharawhara Stream (also known locally as Te Mahanga branch of the Kaiwharawhara Stream) which runs through the middle of the reserve. The stream retains a relatively healthy habitat despite the land use pressures placed upon it. The head of the stream sits within Karori Wildlife Sanctuary where it is dammed. The stream is then piped under Appleton Park and Ian Galloway Park (closed landfills), and surfaces again to flow down through Otari-Wilton's Bush, Trelissick Park/Ngaio Gorge and into the harbour.

Cultural heritage: Otari-Wilton's Bush is named both for its Maori heritage where Otari means "Place of Snares" and was settled by Te Atiawa/Taranaki Whanui, and for the Wilton family whose forefather, Job Wilton was one of the pioneer farmers in the region and owned the land adjacent to the reserve, including a part of the reserve from 1860. These aspects, along with its natural, built and continuing social heritage contribute to the uniqueness of Otari-Wilton's Bush.

In 1825 Ngati Tama and Ngāti Mutunga a hapu of Te Atiawa Nui Tonu settles the area largely left vacant by the previous tangata whenua groups such as Ngati Ira. Ngati Tama and Ngāti Mutunga moved first to the Ohariu District along the west coast. In time they moved inland ending at where they established a Pā at Kaiwharawhara. Otari was occupied in the 1820s. It was also on the trail from Kaiwharawhara and Makara with people moving regularly between the Harbour and the coast. Gardens were made and birds were shared.

Recreational resources and linkages: The recreational history of Otari-Wilton's Bush goes back to the 1860s, gaining in popularity as it became one of the few surviving forest remnants near the city. The forested areas on both sides of the stream have been known locally as "Wilton's Bush" since the 1870s, even though only the area on the true right of the Kaiwharawhara Stream was actually owned by Wilton.

Today, Otari-Wilton's Bush still enjoys high levels of recreational use. These are pedestrian based, and include walking, running, dog walking (on-leash), picnics and barbeques.

Native plant collections: Otari Open-Air Native Plant Museum was officially opened in 1926, and a kauri was planted just inside Banks Entrance. Since then, the collections have continued to grow. These have included plantings into the regenerating forest area (eg beech plantings around the flax clearing) but in recent years have been mostly confined to the Banks Entrance and Wilton Road car park area (refer to Section 2.2 Historical Information for more detail). Since their inception the native plant collections have focused on the conservation of native plants, providing examples of New Zealand vegetation types, the use of native plants for horticultural purposes, and for scientific study and education.

The earliest 'official' role of the Reserve was set by Dr Leonard Cockayne in his 1932 "*A Scheme for the Development and Arrangement of the Otari Open Air Native Plant Museum*". Dr Cockayne identified four themes for the development of Otari-Wilton's Bush:

1. the development of New Zealand native plant collections,
2. artificially producing examples of native vegetation types;
3. restoring the forest as far as possible to its original form; and
4. demonstrating ways to use indigenous plants in horticulture.

Today, there are over 1200 taxa (taxonomic units or groupings) represented in the plant collections, approximately one half of New Zealand's known higher plant taxa.

5.1 Plant collections

The location and climate of Otari-Wilton's Bush means that it has been able to develop the most comprehensive collection of plants from the New Zealand flora in one place in keeping with Leonard Cockayne's original vision for the reserve.

Otari Wilton's Bush celebrates two important dimensions: the natural, (forest) and the cultural, (cultivated areas). The principle themes/roles of the collections are:

Patterns of variation. providing the opportunity for visitors to explore the diversity of New Zealand's flora, including both taxonomic groups and plant community associations.

Plants of interest. showcasing plants with unusual and fascinating characteristics that tell the story of New Zealand's ecological history. *Use of New Zealand indigenous plants* for cultural, medicinal and horticultural purposes

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Conserving New Zealand indigenous plants.

To meet the modern day expectations of education and conservation, and to position Otari-Wilton's Bush internationally, the plant collections must be informative and offer the visitor a sense of understanding and awareness of New Zealand's flora, as well as provide an opportunity for people to see how native plants can be used in horticultural and garden settings.

There are currently three clusters of plant collections in the native botanic gardens:

1. **The Cockayne collections** in the vicinity of the Cockayne lawn and lookout
2. **The Forest collections** comprising the fernery, conifers, 38° garden, alpine collections
3. **The beech collection** near the northern entrance off Churchill Drive

The Cockayne and Forest collections are divided by a series of natural gullies, one of which is bridged by the canopy walkway.

Range and scope of collections: The area for collections is limited by their location within an important native forest remnant. Any increase in the collection area would need to ensure there were no negative effects on these remnants. In addition the existing environmental and climatic conditions limit the range of species that can be successfully grown. Some species could be grown at the Wellington Botanic Garden.

Otari Wilton's Bush can show a leadership role through partnerships with external collections to develop a virtual regional and national ex situ collection of native plants. For instance:

- **Partnerships** with other regional collections or ecotypes to ensure complimentary and backup collections are grown, for instance Percy's Reserve in Lower Hutt and Nga Manu Sanctuary in Waikanae
- **National collections** including those held by other botanic gardens especially in Auckland, Christchurch and Dunedin.

The Landscape Development Plan (LDP):²⁰ : This plan identifies ways in which the collections can showcase the plants and the landscape in a way that will engage with visitors. In particular it proposes:

- **Having a clear hierarchy of path ways through the plant collections**, with one main path and a series of secondary tracks leading off it.
- **Refine the collections** so that as people journey along the main path, they will be immersed and able to experience the different vegetation types.
- **Make a feature of the places (or moments)** where the physical relationship between collections and/or forest become apparent, where small groups can gather, and where key messages can be delivered.

²⁰ Otari Wilton's Bush Landscape Development Plan September 2010

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This management plan includes the major initiatives in the Landscape Development Plan that are a priority for implementation.

Conservation programmes: Otari Wilton's Bush contains around 35% of New Zealand's threatened plants. Guided by the Global Strategy for Plant Conservation, Otari works closely with partners such as the Department of Conservation, Greater Wellington Regional Council and NZ Plant Conservation Network to provide plant material for planting back into the wild as part of national recovery programmes, as well as raising awareness around threats to New Zealand native plants.

. Threatened and uncommon plants of NZ - numbers held at Otari 17 February 2014	Otari accessions	De Lange list (2012)	% held at Otari
Data Deficient	2	48	4%
Threatened (includes Nationally Critical, Nationally Endangered and Nationally Vulnerable)	83	235	35%
At Risk (includes Declining, Recovering, Relict and Naturally Uncommon)	199	683	29%
Non resident native (includes vagrant and colonizer)	2	29	7%
Taxonomically indeterminate (includes data deficient)	3	48	6%

Otari Wilton's Bush works closely with The New Zealand Indigenous Flora Seed Bank²¹ based at Massey University in Palmerston North. This can involve staff collecting threatened species in the wild and providing some seed to the seed bank as well as using seed held by the seedbank for propagating plants for return to the wild.

Cockayne collections

The Cockayne collections are located adjacent to the Banks Entrance, Cockayne lawn and lookout. They are on the route of the Circular Walk and adjacent to the excavators house and nursery. The house will be converted into a public resource centre and will include space for meetings, school visits and education. The garden space around the house will become a public area showcasing plants suitable for use in home gardens. The building will be known as the **Cockayne Centre** in recognition

²¹ The aim of the NZIFSB is to collect the seeds of New Zealand flora as part of an ex-situ conservation strategy to conserve the biodiversity within New Zealand's indigenous flora.

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of Dr. Leonard Cockayne who directed the philosophy and development of Otari Wilton's Bush.

The landscape development plan proposes redevelopment of the sector. In particular:

- Change the Banks entrance to the north side of the house and relocate the nursery to the existing site of the Banks Entrance. Alternatively provide access to the nursery from Wilton Road

Key collections in the sector include:

Collection	Theme/role
Walter Brockie Rock Garden	Remarkable plants from New Zealand's exposed landscapes and wide open spaces
Wellington Coastal Garden	Selection of Wellington's coastal plants
Threatened species	Showcasing NZ threatened plants and a resource for ex-situ conservation
Rain shadow border	Reflecting the distinctive climate and vegetation types east of the Main Divide in the South island.
Daisy collection	Showcasing the diversity of the NZ daisy family (Asteraceae) with an emphasis on woody forms
Offshore Island collection	Predominantly northern off-shore islands plus a few from the far north mainland; also includes Chatham Islands and Stewart Island.
Phormium and Hebe (Veronica) cultivar collections	Showcasing the variety of forms and their use as garden plants. The Phormium collection will be disestablished as the house garden becomes available and will be converted to extending the adjacent existing taxonomic gardens
Coprosma, Hebe, Pittosporum, Pseudopanax collections	Taxonomic collections showing the range of forms within each genus.
Divaricate collection	To showcase this distinctive growth form in a range of NZ species.

Forest collections

This sector is adjacent to the main entrance and carpark off Wilton Road and includes the ponga and kauri lawns, collections including the fernery, 38° garden, alpine garden and conifer collections. It extends to the Bowling Club entrance where the former Carmichaelia collection was planted.

The landscape development plan proposes redevelopment of the sector. In particular:

- Reconfigure the pedestrian entry from Wilton Road carpark to the visitor centre, Te Marae o Tane,
- Create a new canopy walk that links the fernery to Te Marae o Tane

Since the development of the landscape plan several of the mature tawa trees have been blown over during major storm events. This has opened up the fernery and required extensive replanting.

The fernery, tree fern, 38° and alpine gardens are under or adjacent to forest canopy cover and as a result the surrounding trees all require occasional proactive pruning to ensure enough the gardens are receiving an appropriate amount of sunlight.

Key collections in the sector include:

Collection	Theme/role
The Fernery	Diversity of ground tree and climbing ferns within a forest canopy
Tree fern garden	Collection of tree ferns under planted with perennials and ground covers suited to shady conditions.
38° south collection	Reflects a botanical boundary at latitude 38° south; the southernmost limit of several species including kauri.
Gymnosperm collection	Showcase NZ native conifers and provide a dramatic entrance to Te Mara o Tane.
Alpine garden	An attractively planted area showing the diversity of native alpine species.

The Beech collection

The beech collection was planted in 1984 and contains five species and two sub species of New Zealand beech (*Fuscospora spp.* and *Lophozonia sp.*). It is situated on a steep bank between Wilton Bush Road and Churchill Drive adjacent to the Solander entrance. It is a significant representation of an important forest type in New Zealand. Beech forest does not occur naturally in Wellington city. It is the common vegetation on the eastern Hutt hills and behind Eastbourne.

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The nursery

Otari-Wilton's Bush will retain its own nursery in order to maintain control and accuracy in the handling of accessioned plant material. The primary role of the nursery will be to support the collections and threatened plant conservation strategies.

Plants required for revegetation and restoration programmes within the reserve and Kaiwharawhara catchment, as well as plants for Open Days may be grown at other nurseries, and where possible using Otari-Wilton's Bush sourced material.

5.1.1 Implementation – Plant collections

Theme	Action
Cockayne collections	<ul style="list-style-type: none"> • Construct a central pathway through the collections with viewing points and links onto the Circular Walk and Nature Trail as proposed in the Landscape Development Plan. • Redevelop the taxonomic collections in the lower collections (below the Cockayne Lookout) around the proposed redeveloped pathways. • Develop the garden around the house to display a range of native species and to showcase natives as garden plants. Relocate the <i>Phormium</i> and <i>Hebe</i> cultivar collections into the garden. • Investigate integrating the nursery and its collections into the visitor experience • Develop 'up close and personal' walks through <i>Phormium</i> 'Goliath', a lancewood forest 'thicket', and a divaricate tunnel.
Forest collections	<ul style="list-style-type: none"> • Complete replanting of the Fernery and the replacement tree canopy • Continue to develop collection themes for the 38^o garden with further plantings. • Continue to develop understory/ground cover amenity plantings in the tree fern garden • Continue to manage existing plants in the former <i>Carmichaelia</i> collection, propagating to produce further accessions and identify opportunities for displaying <i>Carmichaelia</i> spp. more visibly throughout the wider collections areas.
Beech collections	<ul style="list-style-type: none"> • Develop a circular walking circuit through the collection from the North picnic Lawn. • Investigate the construction of a lookout structure above the beech collection access from the new circular walking circuit identified above.

5.2 Education and awareness

Otari-Wilton's Bush fosters appreciation and understanding of New Zealand's natural heritage and cultural heritage through the lens of plants and horticulture. It has the potential to become recognised as one of Wellington's leading environmental education experiences, complimenting and working with the similar experiences offered at the Wellington Zoo and Zealandia.

5.2.1 Policies Themes

The **plant collections** present unique interpretation and educational opportunities.

The **natural ecosystems** (the forest and the Kaiwharawhara Stream) are of special educational value because they are so close to the CBD.

- There will be four main themes:
 - **Cultivation and wilderness:** describing the relationship of all people to the land, their connections to it and how they manage and conserve it.
 - **Wilderness stories (natural ecosystems):** ecology and biodiversity both locally, as part of the Kaiwharawhara catchment and Wellington City and nationally.
 - **Plant cultivation stories:** the distinctiveness and uniqueness of native plants and their traditional (for example rongoa²²), and horticultural uses.
 - **Otari as a place of connection:** The site's significance from early Maori occupation and use through to the development of Wellington and the historic and contemporary connection between cultures. In particular the roles of Leonard Cockayne and Job Wilton in the preservation of the bush and development of the plant collections.

Te Marae o Tane is the main public facility providing a range of visitor services and information. With the development of the Cockayne Centre in the ex-curators house it will enable Te Marae o Tane to focus on education activities and information with meeting space being relocated to the Cockayne Centre. The current interpretation lacks a legible hierarchy and could be improved with the addition of regularly changing displays and information on the reserve. The deck could also be considered for use as an outdoor classroom.

- **Staff base** and administration
- **Volunteer and hosts base**
- **Reference library** for staff and researchers
- **Interpretive displays** centred on the Otari forest and NZ plant ecology/forest ecology/conservation and reserve information -
- **Hosting** small conservation/ecological focussed exhibitions
- **Indoor/outdoor Classroom** and occasional meeting space
- **Hosting events**

The Cockayne Centre will be developed from the ex-curator's residence. There is an opportunity to open up the house for use as public space for small meetings

²² Rongoa is the Maori use of traditional methods to deal with illness.

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and events, for interpreting the native botanic gardens and the use of New Zealand plants in horticulture, and to support education and research. The house garden will be redeveloped to showcase natives as garden plants. It will include:

- **Interpretive displays and information resources** (detailed and technical) centred on the native botanic gardens history and functions, horticulture and plants.
- **Education resource and teaching centre.** Meeting and small event space for hire
- **Showcasing natives as garden plants** around the house
- Short term intern/staff accommodation
- Potential with house redevelopment to include nursery into visitor experience in future

5.2.2 Implementation – Education and awareness

Theme	Action
Education and awareness	<ul style="list-style-type: none"> • Develop Te Marae o Tane as the main visitor centre with information and changing displays about the history of Otari, the ecology of New Zealand plants and the Wilton’s Bush forest reserve. • Develop the Cockayne Centre as public space for small meetings and events, for interpreting the native botanic gardens and the use of New Zealand plants in horticulture, and to support education and research. The surrounding garden will be developed as a showcase for using native plants in home gardens. • Develop the Nature Trail as the main educational trail with interpretative signage, plant labelling of all common trees and curriculum based self-guiding material • Identify and test new interactive trails possibly using new technology. In particular a family trail and an ethno-botanical trail.

5.3 Cultural and Natural Heritage

Cultural history

Otari-Wilton’s Bush has a rich cultural history; from early Te Atiawa/Taranaki Whanui settlement, to its use as an informal public recreation and reserve area, through its years as a gazetted reserve (see Appendix 2 for a Historic Outline).

As with the rest of the city, several layers of culture have developed at Otari-Wilton’s Bush; mainly a reflection of Maori and then European land occupation. It is important to acknowledge each layer for a full understanding of our heritage, and that these layers create a unique cultural landscape.

5.3.1 Policies

- Recognise the cultural heritage of Otari-Wilton's Bush through collating relevant historical material on-site as an archival resource for staff, Otari-Wilton's Bush Trust, and users of the reserve.
- Facilitate further research to record the history of Otari-Wilton's Bush.
- Provide on-site interpretation of important heritage features.
- Recognise the importance of Job Wilton and Leonard Cockayne in preserving Wilton's Bush and developing the area into a native botanic garden.

This cultural history, as well as the natural, built, and social heritage helps make Otari-Wilton's Bush the place it is today. Heritage provides a context for the present, and also helps to shape the future. It is important that the heritage aspects of Otari-Wilton's Bush are recognised, protected, and communicated.

Otari-Wilton's Bush is a significant historic place, both nationally and in Wellington, as it is the only public botanic garden in New Zealand dedicated solely to native plants. It was recognised as a Garden of National Significance by the Royal New Zealand Institute of Horticulture in 2004. Its mature podocarp northern rata forest is the one of few remaining remnants of this once common forest type on the Wellington Peninsula and contains Wellington city's' oldest tree, a rimu estimated to be over 800 years old..

There is a strong connection to Job Wilton, a local settler and farmer and Wilton Farm House which still exists adjacent to the reserve. Wilton's Bush, owned by Job Wilton was already a popular recreation area from the 1860's. The bush was protected by its owners until it was added to the reserve in 1925.

Otari is also intimately associated with Dr Leonard Cockayne who was an internationally renowned botanist. Dr Cockayne contributed his knowledge through botanical and ecological research. He was involved in the development of Otari-Wilton's Bush as an open-air native plant museum, which was opened in 1926.

Otari-Wilton's Bush has high historic, social, and scientific values.

The area is already recognised as a Heritage Area in the Wellington City Council District Plan, and the privately owned Wilton Farmhouse and Outbuildings (1860) are listed as Heritage Buildings.

Natural heritage

Otari-Wilton's Bush contains one of the largest areas of native forest on the Wellington Peninsula. One of the few remaining remnants of podocarp-northern rata forest (Wilton's Bush) occurs within the forest area; a forest type that was once common throughout inland Wellington of which less than 1% remains. The protection of the forest area is important due to its heritage and intrinsic value, its role as a seed source, its biodiversity values, and ecosystem services.

5.3.2 Policies – Forest management

- Manage the native forest at Otari Wilton's Bush as a key native ecosystem and establish it as part of the Zealandia halo concept

The forested area contributes to Otari-Wilton's Bush as a 'living museum', preserving habitat for species that would have once been common in Wellington; including less charismatic forest species such as fungi and invertebrates. It also provides habitat for wildlife, particularly for many of the birds reintroduced via Zealandia. Having such a significant area of forest so close to the city provides unique educational opportunities and a research resource. In addition, it is an essential part of the history and heritage of Otari-Wilton's Bush.

To date, the management of the forest area (with the exception of the revegetation project between Ian Galloway Park and Otari-Wilton's Bush) has been based on low levels of intervention. The most significant management intervention has been the extensive possum control programme, following which a marked increase in bird numbers in the reserve was observed. This is carried out in collaboration with Greater Wellington Regional Council and has been running since 1993. It has also resulted in some rodent by-kill. Since 2007 volunteers have been managing a mustelid and rat control programme using a matrix of DOC200 traps throughout Otari Wilton's Bush.

Weed control is now proactive, with a long term old man's beard (*Clematis vitalba*) eradication programme still underway. Weeds are monitored and managed in accordance with the Wellington City Council Pest Management Plan (2005) where Otari-Wilton's Bush is identified as a Key Native Ecosystem, and with Greater Wellington Regional Council's Regional Pest Management Strategy. Otari-Wilton's Bush has also been recognised by the Greater Wellington Regional Council as a Key Native Ecosystem and is managed under the Wellington Western Forests plan.

A fencing programme along the Outer Green Belt has ensured that domestic stock no longer get into the reserve. Five minute bird counts are carried out annually as part of the City-wide biodiversity monitoring programme.

By utilising the support of Greater Wellington Regional Council and the Department of Conservation there is the opportunity to more actively manage the forested area so that it provides a relatively safe habitat for indigenous wildlife, and to ensure that sparse species (including podocarps) recruitment is sufficient to return the whole forested area back to its pre-European state. Although the nature of the forest varies throughout the reserve (from original primary forest, to disturbed secondary forest) the goals are the same for the whole forest area, and so it may be managed as one.

Project Halo: The vision for the Zealandia Halo Project is:

An ecological buffer zone protecting native flora and fauna around Zealandia, Wellington's urban sanctuary.

The halo will help to preserve and enhance the conservation work being done at Zealandia and increase native biodiversity outside the sanctuary.

What is a Halo?

A community joining together to create a large safe haven around a protected wildlife area, converting hostile and marginal habitat for wildlife into survivable and supportive habitat.

The halo project is about creating a protective buffer zone, controlling or removing if possible, mammalian pests and enhancing habitat from initially a 1 kilometre buffer around Zealandia. This distance may vary in some locations to ensure strategic links to existing habitat areas (e.g. Otari-Wilton's Bush) and other community conservation projects (e.g. Makara Peak). If successful, the project will provide the template for extending the buffer zone further to benefit a wider area, or create new buffers around other significant areas. A zone of this size should allow us to determine, at a reasonable cost, the feasibility of implementing such a 'halo', as well as the conservation outcomes. It will also enable the partners to prove the concept so the model can be replicated elsewhere.

The halo can be expanded into a coordinated campaign by neighbours of Zealandia and Otari Wilton's Bush, to provide safe and supportive habitat for native species. This concept has been adopted and launched by the Morgan Foundation under their related project – Enhancing the Halo, see www.halo.org.nz

Working with neighbours: Efforts will be made to educate local residents and visitors of the predatory effects of domestic cats and dogs, and offer advice as to how to reduce the impact of their pets on the wildlife of Otari-Wilton's Bush. They will also be encouraged to provide habitat in their gardens for native wildlife, to remove weeds and plant appropriate species and to watch what goes down the stormwater as it affects the Kaiwharawhara stream.

5.3.3 Policies - riparian management

- Council shall continue to seek improvement in the water quality of the Kaiwharawhara Stream to a level that meets the relevant standards set by Greater Wellington Regional Council
- Revegetation along riparian zones will be encouraged in order to prevent degradation of stream banks and stream life; with the exception of the Troup Picnic Lawn.
- Otari-Wilton's Bush will continue to contribute to the objectives of Project Kaiwharawhara.

The Kaiwharawhara Catchment is an area of intensive restoration work; much of which is carried out by community volunteers. Nearly 20% of the Kaiwharawhara Catchment is covered by native vegetation, and the forest area of Otari-Wilton's Bush is a significant part of this.

Protecting and enhancing the forest ecosystems of Otari-Wilton's Bush has always been a fundamental role of the reserve. In recent years there has been a shift in focus from just the remnant forest, to the wider ecology of the Kaiwharawhara

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Catchment. Of particular importance is the role of Otari-Wilton's Bush as an ecological corridor, both for bird movement from Zealandia, east to the mouth of the Kaiwharawhara Stream, and north along the Outer Green Belt; and as a biodiversity pocket for fish and aquatic invertebrate movement along the Kaiwharawhara Stream.

In 2002, fish sampling within Otari-Wilton's Bush found the following species: banded kokopu, long finned eel, koaro, as well as some brown trout.²³ During the Bioblitz in 2007 redfin bully were also observed, probably due to the recent installation of a fish ladder downstream.

Currently, the main issue for the Kaiwharawhara Stream is pollutants from stormwater run-off, particularly during high peak flow events. Leachates from the upstream landfills are directed into the sewer system, and most of the main sewer line running along Kaiwharawhara Stream was replaced in the 1990s. These are monitored in accordance with infrastructure asset maintenance requirements.

Stream bank erosion caused by storm water flow from culverts is another issue. This is being mitigated by some of the voluntary planting carried out as part of *Project Kaiwharawhara*, the community catchment protection project.

There is an opportunity for Otari-Wilton's Bush to advocate for stream and water quality protection in liaison with Greater Wellington Regional Council.

Both the forested area and stream are already used for research by tertiary students, adult education and occasional school groups.

5.3.4 Policies - Monitoring and research programme:

- The seasonal five minute bird count programme will be continued. In addition, monitoring for bird breeding success will be established.
- Research and information gathering of the presence of native fauna, including aquatic fauna, invertebrates, and herpetofauna will be supported.
- Investigate the establishment of a joint research and monitoring programme with Zealandia, Greater Wellington Regional Council and research institutes to establish the success of Project Halo.

5.3.5 Implementation – Cultural and natural history

Theme	Action
Cultural history	<ul style="list-style-type: none"> • Facilitate the collation and publishing of a history of Otari-Wilton's Bush.
Forest management	<ul style="list-style-type: none"> • Investigate plant species that could be considered sparse, or are now absent in the Otari forest, and trial and monitor recruitment planting of these species, including Podocarpaceae members. • Consider reintroducing fauna known historically to have occurred in the Wellington Peninsula forests where possible in conjunction with Zealandia.

²³ Source: Kingett Mitchell Ltd (June 2002). *Ecological condition and health of the Kaiwharawhara Stream, Wellington*. Prepared for Wellington City Council.

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	<ul style="list-style-type: none"> Retain and manage the planted kauri, podocarp and native beech groves that are planted in the vicinity of the Red Trail and Flax Clearing.
Pest management	<ul style="list-style-type: none"> Sustain a possum and rodent control programme in collaboration with Greater Wellington Regional Council. Sustain a mustelid control and monitoring programme with RAMBO.²⁴ Control or removal of other pest species as required. Monitor the population of eastern rosellas and their impacts on native biodiversity.
Weed management	<p>The focus of a weed management programme will be:</p> <ul style="list-style-type: none"> Species led control of priority weeds including old man's beard, tradescantia, etc. A programme to remove young karaka seedlings to prevent further spread in the area job Wilton initially fenced. Monitoring the spread of non-local natives particularly <i>Hoheria populnea</i> and <i>Pomaderris apetala</i>, and <i>Pittosporum ralphii</i>. Monitoring and surveying the current cover and distribution of <i>Berberis darwinii</i> and developing a long term programme to limit spread. Riparian management. Co-ordinating weed control on adjacent Wellington City Council land. Promoting to Otari neighbours how they can be 'Otari friendly' with regard to responsible pet ownership and creating wildlife friendly gardens.

²⁴ **Rat And Mustelid Blitzing at Otari.**

5.4 Recreation and Visitor Use

Otari Wilton's Bush is one of the City's largest nature based visitor attractions offering recreational opportunities and experiences amongst New Zealand's unique flora and natural heritage.

Otari Wilton's Bush is a popular recreational destination with the local community, however according to previous visitor surveys nearly half of the more than 80,000 people who visited Otari Wilton's Bush in 2012 came for a walk or recreation and 24% came especially to see or learn about plants. With its unique 'sense of place', New Zealand botanical collections and environmental and cultural learning experiences and connections, Otari Wilton's Bush is ripe for discovery by more people.

There are two primary entrances to Otari-Wilton's Bush on Wilton Road: the *Banks Entrance* to the main garden area with its commanding views across the valley and the *Carpark Entrance* further north along the road. Near the *Banks Entrance* but screened from the public are the Curator's house and small plant nursery. The combined Information Centre - Te Marae o Tane, staff offices and workshop are located in a building midway between the two Wilton Road entrances. There is also a second extensive garden area behind the *Carpark Entrance*.

From the garden areas, tracks drop down to the Kaiwharawhara Stream either to the open *Troup Picnic Lawn* (with toilets and barbecue facilities) or through mature podocarp forest. A car park and another picnic area (North Picnic Lawn) are reached from the low point on Churchill Drive, another primary entrance to the reserve. Wilton Bush Road is also accessed from here, leading to the privately owned Wilton House. A network of tracks provide loop walks through forest and clearings and give access to the suburb of Chartwell, to the Karori Cemetery, to Ian Galloway Park, and to the Outer Green Belt Skyline Track and Johnston's Hill Reserve.

Otari Wilton's Bush Landscape Development Plan 2010 (LDP)

In 2010 the LDP was prepared. It recommended some key projects to improve the visitor experience at Otari Wilton's Bush and ensure the provision of a high quality garden environment for the enjoyment of visitors and users. It sets out an overall concept for the development of Otari Wilton's Bush, including main character areas, key focal points, the track network and location of visitor and management facilities.

The major initiatives in the LDP are identified in the Implementation Plan, either as a priority for implementation or requiring further review or analysis

5.4.1 Policies - Enhancing the visitor experience and sense of place

Preserve and enhance Otari Wilton's Bush site experiences.

Otari Wilton's Bush offers three key site experiences;

1. Botanic gardens expressed through the cultivated collections
2. The Primary forest

3. The transitions or 'Moments' as referred to in the LDP, where the relationship between the cultivated and the wilderness is clearly apparent.

These three experiences are fundamental to the Otari Wilton's Bush experience and need to be preserved.

5.4.2 Policies - Providing quality visitor facilities and services

Entrances and car parks

- The Wilton Road Car park Banks Entrance, Wilton Road (pedestrian only), North Picnic Lawn, Churchill Drive (car park) entrances will be maintained and developed as outlined in the implementation plan;

Entry to Otari Wilton's Bush is possible from all sides which is important to frequent users. Many recreational users prefer to access the Reserve through the Churchill Drive entry, while botanical visitors and first timers tend to use the entries around the plant collections.

The LDP proposes to redevelop the pedestrian entry from Wilton Road car park to Te Marae O Tane, to create a more immediately immersive visitor experience and relocate the Banks entry and better integrate the house into the Otari Wilton's Bush experience.

The LDP also identified a possible development of a new entrance and visitor facilities where the Wilton Bowling Club is now. The Wilton Bowling Club is on land leased from the Council and is bordered on three sides by Otari Wilton's Bush. The lease was reviewed and renegotiated for another 10 year term in 2012. If the land and buildings ever became available then the area should be considered as an addition to Otari Wilton's Bush.

Free car parks for Otari Wilton's Bush visitors are provided at both the Wilton Road entry and the Churchill Drive entry, with each car park having 20 bays. There is also a smaller car park (5 bays) at the John Witton Drive entry and Otari Wilton's Bush visitors can park at Ian Galloway Park.

Circulation and orientation

The existing path and track network through Otari Wilton's Bush is sufficient in quantity and allows visitors to experience most parts of Otari Wilton's Bush. The LDP identified sections where the visitor experience could be better enhanced by improving layout and circulation through main attractions, creating a path hierarchy, developing transitional areas or 'moments' and surface upgrades.

The key pathway strategies identified in the LDP include;

5.4.3 Policies - The Collections Areas (from LDP)

The areas will:

- Provide a main path with disabled access that links the existing main car park, the deck, the canopy walkway, Cockayne Lawn and the newly organised collection areas.
- Provide secondary paths at areas of interest
- Provide a circular path in the collections areas that highlight the reorganised vegetation types where appropriate
- Develop transition points on the main path – these would be a place to appreciate the surroundings, provide interpretative signage, seats and views to the forest and between collections.
- Ensure the main path immerses visitors in the bush, collections and representation vegetation types.

A clearly defined main path through the native botanic gardens areas is paramount to the visitor experience. Laid out originally in the 1920s, the terrace style used in the collections below the Cockayne lookout does not provide a coherent, easy route for visitors. With no clear hierarchy of paths it is difficult to decide which path to take. A central path with secondary loops returning to the central path will provide some clarity for visitors of where to go.

The Wilderness Areas

- Enhance the Kaiwharawhara Stream path by improving the quality of existing surface finishes and structures, establishing view shafts and making it easier to appreciate the stream.
- Provide direct access to the Troup Picnic Lawn from Kaiwharawhara or from the Circular Walk path at the Wilton Road entrance, taking pressure off the collections areas.
- Improve the quality of the walkways and tracks
- Rename paths to reflect their cultural significance
- Incorporate distance and way –finding changes into directional signs.

5.4.4 Policies - Visitor Facilities

- Toilets will be provided at each of the buildings and the Troup Picnic Lawn.
- The provision of any new toilets will be based on user demand and environmental impact.
- The current picnic areas (The Troup Picnic Lawn, North Picnic Lawn and the South Picnic Lawn) will be maintained and upgraded, including the erection of structures and the maintenance of barbeques facilities in accordance with user need and in a manner that does not compromise the natural beauty of the area.

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- Seating will be provided at regular intervals and based on user demand.
- Use vegetation to provide wind protection where possible.

Enabling access to all

Getting to and finding Otari Wilton’s Bush can be difficult for some, especially with the circuitous road network, no bus stop at the main entrance and no defined pedestrian access route from the central city to Otari Wilton’s Bush. Further investigation into how we can improve transport and way finding options to Otari Wilton’s Bush is required.

Efforts have been made to ensure Otari Wilton’s Bush is accessible for all and it’s important to continue expanding these opportunities where practicable, particular access for wheelchair users and prams.

5.4.5 Policies - Encouraging and catering for casual visitor use

- Continue to provide for a range of pedestrian based recreational experiences from back country routes to easily accessible paths
- Maintain links with the Outer Green Belt, Kaiwharawhara stream and reserve network
- Continue providing advocacy and signage advising dog walkers of their responsibilities and mountain bikers that the Reserve is closed to mountain biking.

5.4.6 Policies - Managing events and organised activities’

- The following areas may be hired out for appropriate private functions and uses and bookings made through the Treehouse Visitor Centre Booking system.
 - The information centre and public education space.
 - The Cockayne Lawn
 - The Troup Picnic Lawn

5.4.7 Implementation (based on initiatives in the LDP)

Theme	Action
Recreation and Visitor use	<ul style="list-style-type: none"> • Continue constructing a central pathway through the collections with viewing points and links onto the Circular Walk and Nature Trail as proposed in the Landscape Development Plan. • Change the Banks entrance to the North side of the house and relocate the nursery to the existing site of Banks Entrance. Alternatively provide access to the nursery from Wilton Road. • Develop a circular walking circuit through the collection from the North picnic Lawn.

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	<ul style="list-style-type: none">• Investigate the construction of a lookout structure above the beech collection access from the new circular walking circuit identified above.• Redevelop the Churchill Drive Entrance to encourage access into the Reserve and use of lawn areas.• Continue to refresh and upgrade the edge along Wilton Road next to Otari to include planting and a more coherent streetscape that provides hints of the qualities of Otari- Wilton's Bush forest and gardens.• Develop a furniture and finishes strategy for Otari• Investigate reconfiguring the pedestrian entry from Wilton Road car park to the existing visitor Information Centre, Te Marae O Tane.• Investigate improving transport and way finding to Otari-Wilton's Bush.• Investigate relocating the existing bus shelter to a more prominent position to the west along Wilton Road• Investigate developing of a multi-purpose track naming and identification system that is better associated with the history and experiences of Otari, as part of the Interpretation and way finding strategy.• Investigate linking Otari Wilton's Bush with the Te Araroa National Walkway.• Continue providing advocacy and signage advising dog walkers of their responsibilities and mountain bikers that the area is closed to biking.
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5.5 Partnerships and community involvement

The Otari Wilton's Bush Trust was formed in 1999 and grew out of the redevelopment of Otari Wilton's Bush in the late 90's. Today the Trust works closely with the Wellington City Council to preserve, protect, develop, and interpret the Garden.

The Trust has many roles including:

- Running guided tours to encourage public interest in the Garden
- Providing hosts at the weekends, at events and during cruise ship visits to provide information to garden visitors
- Fund raising for specific projects such as the Cockayne Centre
- Managing projects such as revegetation of the Kaiwharawhara stream
- Lobbying in support of the garden.

5.5.1 Implementation

Theme	Action
<i>Fund raising</i>	<ul style="list-style-type: none">▪ The Friends of the Botanic Gardens will support and work with the Council to raise the funds needed for the Children's Garden.

6 Bolton Street Memorial Park

Bolton Street Memorial Park was developed from three 19th century cemeteries for the Wellington colony: the Public, Church of England and Jewish. As well as containing the historic memorials, it has an extensive collection of heritage roses and a visitor centre displaying information on the graves.

The Cemetery is divided in two parts by the Wellington suburban motorway. The upper half located on the slope below Anderson Park, including the Seddon Memorial, is joined to the lower part by a pedestrian footbridge. It provides an essential green link between the Wellington Botanic Garden, the Terrace and the CBD.

It is Wellington's earliest cemetery set in a distinctive heritage landscape containing the graves of over 8600 people. It comprises 1334 visible memorials and headstones commemorating the City's early colonial history, resting amongst a heritage rose collection and mature trees. Beneath the lawns are thousands of unmarked graves including approximately 3700 graves disinterred to make way for the Wellington motorway and placed in a mass grave.

It has a peaceful and contemplative ambience. The layout is informal and irregular emphasising its historic character. Rich in detail of pathways, historic artefacts and plants the Cemetery invites quiet exploration and appreciation of Wellington's colonial history and as a retreat from the city.

A detailed historical outline is included in Appendix 2.

Historic Significance

The Memorial Park is an Historic Reserve under the Reserves Act 1977 and a Heritage Area under the District Plan. It is historically significant for a number of reasons.

- Together with Mount Street (Roman Catholic Cemetery) it was the first Wellington burial ground. It commemorates many early pioneers such as Edward Gibbon Wakefield and John Plimmer.
- It has wide historical links in commemorating notable leaders such as Richard John Seddon, Harry Holland, Samuel Parnell and James Edward Fitzgerald.
- It is a good example of a typical 19th century cemetery with its memorials of stone, iron and wood forming an irregular vertical profile made up of slabs, pedestals, statuary and crosses. The wooden memorials are particularly unusual and important.
- The number and variety of fences surrounding the graves are of particular significance. They are comparatively rare in New Zealand and, quite apart from their historical value, are extremely attractive in the variation of their patterns, whether in wood, cast iron or wrought iron.

6.1 Identity and name

In the early days of settlement each of the three cemeteries in Bolton Street had their own identities, entrances and distinct names. Once the cemeteries at Bolton Street

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were closed to all burials except for next of kin in 1892 the whole area gradually became known as Bolton Street Cemetery.

When the significant motorway changes took effect in the 1960s, the idea arose of referring to the remaining burial ground and re-landscaped area as a memorial park, the first suggestion being the Early Settlers Memorial Park but the final decision being the current name of Bolton Street Memorial Park. The official opening of the Bolton Street Memorial Park took place in 1990.

The management plan review is an opportunity to review this name and return to the previous name. Reasons include:

- The word “cemetery” reflects more closely the history and significance of the area. Although it is a closed burial ground, it continues to be a cemetery because human remains are interred there. It is unusual in New Zealand for a burial ground not to be described as a cemetery.
- The customary usage is to refer to it as Bolton Street Cemetery despite the previous name change.
- The public do not necessarily associate the term “Memorial Park” with a cemetery. This is likely to be exacerbated and also lead to further confusion when the National War Memorial Park is opened in Buckle Street
- Calling the area Bolton Street Cemetery will give it a recognisable identity for visitors, give it a clear identity as a cultural destination and make it easier to for researchers through the internet.

Naming of open space is guided by the Open Space Naming Policy. This policy only applies to new or un-named open spaces and is not used to rename already gazetted or Council approved names. There is no specific record of the name having been gazetted but it has been given official Council status through the park reopening and its use as an official name through the management plan.

6.2 Cultural and Natural heritage

Bolton Street Memorial Park has a peaceful and contemplative atmosphere appropriate to a cemetery. The layout is informal and the garden, with its many naturalised plants growing in profusion, has a ‘wild,’ ‘old world’ quality that adds to the sense of history. It is rich in detail of pathways, historic artefacts and plants. Apart from the main gully system, it is very much a created and constantly tended landscape aimed at safeguarding a unique piece of Wellington’s cultural history.

6.2.1 Policies - Landscape character

- The relaxed and informal character of the Memorial Park shall be maintained.
- In appropriate areas the ‘wild’ garden theme of naturalised garden plants that were introduced during the nineteenth century shall be maintained, provided that graves and monuments are not damaged by vegetation.
- The historic character of the Memorial Park shall be maintained and no buildings other than the Memorial Chapel, Sexton’s cottage and equipment shed shall be permitted.

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- Management of the tree framework shall be governed by the policies the Tree Plan²⁵ In particular
- Vegetation shall be controlled to prevent the destruction, damage or obliteration of graves and monuments based on the Maintenance and Repair Guidelines.
- Planting shall, in general, be with species and plant associations that are in keeping with the nineteenth century character and style of the cemetery taking into account:
 - Planting associated with particular graves is to be in keeping with the character and style of the graves;
 - Trees are to be planted where the roots, at maturity, will not damage graves;
 - Open areas are to be maintained along the main walking and interpretation routes for visitor safety, and to preserve vistas.
- The potential for providing food sources for native birds shall be considered when selecting species for replanting.
- Existing plantings adjacent to the motorway shall be gradually replaced with a mixture of local native species and species of nineteenth century character..
- Those parts of the Memorial Park which are to be managed as 'wild garden' and 'semi-wilderness', including areas of regenerating native bush, shall be clearly identified.
- The heritage rose collection shall be managed and developed with an emphasis on species and varieties available in the nineteenth century and early twentieth century

In 2006 maintenance and repair guidelines for graves were prepared²⁶ that focussed on

- The broader implications of vegetation, extent, type and character and its specific impacts on graves together with suggested remedial measures.
- A repair and maintenance philosophy for graves and monuments, methods of cleaning, and appropriate repair techniques.

Planting Character and Tree Framework: The semi-wilderness and over-grown nature of the plantings in Bolton Street Memorial Park is an important part of its character. Many of the mature trees have historical interest as their planting dates back to the early days of the cemetery and many of the ornamental plantings throughout the main burial areas are 'old world' garden plants that were introduced in colonial times.

Some plants were apparently associated with particular graves, but many appear to have self-seeded and colonised areas and sites. The areas of regenerating native bush add to the semi-wilderness character and are in keeping with the early history of the cemetery, when David Robertson, the first sexton, planted many native species to preserve them from extinction.

We can broadly divide the vegetation into:

²⁵ Tree Plan Wellington Botanic Garden (for amenity and framework trees) 2011 – note the plan includes Bolton Street Memorial Park

²⁶ *Bolton Street Memorial Park – Maintenance and Repair Guidelines for Graves* Titchener Monzingo Aitken, Landscape Architects and Chris Cochran, Conservation Architect (2006)

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Closed Canopy Native Vegetation comprising some of the plant species that typified Wellington's pre-settlement coastal and semi-coastal forest. Such native vegetation is dominant only within the extensive gully system in the main body of the Park (above and west of the Urban Motorway) generally south-west of Strang Path and the upper section of T H Fitzgerald Path. Recent removal of trees adjacent to or damaging graves has opened up these areas leaving only small pockets of the original vegetation.

Mixed Exotic and Native Vegetation containing a much more random plant association than the preceding with some of the plants having been planted. It is drier and more exposed than the closed canopy native vegetation, with greater light penetration, and lacks the tiered structure of the closed canopy.

The interface between native and exotic vegetation is variable. For instance, native trees as specimens and groups are found throughout the Park within areas of predominantly exotic vegetation. Generally exotic vegetation tends to predominate along the motorway boundary and, to a lesser extent, along the Bolton Street boundary where it is mixed with native vegetation.

Heritage Roses and Climbers that are found growing within graves and/or growing on the support structure or where the structure was formerly surrounding the grave. They are distributed throughout the cemetery many dating back to the late nineteenth or early twentieth century. They provide historic interest and amenity appeal. In the 1980's the importance of these early plantings was recognised and a heritage rose collection was gradually established. The collection now includes over 100 varieties of old roses. Heritage Roses New Zealand recognises the collection and assists with guided tours and pruning demonstrations.

Framework Trees tend to be readily visible large-scale specimens in their own right, predominantly exotic, coniferous and, therefore, evergreen. Native signature trees are exclusively pohutukawa and while pohutukawa has become naturalised and prevalent throughout Wellington it was not part of the pre-settlement native forest.

The trees are fairly evenly distributed throughout the lower portion of the Park and also throughout the main body of the Park, apart from the gully system described previously. Duration of the existing conifer framework in the park is unknown and changes, probably from storms, are likely to be sudden and dramatic

The existing vegetation has, in many cases, a direct bearing on the condition, visibility and appreciation of the graves. The management of the existing vegetation and the introduction of new planting is of the utmost importance.

6.2.2 Policies - Graves and Monuments

A maintenance and repair philosophy for the Cemetery is based on the principles espoused in the ICOMOS *Charter for the Conservation of Places of Cultural Heritage Value*, widely accepted in New Zealand and Australia as providing a benchmark for conservation practice.

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Over 8,500 people have been interred in the cemetery. There are about 1,334 visible tombstones and other memorials - 600 in their original location and 734 re-located after the construction of the Wellington urban motorway.

- All graves, monuments and surrounds shall be maintained and managed based on the Maintenance and Repair Guidelines for Graves²⁷ and any subsequent amendments
- Graves and monuments, especially those that are well known, shall be regularly inspected for damage from vandalism or vegetation and for signs of general decay.
- Where damage occurs, immediate steps shall be taken to prevent further damage and repairs carried out as soon as possible. Wherever possible, Council will seek to recover the cost of repairs from the next of kin.
- Repairs should follow the form and style of the original. Replacement materials, such as wood and chain fencing, should be finished so that more recent treatments such as tanalising or galvanising are not apparent.
- Vegetation around graves and monuments shall be managed to protect the graves and monuments from damage and to maintain adequate visual and physical access.

Interested parties, such as family, shall be consulted, provided that they can be contacted, before beginning major restoration work. In addition, the Council's intention to carry out annual remedial work shall be publicly advertised in accordance with the Burial and Cremation Regulations 1967, giving specific details of the headstones and memorials.

All grave and monument fragments shall be securely stored and catalogued to be available for restoration work.

Records of all historic assets within the cemetery and any that may be stored off site shall be kept up to date with records of damage, remedial work and significant alterations noted.

The graves and monuments are the main features of Bolton Street Memorial Park. They are a valuable historic record and a source of great human interest but many of the memorials and surrounds are quite fragile and vulnerable to damage. Access to the graves is important both for the families and interested members of the public so it is essential that reasonable access be provided to graves to avoid unnecessary clearing by visitors.

Maintenance and Repair Philosophy: The maintenance and repair philosophy is based on the over-riding principle of doing the minimum required. This is the best guarantee of retaining the authenticity of each grave.

In the words of the Historic Cemeteries Conservation Trust of New Zealand,

Do as much as necessary, and as little as possible.

^{27 27} Bolton Street Memorial Park – Maintenance and Repair Guidelines for Graves Titchener Monzingo Aitken, Landscape Architects and Chris Cochran, Conservation Architect (2006)

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In increasing levels of intervention, conservation work may involve:

- Doing nothing
- Cleaning, weeding, general maintenance etc
- Stabilising
- Repairing
- Restoring
- Reconstructing

Generally, while most graves will require, at one time or another, cleaning and general maintenance, work of a higher level of intervention should be carefully rationed.

Doing nothing: This is appropriate for graves in a stable but weathered condition, and in some cases for graves that have decayed to such an extent that repair is no longer feasible. This fits the ethos of a closed cemetery, where graves will slowly weather and age. The patina of age, weathered surfaces and the evidence of slow change over time are aesthetic qualities that contribute significantly to the importance of the cemetery.

This should remain an option given the financial constraints of cleaning and maintaining graves as identified in the next option.

Cleaning, weeding, general maintenance: If graves are to have a long life, some basic and regular maintenance is essential. A well maintained grave will survive the detrimental effects of weathering and time better than one that is not maintained.

Maintenance should be carried out on a planned basis. Methods should be as benign as possible, should minimise any change to heritage fabric, and in particular should aim to preserve the patina of age.

Stabilising: Graves should be stabilised where they are at risk of collapse. Such work involves preventing things from getting worse by propping, building a new foundation or tying elements together.

Repairing: Repair involves putting things back as they were; not to as new condition, but to a secure, tidy state where all elements are in good condition and stable for their age.

Where it is decided that repair should be carried out, several principles apply.

- Repair rather than replace
- Repair in compatible materials
- Use traditional techniques as guidelines
- Ensure new work is identifiable and can be reversed
- Identify cause of failure

Restoring: Restoration of lost features should be carried out only if there is clear evidence of the original form and detail. Restoration would be carried out only in

special circumstances such as in the case of the grave of an important person, or a grave that has (or had before being damaged) particular aesthetic significance.

Reconstructing: Reconstruction implies the more or less complete rebuilding of a grave, utilising some extant parts but incorporating a significant amount of new material. As for restoration, it should only be attempted if there is clear evidence of the original form and detail, and only in very special circumstances, where for example, a grave of historic or aesthetic value was badly damaged by a falling tree, landslide or vandalism.

Reconstruction is a valid option in BSMP, since many graves were dismantled and reconstructed (or more accurately partially reconstructed, since it was headstones alone rather than complete graves that were brought back) after the advent of the motorway in the 1970s.

Although the cemetery is closed and administered as an historic reserve, the

headstones and memorials still legally belong to the family of those buried. Where family members can be contacted, their permission is needed before remedial work can be undertaken and the cost of remedial work should be passed on to the family.

6.2.3 Policies - Burial Records and New Interments

- No tablet may be added or ash interment occur in the area of a reinstated memorial.
- New tablets, additions to existing memorials and ash interments shall only be permitted in existing or known graves. The Botanic Gardens Manager shall approve such applications, in consultation with the Friends of the Bolton St Memorial Park.
- New tablets should complement existing memorials in terms of size and location and shall be in similar materials, lettering style and shape to other memorials on the plot.
- Where space exists for lettering to be inserted on an existing memorial, the wording and setting out must be in keeping with the existing memorial and shall be in a similar lettering style.
- Families should be encouraged to fund/contribute to costs associated with the placement of new tablets and additions to new memorials
- No artificial flowers or other elements extraneous to the heritage character of the cemetery are permitted to be placed in the cemetery.
- Both the Sexton at Karori Cemetery and the Botanic Garden Manager shall approve applications for new interments of ashes and register all new interments in the Public Cemeteries Register. The Sexton shall be responsible for verifying and recording amendments to the Burials List on the Database, in consultation with the Friends of Bolton Street Memorial Park.
- New interments will be appended to the burial list held at the Chapel.
- An up to date electronic list of Burials shall be maintained on the Council's Cemeteries Database and made available to the public.
- An up to date List of Burials, either in hard copy or electronically, listing those identified as having been disinterred for the motorway and dedicated to them shall be held in the Memorial Chapel.

Although the cemetery is closed to burials, relatives occasionally request to have ashes of a family member interred and acknowledged within a family plot, or interred under a single family member's reinstated memorial (a relocated memorial whose grave has been dismantled.) This is permitted, but new acknowledgements must be in keeping with the historic character of the cemetery.

A memorial is defined as any marker in stone, wood or iron. A tablet is a small rectangular stone memorial, usually additional to the main memorial.

In recent years the Friends of Bolton Street Memorial Park have compiled a full list of burials in the cemetery and a list of those disinterred during the motorway construction. This is a valuable record of the Park's history, which will be require regular updating as more information is obtained from on-going research.

6.2.4 Policies - Heritage Buildings

- The Sexton's Cottage shall be managed according to the conservation plan and used for short term accommodation
- The Historic Places Trust shall be consulted about any proposed alterations to the structure of the Memorial Chapel, to ensure that the replicated architectural integrity of the building is retained.
- The displays and information material in the Chapel should be reviewed and refreshed at appropriate intervals.

There are two buildings with heritage value in Bolton Street Memorial Park.

The Sexton's Cottage, dating from 1857, is registered as a Category II Historic Building with the Historic Places Trust and is listed as a heritage item under the District Plan. The cottage was previously used as accommodation for botanic garden staff but more recently has been used for short term "artists in residence" accommodation. Future use is likely to be based on short term accommodation including possible visitor accommodation rather than being open to the public. The adjacent chapel provides suitable visitor facilities and information on the Park.

The Memorial Chapel is a replica of the mortuary chapel that was built in 1866. The original was dismantled to make way for the motorway but had deteriorated too much for it to be reconstructed. The Chapel contains interpretation on the park, and the Memorial Book containing details of all those buried in the three cemeteries.

6.3 *Visitor Experience - Recreation and access*

Bolton Street Memorial Park is an inner city park close to the cbd provides a peaceful space for passive recreation and use by local residents, officer workers and tourists. It tells the colonial history of wellington and is a popular place for genealogists, relatives and researchers.

The City to Sea Walkway and the main route from the Cable Car to the cbd pass through the Cemetery. It is also a major commuting route for walkers from Kelburn, Northland and Thorndon.

Access, parking and entrances

The main entrances are at Bolton Street by the Memorial Chapel and the Seddon Memorial adjacent to Anderson Park. There are also several secondary entrances generally accessed by locals.

Vehicle access is limited to a small car park off Kinross Street with a two hour limit which is shared by visitors to Anderson Park and the Lady Norwood Rose Garden. Parking near the Bolton Street entrance is limited to on street metered Council parks. There have been initiatives to charge for parking at the Seddon Entrance in conjunction with Rose Garden parking. These have never been approved and implemented by the Council.

There is an extensive network of paths and walkways consistent with an historic cemetery. Over the past twenty years there has been an extensive programme to upgrade the path network and improve directional signage and information. This has opened up new parts of the Cemetery for visitors and given better access to the historic graves.

Visitor facilities

The location of the cemetery close to the Wellington Botanic Garden and the CBD means that it does not require major visitor facilities. This is consistent with the historic nature and role of the Cemetery.

There is visitor information and interpretation in the Memorial Chapel off Bolton Street. There are no public toilets in the Cemetery but they are located near the Seddon Memorial entrance (Anderson Park Cricket Pavilion) and in the CBD (Bus terminal and railway station).

Information and interpretation

An Interpretation Strategy was prepared for the cemetery in the 1990's and there has been an enhanced visitor experience through the development of interpretation based on the following themes:

- Colonial history of Wellington in particular church history and stories of the early colony through individuals buried there
- Motorway protest and development
- Heritage roses
- Architectural interest in particular the chapel and sexton's cottage.

Interpretation takes several forms:

- Memorial trail identifying graves significant for historical or architectural reasons.
- Leaflets relating to the Memorial Trail and about identifying graves.
- Guided tours run by the Friends of Bolton Street Memorial Park.
- Displays in the memorial chapel

6.3.1 Policies - Events and activities

- Small events and activities are allowed that are in keeping with the historic nature of the cemetery and will generally be limited to the grass spaces above the car park
- No events shall take place on the mass grave.

The nature and quiet ambience of the Cemetery mean that it is not suitable for large community events, apart from guided tours and activities associated with interpretation. Small functions can take place in the Memorial Chapel but this does not have suitable facilities such as a kitchen or toilet. The adjacent memorial lawn containing the mass grave is unsuitable for activities and events.

6.4 *Partnerships and community involvement*

The history of Bolton Street Memorial Park is closely linked with the Friends of Bolton Street Memorial Park. The society grew out of the Bolton Street Cemetery Preservation Society established in 1964. out of community concern for the well-being of the cemetery, during and following motorway construction and the need to recognise the overall values of the cemetery. Today the Friends work closely with the Wellington City Council to preserve and develop the heritage aspects of this historic cemetery. The Society's primary aim is defined as being "to preserve, protect and enhance for the public benefit the three Wellington historic cemeteries now known collectively as the Bolton Street Memorial Park".

6.4.1 Policies

- A close relationship shall be maintained with the Friends of Bolton Street Memorial Park and their role in assisting with management and promotion of Bolton Street Memorial Park.

The Friends of Bolton Street Memorial Park was formed in 1977 out of community concern for the well-being of the cemetery, during and following motorway construction and the need to recognise the overall values of the cemetery. Today the Friends work closely with the Wellington City Council to preserve, protect and develop the heritage aspects of this historic cemetery.

One of the original roles of the Friends was the preparation of an authoritative combined Burial List for the three separate town cemeteries. This list has been compiled over a number of years from diverse and sometimes conflicting historic records of varying degrees of reliability. It is constantly up-dated as family members and researchers identify fresh information. An up to date burial list can be accessed on the Friends website and at Karori Cemetery. New technologies provide opportunities to build electronic maps and use such tools for location finding.

The Friends of Bolton Street Memorial Park have many roles in addition to assisting the Council with managing and updating the database. These include

- Maintaining graves and assisting in further development of the park

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- Advising the Council on issues relating to park and grave management
- Running guided tours to encourage public interest in the park

Mount Street Cemetery: The closed Mount Street Roman Catholic Cemetery is situated between Victoria University and the Terrace. It was established at the same time as the three cemeteries at Bolton Street. It is therefore of a similar age, has important early historical interments and has cemetery architecture similar to Bolton Street. The City to Sea Walkway follows the main path of the Cemetery connecting both cemeteries via the Botanic Garden. There is an opportunity to work more closely with the Friends of Mount Street Cemetery and the Archdiocese of Wellington to integrate administrative records and to ensure common standards for maintenance and restoration. Mount Street Cemetery has recently begun a significant memorial and grave refurbishment and grounds restoration programme, partly funded by the Archdiocese of Wellington, Victoria University of Wellington, donations and grant funding. While the Council does not provide resources to maintain Mount Street Cemetery, there are natural synergies between these two historic cemeteries which should be further explored.

Mana whenua

The history of Bolton Street Memorial Park goes back to the early colonial settlement of Wellington. The area was probably already used by Māori for burials and for the earlier traditional processes for dealing with the dead. Both Kumutoto and Pipitea would have used these areas for this purpose. The names of the streams give some indication of that purpose being the Waipiro (evil smelling water) and Tutaenui.

The history of this Park for Māori of the two nearby Pā should be marked in an appropriate way. This should include some additional interpretation within the Park which sets out some of the history of the site prior to colonisation as well as some of the stories of those interred and re-interred in the Park. Stories such as that mentioned above about the mere pounamu (greenstone mere) are poignant as part of more recent history.

6.4.2 Implementation

Theme	Action
Identity and name	<ul style="list-style-type: none"> • Change the name of Bolton Street Memorial Park to Bolton Street Cemetery
Landscape character	<ul style="list-style-type: none"> • Continue the five year Implementation Plan in the Tree Plan²⁸
Graves and	<ul style="list-style-type: none"> • Prepare and implement a five year programme of maintenance and restoration work in consultation

²⁸ Tree Plan Wellington Botanic Garden (for amenity and framework trees) 2011 – note the plan includes Bolton Street Memorial Park

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monuments	with the Friends of Bolton Street Memorial Park. <ul style="list-style-type: none">• Electronically locate all known grave sites and headstones and store them on the Council Geographic Information System, (GIS)
Partnerships	<ul style="list-style-type: none">• Work with the Archdiocese of Wellington to integrate administrative records and maintenance standards between the two historic cemeteries at Mount Street and Bolton Street.• Work with port Nicholson Block Settlement Trust on interpretation that outlines the significance of the site and Cemetery to Maori.

7 Truby King Park

This historic property sits on a ridge in Melrose with magnificent views over Evans Bay, Lyall Bay and Newtown. Formerly the home of Sir Frederick Truby King and his wife Isabella it comprises the original house designed in 1923 by Architect Gray Young, the historic garden laid out between 1925 and 1935 by Truby King and a mausoleum where Frederick and Isabella Truby King are interred.

The 1.9 hectare site was acquired by the Council in 1990 and is classified as Historic Reserve under the Reserves Act 1977.

Objectives

To promote and manage the park as a passive recreational amenity for the use and enjoyment of the public

To reconstruct and manage the historic garden as near as practicable to its original form and character

To protect, manage and use the house and mausoleum in a sensitive and dignified manner

To interpret and promote an awareness and appreciation of the historic importance of *the property and its association with the family and work of Sir Truby King.*

Cultural significance

Truby King is probably New Zealand's most widely known medical practitioner. He influenced the course of health care in New Zealand, both in mental health and more particularly in the health and welfare of mothers and babies. With his wife Isabella he founded the Plunket Society, still active today after over 100 years. He was knighted for his work and accorded a state funeral on his death.

Mount Melrose has great historical significance as the former home and garden of Sir Frederick Truby King and his wife Isabella, modest architectural significance and important landscape significance in the context of a dramatic Wellington hilltop site and developed garden.

Truby King Park as we know it today is one part of the original "Mount Melrose" estate that also comprised the Karitane Products Society Factory and Karitane Hospital. Both buildings remain but are privately owned.

The landscape context of the three buildings and their original role and relationship remains today and provide a unique historic precinct registered by the NZ Historic Places Trust as the Truby King Historic Area. Truby King House, the Mausoleum and the adjacent ex Products Factory building are listed as heritage buildings in the Wellington District Plan.



7.0.1 Policies – landscape character

- No additional buildings or structures to be constructed or located on site which would compromise views to or from the house and garden
- The visual links and view shaft between the house, former Karitane Hospital and the wider landscape shall be maintained
- The Right of Way serving the three properties shall be maintained in its present form

- All above ground utilities shall be placed underground where feasible

Historic summary²⁹

The original 10 acre site on the summit of Mount Melrose was purchased in 1923 by Sir Truby King following his posting to Wellington as the Director of Child Welfare. King commissioned William Gray Young, a prominent NZ architect to design the Karitane Products Factory along with a house that became the family home for the next nine years.

King along with his head gardener Daniel Russell developed the land around the house and factory into a garden featuring exotic roses, a rhododendron dell and a wide range of other native and exotic plants, surrounded by a shelter planting of radiata pines. In addition he constructed an intricate series of roads, paths, wind screens, and an extensive series of brick walls, lookouts and arches which today are a particular feature of the garden.

In 1925 King decided to build a model Karitane Hospital and gifted land at the southern edge of the property. The money for construction was raised by public donation, and in 1927 the hospital was opened by the Duchess of York.

Isabella King died in the same year affecting Truby King greatly. Five years later he made public his intention to gift the house to the Plunket Society. Following his death in 1938 he was the first private citizen to be granted a state funeral, and special legislation was passed allowing King and Isabella to be buried in a mausoleum at the bottom of the hill below the house.

The Plunket Society received the house and garden while the Karitane Products Society took over the Products Factory and adjacent hospital.

The garden was maintained with little development during the 1940's but as the overall costs of maintenance became prohibitive during the 1950's the garden was modified to make it easier to maintain. Much of the original character and original plantings were lost during this time. A survey in 1991 showed that only 3 or 4 of the remaining rhododendrons could have been planted by Truby King.

By the 1970's the Plunket Society was in financial difficulties and in 1978 the Hospital was closed down. It was finally sold in 1982 and since that time has been used periodically as a conference centre. The Products Factory was sold in 1988 and has been converted into residential units.

A detailed historical outline is included in Appendix 2.

Development of Truby King Park: In late 1988 the Council commenced negotiations with the Plunket Society and private owners of the adjacent rhododendron dell which had been identified for possible residential development. By May 1990 the Council acquired these properties plus an adjacent property that provided a relatively easy gradient between the park, Wellington Town Belt and Duncan Terrace.

²⁹ Based on the NZ Historic Places Trust registration report number 7040

The Council carried out extensive background research on the house and garden which culminated in the preparation of the Truby King Park Conservation and Management Plan in 1993. This has guided work on the park over the past 20 years including:

- Repair of the house, including new roof, fire proofing and replacement of underground services
- Reconstruction of the rhododendron dell and path network, cherry lined driveways and hedging. Replanting of the central tear drop. Removal and thinning of pine trees on the eastern slopes below the house.
- Recovery of the garden areas from adventive growth or ornamental species and weeds
- Restoration of the mausoleum
- Reconstruction of some of the brick walls, arches and landscape features. Several major structures remain to be restored especially around the house.
- Replanting of the central 'teardrop' of the house and mausoleum

7.1 The Garden

Assessment and significance

The layout of the Mt Melrose site was clearly influenced by the hilltop nature of the site, the prevailing site conditions and the desire of Truby King to create a pleasant and attractive garden environment. The house was sited on the crest of the hill where it obtained extensive and expansive views. Access to the house from Manchester Street was by way of a long drive which formed a loop driveway around the house and adjacent knoll. The tear drop formed the basis for the inner garden adjacent to the house.

Within the tear drop a path system extended informally from the driveway up to the house. On the southern and eastern sides of the house a brick wall and archway system was constructed. This was carefully planned to frame views from within the house.

On the eastern side of the access road above the Rhododendron Dell a series of viewing platforms were constructed to enable views over the eastern suburbs and Cook Strait as well as provide views into the Dell.

While the planting within the garden has been greatly modified, the essential structure and form of the garden has largely been maintained due to the presence of the extensive brick walls, steps and piers. The only major structural additions to the garden were the stone walls built in the 1950's to retain areas eroding following vegetation removal.

Extensive research during the preparation of the 1993 Plan found copious information on the plants ordered for the garden but failed to locate any useful information or documentation on the eclectic layout or design of the Mount Melrose garden. The garden does not reflect a particular garden style, nor is it based on traditional garden design layouts. The Mount Melrose garden is the individual creation of one person.

7.1.1 Policies - Garden reconstruction and management

- Retain the essential landscape character of the garden by reconstructing it based on the form and character of the garden in the 1940's
- Adapt the planting and range of species used to suit the current environmental conditions and levels of service

Conservation of historic gardens: The International Council for the Conservation and Restoration of Monuments and Sites (ICOMOS) has prepared the **Florence Charter** which identifies approaches to the conservation of historic gardens. Mount Melrose is considered to be a historic garden and worthy of conservation.

The ICOMOS New Zealand charter (2010) notes that conservation may involve, in increasing levels of intervention: preservation, restoration, reconstruction and adaptation.

Preservation: Involves as little intervention as possible, to ensure its long term survival and continuation of its cultural heritage value. This has limitations in a garden context as it involves retaining components of the garden in their existing state and retarding their deterioration. Something very difficult to achieve with living material. It may be possible to preserve elements of a garden structure such as pathways and built elements.

Restoration: Involves reassembly or reinstatement and may involve removal of additions that detract from the cultural heritage value of a place. This involves returning a garden to an earlier form by removal of accretions (additions) or reassembling existing components without the addition of new material. This has limited application where there are several periods of modification and much of the original plant material has been removed or has died.

Reconstruction: distinguished from restoration by the introduction of new material to replace material that has been lost. This involves returning a garden to an earlier form whilst incorporating new material into the garden. This is the preferred option for garden conservation and should be followed if sufficient information and resources are available.

Adaptation: The conservation of a place of cultural heritage value is usually facilitated by the place serving a useful purpose. Adaptation may arise from maintaining its continuing use or from a proposed change of use. This can come about where costs of maintenance are limiting. This could include simplification or modification but should only take place once the following have been completed:

- Recording the existing garden form in photographs and measured drawings
- Evaluating areas to be simplified to restrict damage to the overall garden
- Preparing an inventory of plants and if necessary propagating from these plants if they risk being lost.

The site and its development were thoroughly researched and documented and we have a reasonably clear picture of the original design, the garden development and subsequent modifications.

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A garden constantly changes and can be modified, revised or renewed over time to suit changing needs. The most appropriate strategy is one that accepts changes that have occurred over time provided there is an historical framework showing the clear intent of the original garden.

The 1993 plan proposed to retain the house in its present form and to reconstruct the garden as far as possible to a form and character that best represent the period illustrated in the 1943 photograph.

It is not intended that every brick be replaced or that structures are returned to a pristine condition. The reconstruction and repairs have been based on retaining and protecting the form and character of the garden's layout: upgrading and strengthening where necessary for safety and public use and rebuilding damaged structures and replacing components that for aesthetic reasons require attention. Damaged or missing elements will in some instances be left as they are.

Garden structures should be surveyed to assess the most appropriate conservation intervention that would be suitable. It would be appropriate to identify the significance of each structure where possible for instance those that relate to views from the house. In some cases preservation or restoration might be applicable rather than reconstruction.

The relationship of the house, garden structures, paths to garden and wider landscape needs to be considered. A plan of the site identifying view shafts to and from the house, including how the garden structures frame should be developed. This will identify the changes as significant trees have grown in these view shafts

Garden reconstruction 1993 - 2013: Over the last 20 years, Council's management of the garden has involved;

Removal of extensive areas of weed growth established as a result of many years of neglect of the garden. Much of this work was done prior to the detailed research into the original garden design and enabled the preparation of an inventory of the original plants still in situ.

Rebuilding several of the retaining structures and lookouts including those along the driveway, on the east side of the house and within the rhododendron dell. There are several very large sections still to complete. Many of these will be complex and expensive to stabilise and rebuild. However they need to be completed to enable access to the rear of the house and reduce the risk of damage to the house if they fail during an earthquake.).

Where appropriate input will be required from a suitably experienced heritage engineer. There may be the case to rebuild those in danger of falling and stabilise/maintain others as Truby King constructed them

Planning and replanting of large parts of the Rhododendron Dell in species and cultivars including those known to have been planted by Truby King. In addition removal of wilding trees and their replacement with smaller deciduous trees more in

scale with the area. In addition several tracks were rebuilt. Some of the large pines between the Park and private properties on Duncan Terrace have been removed and have opened up the Dell and provided more light.

Future pine tree removal may expose the garden and house to wind so replanting with native species as a buffer along the boundary should be considered.

The redevelopment of the Dell has been partly successful. Many of the rhododendrons planted have suffered badly from thrips and the level of maintenance has not enabled additional planting of azaleas, camellias and other complementary species, or mulching of the area.

Replanting with smaller deciduous trees some including edible fruit trees is proposed in keeping with the holistic nature of the garden.

Replanting of the cherry avenue and associated hedging has occurred along the driveway. Small azaleas have been planted along the inside of the driveway to provide spring colour.

Further replanting and replacement of tree should occur as required.

Planting the ‘tear drop garden’ or Feature garden has been based on the range of plant species and cultivars used during Truby King’s time but modified to enable a low maintenance regime. Several areas of lawn have been retained for ease of maintenance. This planting is 80% complete. A decision was made not to reconstruct the rock garden on the SE side of the house because of the high development and maintenance costs.

The rear of the house could be developed as a kitchen garden once the landscape structures have been stabilised. This could be managed as a community garden by the trust and local community.

7.2 The House and Mausoleum

Architect Gray Young was commissioned to design a house for Truby and Isabella King in 1923. In its original form the house had an American colonial character, especially the long veranda of the north elevation. The veranda was under the slope of the main roof, supported on large square timber columns with small paned French doors set back on the veranda. Truby King wanted the house to be light and airy hence its construction on top of a hill exposed to the elements. The house was originally designed so that every room received some sun.

The architecture is unpretentious – a plain weatherboard structure and a low pitched iron roof.

Mary King, the daughter of Truby and Isabella King recalls a visitor to Mount Melrose calling it the “House of Windows” and they are certainly a feature of the design. On the north, east and south sides, views of the harbour, hills and open seas are stunning. One window is of particular interest in the study. A large vertically sliding

sash window that could be wound down so that Truby King could use his telescope at night.

Generally the timber used in the house is rimu, both for the framing and interior finishing. Matai was used for the bevel back rough sawn weatherboarding, the exterior trim and some flooring. Jarrah was used for the flooring in the study and living room.

7.2.1 Policies - Future use and management

- Review the long term role of the house to enable managed access for visitors whilst retaining its primary role as a residence
- Provide physical access to the house consistent with NZHPT guidelines that limits impact on the house and garden.
- A maintenance plan and programme will be prepared
- Review the conservation plan and ensure that adaptation of the house to suit a new use does not involve the loss or excessive modification of elements and spaces of considerable cultural significance (see below)

Cultural significance: In 1992 a conservation report³⁰ was completed on the house and included an inventory of spaces grouped according to their relative significance. The evaluation was based on

- the historic importance of the space,
- its ability to evoke the lifestyle and values of Truby King,
- its architectural quality and
- the degree on intactness.

Elements and spaces of **considerable cultural significance** – maintenance and repair are allowable. Priorities for access by the public in any future use:

- Hall and passage
- Bedroom number 3
- Study
- Living room and nook
- Dining room

Elements and spaces of **some cultural significance** – Further modifications to these spaces particularly the boardroom to meet new requirements are acceptable. Other elements include the external facades, original doors and hardware for windows etc.

Elements and spaces of **little cultural significance** – maintenance, repair restoration and adaptation are allowable. These are generally service areas that can be adapted to serve new uses and include the flat and bathrooms.

³⁰ Conservation report 1992, Truby King House, Mount Melrose, Wellington prepared by Chris Cochran.

Add house plan.

A long term sustainable use should be found for the house that involves its retention as an historic site whilst enabling public access on either a regular or managed basis. Access could be to parts of the house that best tell the story of Isabella and Frederick Truby King in the medical and social history of New Zealand as well as the history of Mt Melrose. This could involve development of the study as a small museum with an exterior entrance to enable it to be opened regularly in the same way as the Bolton Street Chapel.

Given its original role as a home and garden it is proposed that it be retained primarily for long term accommodation provided significant parts of the house can be opened up on a managed basis. There have been proposals for the development of the House as a boutique meeting venue or small function centre. However, its location, poor access and wide range of function rooms and facilities in the city suggest that it would struggle to develop as a sustainable use.

There is a need improve physical access to the house. Current access from the Garden and car park is up a series of steps and onto a deck to the front door. NZ Historic Places Trust guidelines recommend where possible access, for all users should not be separated. However there is a much easier access to the rear of the house into what may become in future a kitchen garden and alternative entrance to the house.

7.2.2 Policies - The Mausoleum

- A maintenance plan and programme for the mausoleum shall be prepared consistent with the Truby King Mausoleum Conservation Plan³¹
- Planting around the Mausoleum shall be carried out in a sensitive manner and shall not unduly screen views of the mausoleum and structures associated with it.

The mausoleum was planned by Truby King as a final resting place for himself and his wife, on a site originally occupied by a pergola. The tomb was built in 1936 two years before his death. His wife, who predeceased him, was reinterred with him. It was very unusual for anyone other than a head of state to be buried outside a cemetery and a law was passed to approve it. In 1941 fundraising by the Plunket Society enabled an inscribed granite slab and balustrade to be built above the vault.

The wider mausoleum site includes brick walls, paths and gardens typical of the wider garden landscape. The steps below the mausoleum are flanked by rows of yews and provide a formal approach to this place of solemnity.³²

³¹ Truby King Mausoleum Conservation Plan February 2007 prepared by Michael Kelly

³² Summary based on the Truby King Mausoleum Conservation Plan February 2007 prepared by Michael Kelly

The Mausoleum is in good condition but there are structural issues with the paths and walls that require earthquake strengthening. There is slumping on the east side of the ridge which will require reinforcing in the longer term involving either construction of a new retaining wall on either side of the triangular ridge or installation of retaining piles on each side of the ridge.

7.3 Recreation and use (Visitor experience)

Truby King Park is still a little known visitor attraction. There are regular garden visitors especially during spring when the garden is at its best. An annual open day for the house and garden attracts up to 200 people. The house itself is opened as required for interest and tour groups. In the past few years this has averaged 4-5 groups a year. Being located on the popular Southern Walkway between Mt Victoria and Island Bay the park is used mainly by locals.

Whilst one of the major objectives is to ensure the historic house and garden are managed and protected, it is important they are used and appreciated by Wellingtonians and visitors to the city. The Park needs to provide an outstanding and memorable visitor experience.

7.3.1 Policies - Education and awareness

- An interpretation plan shall be developed to interpret the historic importance of the property and its association with the family and work of Sir Truby King. This shall include:
 - Use of the house as a central information and interpretation centre for the Park
 - A schedule of regular open days and guided tours for the house and garden
 - On site interpretation

The park needs to offer opportunities to both residents who use it as their local park and visitors who will come to experience a unique historic house and garden and learn about the work of Sir Frederick and Isabella Truby King.

The location and size of the property mean that casual visitation will remain low except during spring. Open days and guided tours where face to face interpretation can unlock the stories have been successful and could provide a way of increasing visitation as well as providing memorable experiences. Regular activities where the house and garden are open with guides present to tell stories and give guided walks could increase use and the profile of this special place. For instance regular monthly open days on a Sunday would provide a guaranteed service. In addition provision of on demand tours could cater for out of town visitors/cruise ship passengers and so on. This could be linked to tours of the other botanic gardens or as part of more specialist historical tours.

7.3.2 Policies - Access and visitor infrastructure

- Public access to the house shall be limited to regular events and on demand guided tours.
- Disability access shall be provided into the house

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- Vehicle access and parking shall be restricted and controlled
- The feasibility of providing additional car parking shall be investigated
- Maintain regular contact between the Council and adjoining land owners particularly regarding vehicle access, character of the shared driveway and the landscape character of the grounds.

Truby King Park is a former private residence. Access into and around the property reflects that. In particular:

- The narrow access road from Manchester Street with no footpath and few passing bays
- The one way single lane road around the inner teardrop and house
- The lack of parking space inside the park. There is parking for a maximum of 6 cars around the house
- Very difficult access for large service vehicles
- Conflict between walkers within the Park and vehicles at peak times

In addition, the location of the park above Wellington Zoo off Manchester Street means it is difficult to find and isolated from other attractions. The entrance way itself is not inviting and does not encourage exploration.

In order to maximise pedestrian use and enjoyment of the Park vehicle access needs to be controlled. Visitors will be encouraged to park outside and walk into the Park. Vehicle access will be limited to service vehicles and those attending activities at the house. Consideration should be given to improving walking access from Manchester Street.

The only location where car parking on site can be improved is around the house. There is an opportunity to extend the parking area. Depending on the configuration this may need to be partly located on the Wellington Town Belt. This would be on the basis that parking was also for those visiting and using the Town Belt. The need for increased parking will be linked to any future public use of the house.

The Park is on the route of the Southern Walkway between Mt Victoria and Island Bay. Walking and cycling are allowed on the sealed route through the garden. Cyclists are not permitted to use the smaller garden tracks including those in the Rhododendron Dell.

Within the park, access is limited for those with limited mobility. In particular the steep paths into and through the rhododendron Dell. The house is not fully accessible. Any future public use would need to provide for this.

The Park has legal frontage onto Duncan Terrace in two places. However, the steep ground prevents the building of pedestrian access ways.

Adjacent land use: The main access to the Park is shared with two adjoining owners. Originally both properties were part of the original Truby King Estate. The gardens of the old Karitane Hospital are visually part of the Truby King Park landscape.

7.4 Community Partnerships

The Truby King House and Garden Trust ensure the property is maintained as an accessible community asset.

The Trust looks after the house and is dedicated to conserving the site's heritage values and unique features. It was established in 2002 and works in partnership with Wellington City Council to:

- Help maintain New Zealand's heritage
- Help with the conservation, restoration and maintenance of the house and garden
- Encourage people to visit

Given the main use of the Park by the local community it is important that they are engaged in the park and active in its maintenance and development. This could be in a number of ways including;

- Supporting the Trust on open days and community events
- Helping to maintain and develop the garden
- Fund raising

7.4.1 Implementation

Theme	Action
Garden	<ul style="list-style-type: none"> • complete reconstruction of the hard landscape features particularly the walls and archways around the house • Replace the large pine tree framework with a framework of smaller trees • Open up the views from the house over Evans Bay • Increase the use of edible plant and tree species to emphasise the holistic nature of the garden •
House	<ul style="list-style-type: none"> • Develop a long term plan to enable managed public access to significant parts of the house whilst retaining accommodation for management and security purposes. • Provide accessible access to the house • Develop the house and surrounds as the central interpretation centre for the Park • Investigate increased parking at the rear of the property for use by visitors to the Wellington Town Belt and Truby King Park.
Community	<ul style="list-style-type: none"> • Support the Trust and work with the community to encourage increased involvement and use of the Park by local residents.

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Appendix 1: Land Schedules

Land covered by the Botanic Gardens Cluster Management Plan

Wellington Botanic Garden

Map No.	Certificate of Title	Legal Description	Area (ha)	Status of Land/Date
	CT 48A/126	Pt Lot 1 DP 8530	24.7969	Local Purpose Reserve (Public Gardens). Gazette 1995, page 4324
	CT C2/1321	Sec 1224 Town of Wellington , SO 25200	0.1410	Local Purpose Reserve (Public Gardens) Gazette 1995, page 4324
	CT C2/1321	Sec 1225 Town of Wellington. SO 25200	0.0452	Local Purpose Reserve (Public Gardens). Gazette 1995, page 4324
	CT 25B/56	Lot 1 DP 55960	0.2840	Local Purpose Reserve (Public Gardens). Gazette 1995, page 4324
	CT 25B/57	Lot 2 DP 55960	0.1353	Local Purpose Reserve (Public Gardens). Gazette 1995, page 4324
	CT 43A/732	Lot 2 DP 74620	0.0405	Local Purpose Reserve (Public Gardens). Gazette 1995, page 4324
	Total		25.4429	

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Bolton Street Memorial Park

Map No.	Certificate of Title	Legal Description	Area (ha)	Status of Land
		Pt Cemetery Reserve, Town of Wellington	0.0303	Gazetted as private Burial Ground of the Right Honourable Richard John Seddon and his wife and descendents, Gazette 1923, page 2752
		Lot 2 DP 50793	1.3580	Historic Purposes Reserve, Gazette 1980, page 3765
		Pt Lot 1 "A", DP 8370, SO 327005	0.3104	Historic Purposes Reserve, Gazette 1989, page 3413
		Pt Lot "B" DP 8370, SO 32706	0.4815	Historic Purposes Reserve, Gazette 1989, page 6283
		Pt Sec 473, Town of Wellington, SO 10408 A 1203	0.0139	Historic Purposes Reserve, Gazette 1989, page 3413
		Sec 1, SO 36610	0.02062	Historic Purposes Reserve, Gazette 1991, page 3593
		Lot 2 DP 304234	0.0238	Local Purpose Reserve (Pubic garden)
		Lot 2 DP 69092	0.1554	Registered lease B.276860.1, registered on 12 February 1993, and recorded on CT 37 D/407
	Total Area		2.3939	

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Anderson Park

Map No.	Certificate of Title	Legal Description	Area (ha)	Status of Land
		Lot 1 DP 50793	2.8202	Recreation reserve, Gazette 1980, page 4060

Truby King Park

Map No.	Certificate of Title	Legal Description	Area (ha)	Status of Land
	WN47B/601	Pt Lot 2 DP 12692	0.6706	Historic Reserve
	WN31D/11	Lot 3 DP 12692	0.7348	Historic Reserve
	WN 15C/229	Lot 2 DP 43888	0.5188	Historic Reserve
	WN47B/601	LOT 1 DP 80801	0.0420	Historic Reserve
	Total Area		1.9662	

Otari Wilton's Bush

Map No.	Certificate of Title	Legal Description	Area (ha)	Status of Land/Date
1	CT WN255/167 17 October 1918	Otari 1-5, Pt Sbdn VI-VIII Kaiwharawhara District & Pt Sec 2 Kaiwharawhara District, also known as Sbdn 1-5 Lot IX Otari Native Reserve, Pt Lot VI, Pt Lot VII and Pt Lot VIII Otari Native Reserve and Pt Sec 2 Blk VI Port Nicholson Survey District	57.7689	Classified Scenic Reserve on 19/2/1998, transfer B651009.1
2	CT WN176/113	Lot 1 A/2512, also known as Pt Sec 1 Kaiwarra District, Block IV, Port	1.4113	Classified Scenic Reserve on 7/2/1983, transfer

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	22 May 1925	Nicholson Survey District		no. 539565.1
3	CT WN158/218 22 May 1925	Lot 3 DP 3647. All of land contained in WN248/171 (now cancelled). Now held in gazette notice 539565.1	0.1209	Classified scenic reserve on 7/2/83. Gazette notice 539565.1
4	CT WN158/218 22 May 1925	Pt Sec 1 Kaiwharawhara District. Used to be known as Lot 1 Plan A/2216 situated in Block VI, Port Nicholson Survey District	5.0796	Classified scenic reserve on 7/2/83. Gazette notice 539565.1
5	CT WND1/76 18 February 1970	Pt Sec 12 Kaiwharawhara District, situated in Block IV, Port Nicholson Survey District	0.0033	Classified scenic reserve on 7/2/83. Gazette notice 539565.1
6	CT WN5A/1080 4 September 1969	Lot 1 DP 27801 situated in Block VI, Port Nicholson Survey District	0.5413	Classified scenic reserve on 7/2/83. Gazette notice 539565.1
7	CT D1/75 18 February 1970	Lots 1 & 2 DP 25475 & Pt Sec 2 & Pt Sec 12 Kaiwharawhara District, situated in Block VI, Port Nicholson Survey District. SO plan 24211	0.5929	Classified scenic reserve on 7/2/83. Gazette notice 539565.1
8	CT 6D/1259 18 February 1970	Lot 2 DP 30270, situated in Block VI, Port Nicholson Survey District	0.9247	Classified scenic reserve on 7/2/83. Gazette notice 539565.1
9	CT 20D/1093 16 December 1980	Lot 54 DP 46309 situated in Block VI, Port Nicholson Survey District	6.55	Classified as scenic reserve on 19/2/98. Gazette notice B651009.1
10	CT 20D/1094 16 December 1980	Lot 1 DP 32083 situated in Block VI, Port Nicholson Survey District	1.8234	Classified scenic reserve on 7/2/83. Gazette notice 539565.1
11	CT WN44C/557 15 February 1995	Lot 3 DP 77941	0.1201	Classified as a scenic reserve when transferred to Council on 15/2/95.

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12	CT 227325 2005	Section I Survey Office Plan 318813	0.4977	Classified as scenic reserve when transferred to Council.
13	CT 108430 5 August 2003	Section 2 Survey Office Plan 316459	0.04649	Fee Simple
14	CT 64279 4 April 2003	Lot 2 Deposited Plan 316442	0.01557	Scenic Reserve
15	Izard Park areas Part CT 314/128	Parts Section 2, Kaiwharawhara District, Block IV, Port Nicholson Survey District	0.1545	
16	Izard Park areas Part CT 314/128	Parts Section 2, Kaiwharawhara District, Block IV, Port Nicholson Survey District	0.7233	
17	Izard Park areas Part CT 314/128	Parts Section 2, Kaiwharawhara District, Block IV, Port Nicholson Survey District	0.1472	
18	CT WN52A/734; WN33C/886; WN33C/807	Lot 5 DP 64470 & Lot 9 DP 84537; Lot 6 DP 64470; Lot 1 DP 59984	9.8743; 5.23; 7.42	
	Total Area		99.045	

Appendix 2: Historic outline of the four Botanic Gardens of Wellington

This Appendix contains historic outlines of the four Botanic Gardens of Wellington. They provide an overview about the origins and subsequent development of the four gardens.

- I. Traditional Māori History in Wellington
- II. Māori History of the Wellington Botanic Garden, Anderson Park and Bolton Street Memorial Park
- III. Wellington Botanic Garden
- IV. Bolton Street Memorial Park
- V. Otari-Wilton's Bush
- VI. Truby King Park

In terms of the Māori history, there is a distinct story for each botanic garden area but there is also a history common to all. That common history starts with the earliest settlement of Māori as they settled to build Pā and kainga and to garden large areas to support their settlements. The early 19th century saw significant changes in the Māori occupation of Wellington, followed by a relatively brief period of transition in land use and ownership, when Māori and pakeha both lived in the area. However, by the late 19th century, Māori had become less of a presence in Wellington as a result of disease and death but mostly as a result of their moving away to the Hutt and other places, including for some hapu migration back to Taranaki. It was not until the late 20th century that Māori started to once again become involved with the botanic garden areas, through formal relationships between the Wellington City Council and Port Nicholson Block Settlement Trust and Wellington Tenths Trust for Te Atiawa/Taranaki Whanui and Te Runanga o Ngāti Toa Rangatira through memoranda of understandings.

I. Traditional Māori history of Wellington

The history and traditions related to the places which now make up Wellington's botanic garden reserves, go back to the earliest arrival of Māori in Wellington. That time was arguably 850 AD but perhaps nearer 1200 AD. Ngāi Tara were probably the first to settle the area, constructing Pā and developing gardens and using the forests to gather food. Before Ngāi Tara were people who were more of the hunter-gatherer groups who moved around with the natural resources of the region known by some as the kahui tipua.

Before them was the time of the taniwha with the most famous being the two in the harbour of Ngāke and Whataitai. In their time the harbour was a lake blocked from the ocean and Ngāke drove to escape to the open ocean and crashed out to form the channel known as Te Au a Tane, the present channel into Wellington harbour.

Ngāi Tara built a series of Pā, the largest being the Akatarewa Pā, on the town belt around Wellington College and extending up to the ridgeline. The Basin Reserve was the *mahinga kai* called Hauwai, where the eels and other fish from the swamp streams were gathered. The earliest gardens made by Māori simply involved clearing of the forest and allowing the re-growth of ferns as happens after a fire in forest. The

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bracken ferns have edible roots which Māori called *aruhe*. The terracing of the hills allowed the growth of the tropical kumara or sweet potato. Later potatoes, melons and corn were planted in gardens where land was left to lay fallow. The garden areas of Taranaki whānui at Otari, Kumutoto and elsewhere were used in these ways often well after the Town of Wellington was surveyed in 1840. Much of the forests were maintained as the habitat for bird such as kaka, kereru and others which were hunted for food.

Not all the areas included in today's reserve lands were occupied by Māori with Pā and kainga, but the entire area would have been used for food gathering and bird-snaring. This is acknowledged in names such as Otari which can mean the 'place for snaring birds'.

Charles Heaphy speaking in 1879 to the Wellington Philosophical Society, recalled that when he had arrived forty years earlier, Tinakori Hill was 'densely timbered the rata being conspicuous'. Wellington Terrace was timbered with 'high manuka some 40ft high.'³³ Hinau also grew in the area and the berries were used in bread and rongoa/medicines as well as being used in ta moko/tattooing.

The agreement that transferred title from customary title to the creation of the Crown and New Zealand Company's title was based on three sets of documents:

- The 1839 agreement between the New Zealand Company and Māori, which was accompanied by surveys and allocation of sections in 1840 and 1842;
- The 1844 releases which appear to have amounted to an agreement from the Crown to exclude certain Māori lands (pā, cultivations, sacred places, and company reserves) from any grant to the New Zealand Company in exchange for monetary compensation of £1500 and in exchange for Māori agreeing to release their interests in all other company claimed land;
- The 1847 McCleverty arrangement which exchanged certain lands occupied by Māori pā and cultivations in 'exchange for other land'. This agreement led to the 1848 Port Nicholson Crown Grant.³⁴

II. Māori history of the Wellington Botanic Garden, Anderson Park and Bolton Street Memorial Park

From the Māori perspective, the area now comprising the Wellington Botanic Garden, Anderson Park and Bolton Street Memorial Park was, prior to the arrival of the New Zealand Company settlers in 1840, part of the estate of Kumutoto Pā, of which today's Botanic Garden occupies a great part. The Ngāti Te Whiti hapu of Te Atiawa used the area for gardens (*ngākinga*) and for food gathering, particularly for Kumutoto Pā.

³³ Heaphy, C. 1880 Notes on Port Nicholson and the Natives in 1839. Transactions and Proceedings of the New Zealand Institute XII.

³⁴ Quinn Steve, *Report on the McCleverty Arrangements and McCleverty Reserves*, November 1997, evidence document I8, Wai 145, Wellington Tenth's Claim.

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The area was closely connected to both Kumutoto and Pipitea Pā. Kumutoto Pā was located near the Terrace and along Kumutoto Stream, which flowed down Woodward Street having flowed from the Pukehinau Ridge. The Pukehinau Ridge (Hill of Hinau trees) runs to the West of Kelburn campus of Victoria University towards the Botanical Gardens. Pipitea Pā was located along what became Thorndon Quay and across Thorndon Flat, known by Māori as Haukawakawa. The Pipitea Stream runs through the Botanic Garden and thence through where Pipitea Pā (now Wellington Girls College) was located to discharge at Pipitea Point in the harbour, Te Whanganui a Tara.

The land that was set aside as cemetery in the 1840 plan of Wellington (now the Bolton Street Memorial Park) was probably already used by Māori from both Pā for burials and for the earlier traditional processes for dealing with the dead. The following story was constructed from historical records.

“We crossed the Waipiro and Tutaenui streams upstream of the beach and as we did so I thought to ask why we had not crossed to Kumutoto Pā at the top of Te Iwamata ngakinga and we were told that this area was wāhi tapu. Te Ropiha qualified this by saying that in this area there was an urupa that belonged to the people of Poneke(inner harbour). We pressed him to let us pass by. I’m glad that we did. We kept a respectful distance but were able to see several impressive burial platforms (Atamira). One of our party had gone ahead to tell Wi Tako Ngatata of our impending arrival and when we arrived at the Pā we went through the same welcome that we experienced at Pipitea early that same day. Ropiha stayed with us at Kumutoto and agreed to take us the next day across to Huriwhenua (Te Aro flats) to visit the Pā at Te Aro”³⁵.

The names of the streams mentioned, the Tutaenui Creek and the Waipiro Stream (evil smelling water), gives some indication of the purposes. The Tutaenui Stream is located in a gully within the park. ‘Atamira’, a platform or low stage, is a bier for the dead, with one end slightly elevated for the head. A dead chief was laid on the atamira, with his hair adorned with feathers, his body covered with the finest flax and feather cloaks, and his weapons arrayed about him.

The Pā, rapidly succumbed to the rapid growth of the Town of Wellington and gardens and food gathering areas disappeared despite arrangements for land in the Wellington Town Belt to remain as Māori reserves. Kumutoto Pā was the first to disappear due to pressure on land from the early settlers and the needs of the new society.

With the arrival of the settlers came the process of providing Crown grants for particular land parcels including the allocation of Māori reserves (1840), as well as the further process of the allocation of what became known as McCleverty reserves (1848).

³⁵ Gilmore, Neville *Cultural Report, Lambton Harbour*, 2004, Wellington Tenth Trust

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A cultivation area that now forms the bulk, but not all, of the Botanic Garden fronting Glenmore Street and Section 487, which ran down to the foreshore and is now bisected by Woodward Street, were allotted to the Kumutoto Pā people in substitution for the original Pā on The Terrace. The awards of Colonel McCleverty made in 1847 gave a parcel of land of some 52 acres (21.34ha). Kumutoto's McCleverty deed is recorded in the District Lands Register. In the deed, Kumutoto agreed to give up cultivations in Karori, Ohiro and upper 'Kaiwarrawarra'. In exchange they received two areas of land:

- The Town Belt area below the botanical gardens. This total area amounts to 52 acres 2 roods 37 perches (some 21.34 Ha);
- Wellington Town Acre 487, which included Kumutoto Pā.

Town Belt land was treated by the Crown as Crown land and its 'exchange' to Kumutoto was seen as an act of generosity on the Crown's behalf. The land was subsequently used as cultivation land – some 62 acres of Māori cultivations were already situated on this land prior to this, and these were guaranteed to Maori by Governor Fitzroy.³⁶

In October 1852, the entire Town Belt land awarded to Kumutoto was purchased by the Government:

We the undersigned having accepted the sum of 160 pounds sterling, the receipt whereof is hereby acknowledged in payment for the block of land containing fifty-two acres, three roods and thirty perches, the boundaries which are described in the within deed, reconvey the same to the Governor-in-Chief upon behalf of Her Majesty Queen Victoria and renounce all rights and title and interest in the same forever.

*Signed: Wiremu Tako for himself and for Tamati Paratene
Paora Hukiki for himself and Raniera*

Signed in my presence, having been previously translated this 11/10/52

H. T. Kemp Native Secretary

S. E. Grimestone, Chief Clerk Colonial Secretary's Office³⁷

While Māori sold this land on 11 October, on 27 October Governor Grey issued a Crown Grant to the Superintendent of the Wesleyan missions, Reverend James Watkin for the establishment of a school. Although no school was forthcoming, the Wesleyan Church became the beneficiary of the land initially and later much was to transfer to the Town of Wellington, including the area at the top of the Cable Car.

³⁶ H Hansen Turton, 'Wellington Tenth: Turton's *Epitome of Official Documents relative to Native Affairs and Land Purchases in the North Island of New Zealand*, p D12

³⁷ 2 Deed 157 and 1 Deed 306

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The Māori population at Kumutoto went from 30 in 1844 to just 14 by 1857. However, there remains a strong connection between Ngāti Te Whiti and the Botanic Garden.

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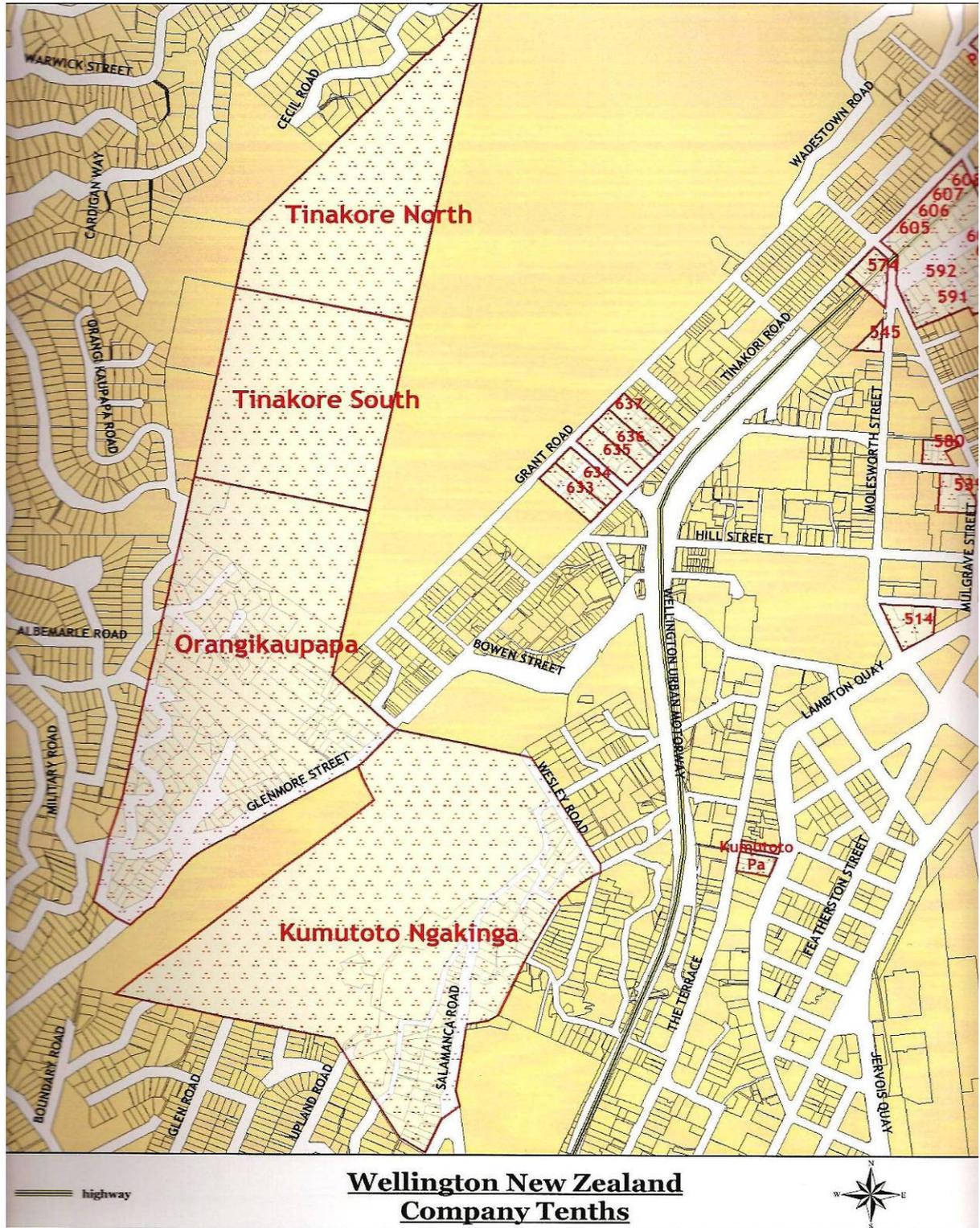


Figure 1: Botanic Garden Kumutoto Ngakinga. The lands to Kumutoto did not include all of what is now the Botanic Garden and Anderson Park. Note, in particular, the land bordering Glenmore Street where the original 13 acres of the Botanic Garden were put aside, which is outside of the Ngakinga area.

III. Wellington Botanic Garden

Introduction

Since the time of Māori settlement, the area now occupied by the Wellington Botanic Garden (the Garden) has been associated with gardens and food gathering (see the Māori history in Section II above.) The Garden is historically significant as one of New Zealand's earliest public gardens, established not only as a place for public enjoyment but also for scientific and acclimatisation purposes that were influential throughout colonial New Zealand. Inevitably, the Garden has matured and been adapted to changing requirements, yet, much of the original design as well as features from successive eras in its development are still evident today.

The adjacent Observatory Reserves, the grounds of which are managed as an extension of the Botanic Garden, are also rich in history relating to a range of astronomical, meteorological, seismological and geomagnetic science work that has been based there for more than 100 years.

The following historic outline is drawn from the previous 2002 management plan, and should be read in conjunction with the preceding Māori History in Section II.

The Victorian Era

The Wellington Botanic Garden was established on approximately 13 acres of land along Glenmore Street, first shown on the 1840 City Plan as Town Belt and then reserved for the purpose of a botanic garden in 1844. In 1869 the Wellington Botanic Garden Act handed control of the garden to the New Zealand Institute. The Garden was further extended to 68 acres with the addition of Wesleyan Reserve (former Town Belt) granted to the city under the City Reserves Act 1871.

From 1869 to 1891, a Board comprising the governors of the New Zealand Institute administered the Garden, which was then developed to meet three identifiable but overlapping needs, typical of British colonial botanic gardens:

- For Government - a trial ground for acclimatising and examining the economic potential of plants, particularly forestry species;
- For scientists - a garden for the study and collection of indigenous flora and the establishment of exotic plants;
- For the public - a place of recreation and enjoyment.

The Garden Reserve underwent intensive development. It was fenced and mapped (the first map being produced in 1875), paths were formed and named, and the site of the present-day Sound Shell lawn was levelled and laid out as a Teaching Garden that included parterre plantings established in 1880. Plants were labelled, areas of native forest were ringed with trees to provide shelter and extensive plantings were made on ridges, along the Main Drive and around what was then called the lily pond.

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During 1870s and 80s, the major source of revenue came from the central government for testing the economic potential of introduced plants. Conifer plantings from this era grew to be a dominant feature that thereafter provided the framework of vegetation and shelter for the horticultural collections and formal garden areas.

An Overseer's House was built in 1876, overlooking what was then Anderson Gully. It became the constable's house after the Botanic Garden constabulary was established in 1880. The house, which is now used as a custodian's house, was registered as a Category 2 Historic Place³⁸ in 2005.

When, in 1891, the Wellington Botanic Garden Vesting Act vested control in the City Council, and stipulated that the original 13 acre-area be maintained as a botanic garden in perpetuity, it was well formed. There were, nevertheless, three major issues facing the Council in its new management of the Garden: the spread of gorse; broken fences; and lack of funds from the depression of the 1880s.

Prosperity had returned by 1895, and with it demand grew for the Garden to be developed as a 'pleasure ground' rather than a 'scientific reserve'³⁹.

Edwardian – mid-twentieth Century era

Public use of the Garden increased as accessibility improved with the opening of the Kelburn Cable Car in 1902 and the introduction of tramways up Glenmore Street in 1904.

More amenities were developed in the Garden to support its growing popularity as a pleasure ground. The Tea Kiosk at the top of the Cable Car opened in 1904 on land leased to the Kelburn and Karori Tramway Company. In 1905, a children's playground was established in the vicinity of Anderson Park and women's toilets were provided. A rotunda was built near the Duck Pond in 1907 and men's toilets in 1915.

The huge task of filling and developing the Anderson Park Gully as a recreation ground began in 1906, in response to community pressure. The land had formerly been part of the Bolton Street Cemetery, and 55 graves had to be re-interred. The park was ready for use by 1910, though the scale of earthworks caused considerable visual and physical damage, with a large dark gully ending abruptly at a wall of fill. The gully was filled in when Anderson Park was extended between 1931 and 1934, using unemployment relief labour, and then used for sports fields until the Second World War, when it was used for an American Marine Camp.

The installation of the wrought iron 'Founder's Gate' and fence in 1925 (a project that had languished since 1905) emphasised Glenmore Street as the main entrance to the Garden. The entire frontage was then remodelled over several years as a result of widening Glenmore Street and Tinakori Road and finally completed in 1930.

³⁸ Under the New Zealand Historic Places Act 1993, New Zealand Historic Places Trust (NZHPT) Registration No, 1414

³⁹ Shepherd & Cook (1988), 232.

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The plant collections were also refurbished and further developed. In the first decade of the twentieth century, pines and many earlier tree plantings were removed from near the main gates through the Main Garden to the first ridge and the area was extensively replanted, including magnolias along the Bamboo Path. From 1910, the Teaching Garden was gradually replaced by a rose garden in the area now occupied by the Sound Shell lawn. A fernery was completed and opened to the public in 1911 and the alpine garden (opposite the then band rotunda) was extended in 1912. Other rockeries were developed later. More pines were removed from Druid's Hill during the 1910s and much new planting, particularly of flowering trees, started in 1918.

Meanwhile, new facilities were developed for staff. Stables and a mess room were built in 1914 and a potting shed and nursery soon after.

Work began in 1927 to form the Magpie and Glenmore Lawns, using unemployment relief labour, to level the ridge in the southwest section of the garden and fill an adjacent gully. The Mariri Road entrance and lawn were also formed.

The Main Garden



Photograph 1. The Main Garden, circa 1907. Photograph: Alexander Turnbull Library

The **Main Garden** is the most well-known part of the Wellington Botanic Garden. It corresponds with the original 13 acres set aside as a botanic garden in 1852. The formality of layout and its use as a promenade is typical of Victorian gardens worldwide.

This area still features plantings from all periods of the Garden's development, particularly relating to plant discoveries of the nineteenth century. Early framework plantings of macrocarpas, cedars and pines around the Duck Pond and conifers on the Glenmore Hills remain, for instance. These have been augmented by subsequent plantings such as pohutukawas, magnolias and phoenix palms. The clipped hollies,

of which only one remains, were also planted in the nineteenth century⁴⁰ but the woodland garden, rockeries, fuchsia border and camellia gardens in and around the area came later. The bog and wetland planting was introduced at the time of the Duck Pond redevelopment in the 1990s. The bedding displays are of relatively recent origin, reflecting world-wide horticultural fashions in public gardens.

The history of development is also evident in the range of architectural styles present. The entrance gates and wrought iron work along the Glenmore Street boundary, statuary, urns, gazebo and the Sound Shell all date from the early decades of the twentieth century. These, together with fences, seats, latticework and buildings such as the stables and potting shed were typical of the Edwardian garden style that was influenced by the Romantic and Arts and Crafts movements, which favoured rustic simplicity in design.

The Conifer Collection



Photograph 2. Wellington Botanic Garden, Kelburn, Wellington, circa 1900s – 1930s, with the tall conifer framework well developed beyond Hector's Teaching Garden (foreground). Photograph: Alexander Turnbull Library.

The tall conifers are some of the oldest trees in the Garden and the pines are some of the oldest in New Zealand. These were important experimental plantings at the outset of commercial forestry in New Zealand and contributed to plantings of conifers in the Wellington Town Belt, and throughout New Zealand in other botanic gardens, domains, schools, farm homesteads and cemeteries - including those in Bolton Street Memorial Park. The conifers have been a significant component of the tall tree framework in the Garden, providing the quick-growing shelter that was needed to establish other plantings. Consequently, the tall conifers are of scientific, genetic and historic value.

⁴⁰ Clipped holly hedge is shown in a photo circa 1880, Shepherd & Cook (1988), 165

The conifer collection also includes the very comprehensive dwarf conifer collection, established in the 1960's, and the James Hector pinetum on Magpie Hill. The pinetum, representing the different gymnosperm plant families, was started in 1992 as an educational arboretum to demonstrate the diversity of conifers. It was named after Sir James Hector, who guided the Garden's early development when he was Manager between 1868 and 1890. He was a prominent scientist who advocated the Garden's value not only as a place for public enjoyment but also as a scientific reserve for studying plants and as a place for trialling the economic potential of plants.

Menagerie

The Botanic Garden Act 1869 provided for the acclimatisation of introduced animals as well as plants. Consequently, the Wellington Acclimatisation Society established bird hatcheries in the Garden during the 1870s, which gradually developed into a small menagerie near the site of the present-day playground. Its management was problematic, however, so it was closed down and the animals transferred when the Newtown Park Zoo opened in 1906.

Post-WWII twentieth Century era

The opening of the 1.21-hectare Lady Norwood Rose Garden in 1953, on what was formerly the Anderson Park extension, was the first major post-war development in the Garden. Regarded today as one of New Zealand's finest rose gardens, it was named in honour of Lady Norwood who, with her husband Sir Charles Norwood, a former Mayor of Wellington, contributed greatly to the city's development. The traditional geometric pattern, with gravelled paths radiating out from the central pool and grassed pathways connecting the formal rose beds, was in a formal Italian style that emerged in the 1890s and became fashionable in the early decades of the twentieth century⁴¹. The central antique fountain, which dates from the 1870s⁴², was donated by the Norwood family in 1977.

The rose garden's partial enclosure with a semi-circular colonnade of brick columns and timber beams was completed when the Begonia House, bordering the western side, was finished in 1960. The building was later extended with the addition of the Tea House in 1981 and the Lily House in 1989. The post-war focus of development in the Anderson Park extension area also saw the establishment of the Peace Garden in 1960, where a waterfall was added some years later.

⁴¹ NZHPT Register No. 7573, Cultural Significance section

⁴² Ibid. Physical Significance section

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Photograph 3. *The Lady Norwood Rose Garden, flanked by the Tea, Begonia and Lily House complex (right) and the Peace Garden (at the base of the slope, centre). Image: Wellington City Council, early 2000s.*



Photograph 4. *Open-air performance at Wellington Botanic Gardens Sound Shell, featuring strings of lights and spectators, 1956. Photo: Alexander Turnbull Library.*

After the Wahine storm struck in 1968, destroying a large number of mature trees, a period of refurbishment ensued in which much old growth was felled. The Herb Garden was established during the 1970s, with the support of the former Wellington Herb Society, and further additions were completed in 1985.

In 1983 an Interpretative Centre was established in the Winding House that had previously housed the engine for the cable car. The centre, which contained botanical, horticultural and historical displays and information relating to the Botanic Garden, was closed in 1987.

It was replaced in 1991 by a new purpose-built Education and Environment Centre built above the Main Garden, now known as The Treehouse. As well providing a visitor information centre, education facility and staff offices, the Treehouse also became the headquarters for the New Zealand office of the World Wide Fund for Nature (WWF). This dual role, introduced complementary themes of natural heritage conservation and botanic / garden education, cemented by an agreement whereby a WWF education officer based at the Treehouse would work with Botanic Garden staff and provide education programmes geared to the school curriculum. WWF moved out of the Treehouse in 2010.

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Further significant redevelopment work continued, including the Cable Car lookout area and nearby establishment of a grass collection in 1995; the Duck Pond area in 1997, funded jointly by the Council, Charles Plimmer Bequest and Friends of the Wellington Botanic Garden; and the playground in 2001. The Sculpture Trail was also started in 1991, in collaboration between the Wellington Sculpture Trust and the Council that has seen six major works installed in the Garden to date.

Controversy erupted in 1991 when a peace garden link to the Bolton Street Memorial Park was proposed that would have reduced the size of the Anderson Park playing field. After public consultation in 1995, it was decided that a full size cricket/soccer field would remain. An improved pedestrian and visual link was instead developed alongside the roadway between Glenmore and Kinross Streets in 2005.

The Garden's growing popularity can be attributed to the increase in number and variety of public events and activities set up and promoted by the Council, such as the highly successful 'Summer City' festival at the Dell and Anderson Park that was established in 1979. Outdoor concerts had occurred at the garden ever since the Sound Shell was completed in the early 1950's, however, the range and spread of events throughout the year increased in recent decades, including: Tulip Sunday, run with the New Zealand Netherlands Society; the Spring Festival; the summer city programme of outdoor concerts; the summer light show, started in the late 1990s; children's entertainments such as the Teddy Bear's picnic; and practical gardening demonstrations such as the mid-winter rose pruning day. The development of the Northern Walkway (1985) and City-to-Sea Walkway (1992) through the Garden also encouraged its use for recreational walking.

The Garden also grew in popularity as a tourist destination, promoted by tourist operators and the Council. By 1995/1996 the proportion of visitors from outside the Wellington region had increased to nearly 47%.

In 1991, the Council celebrated the Centennial of its management of the Garden with a major public celebration in the form of a Floriade Festival.

Soon after, a significant change in that management came about with the decision, in 1994, to make the Garden a business unit within the Council's Parks Business Unit. This followed a gradual evolution in management style over the preceding 100 years. For most of that period, the Garden had been managed by individuals who had generally served in long-term appointments as Superintendent (Director / Curator) of the Botanic Garden and had been relatively autonomous. The 1980s saw a change to shorter-term curatorships and the formalisation of policy development in public management plans, as required by the Reserves Act 1977. The first management plan was produced 1981, followed by a further more comprehensive one in 1990, and a combined one for the Botanic Garden, Anderson Park and Bolton Street Memorial Park in 2002.

Widened participation in the Garden's management was another trend in the late twentieth century. The Friends of the Wellington Botanic Garden (now Gardens) was established in 1989 to assist with overall management and provide assistance with special projects. This group was instrumental in initiating the design competition for

the Duck Pond redevelopment in 1994, in setting up and running the still continuing guided tours of the Garden, and volunteering at the Treehouse information counter until the early 2000s.

External input to the Garden's management was formalised with the establishment of the Botanic Gardens of Wellington Advisory Board in 1997. Appointed to provide specialist advice, peer review and foster external relationships, the Board continued for over a decade before going into recess.

The rise of the environmental movement in the latter part of the 20th century also influenced the Garden's long-held role as a showcase of horticultural best practice. More environmentally friendly practices, such as mulching to reduce water use, were gradually introduced to set an example as well as saving costs. In the late 1990's an integrated pest and disease management programme commenced in the Garden to reduce pesticide use and use biological control where practical.

21st century

The Wellington Botanic Garden was registered as an Historic Area under the Historic Places Act 1993 in 2004⁴³ – recognised as being nationally and regionally significant for its historic, physical and cultural values.

As a result of a landscape development plan and a plant collections review completed in the early 2000s, a number of key projects were identified. Amongst these was the need to replant the tall tree framework, including the historic but ageing conifers. A Tree Plan was completed in 2011 to prioritise the replanting work. Another urgent project, the refurbishment and seismic upgrade of the Begonia House and café took place in 2012.

The Native Forest

The Garden's areas of indigenous vegetation are significant because they link back to the forest cover that preceded European settlement. Some specialist investigations indicate that the native forest areas in The Glen and in Stable Gully are the only examples of the type in the city and Wellington Ecological District.

That these remnants survived no doubt owes much to the influence of early scientists within the New Zealand Institute such as the Garden's first Director, Sir James Hector, who noted in 1867 that the forest on the Wesleyan reserve was in a "tolerable state of preservation"⁴⁴ and Dr Leonard Cockayne, who wrote of its importance in 1925. In parallel, the less scientific but highly influential Romanticism of the late nineteenth century would have led to the native forest being appreciated and preserved for its natural qualities and perceived wildness.

Some of the native forest areas were well documented in the nineteenth century. A species list for the forest areas prepared by Buchanan in 1875 reveals that podocarps and a large proportion of other native species existed at that time. Mature trees of hinau, kahikatea, miro, northern rata, maire, pukatea, rewarewa, rimu and

⁴³ NZHPT Registration No. 7573

⁴⁴ Quoted in Wellington City Council (2002) *Combined Management Plan...*, 84

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totara were present, together with epiphytes and three mistletoe species.⁴⁵ The podocarps completely disappeared by the early 1900s, probably due to their exposure to wind after removal of firewood and timber from the bush. However, apart from this lack, the bush areas of today strongly resemble past vegetation and the majority of the present native trees are descended from the original forest. Growing close to the city centre, these native forest areas are important scientifically and historically.

In 2007 Forsyth and Blaschke⁴⁶ undertook an ecological survey and made recommendations as to the future management and restoration of the forest areas with particular emphasis on the pre-European remnants. At that time, the larger areas of native bush in the Garden were generally healthy and self-sufficient but the smaller areas were in poor condition and adversely affected by pest plants and animals, erosion and modified site conditions. A pest control programme was initiated along with a bird monitoring programme as part of a city wide programme.



Photograph 5. Native forest remnant, Botanic Garden, Wellington, circa 1887. Photograph: Alexander Turnbull Library

⁴⁵ The full list is published as an appendix in Shepherd & Cook (1988).

⁴⁶ Forsyth & Blaschke (2009)

The Observatory and Carter Observatory Reserves

The Observatory Reserve and the Carter Observatory Reserve are generally perceived to be part of the Wellington Botanic Garden although they are legally separate. Both reserves were registered as the Dominion Observatory Historic Area in 1994⁴⁷.

In 1891 the Wellington Botanic Garden Vesting Act made provision for the Government to appropriate 6 acres as a site for an observatory, to replace the observatory that had been built in the Bolton Street Cemetery in 1869. A gun battery was first developed on the new site in 1896, in response to the 'Russian scare'. The Gardens battery, as it was known, was dismantled in 1904, although there are some remnants. The Hector Observatory (renamed the 'Dominion Observatory' in 1925) was constructed on the site in 1907. The Observatory Reserve was formally gazetted on 11th October 1962 and the Dominion Observatory was registered as a Category 1 Historic Place in 1986⁴⁸.

The Observatory Reserve also contains the Meteorological Service Building (built in 1968]. The adjacent wooden building was occupied by the Institute of Geological and Nuclear Sciences until the early 90's and then leased to Victoria University's 'Innovation Greenhouse'. The Crown-owned reserve is administered by the Department of Conservation.

The Carter Observatory opened on an adjacent site in 1941 and is a Category 2 Historic Place⁴⁹. It originated when C. R. Carter bequeathed £2,240 to the New Zealand Institute in 1896 for building an observatory. Ambiguities in his will and disagreement over who should receive the money delayed any action until 1938 when the Carter Observatory Act was passed, under which the Carter Observatory Board was established to run the new facility. Legal title for the nearby Thomas King Observatory (built in 1912) was later gifted to the Board by Science Wellington (previously the Wellington Branch of the Royal Society of New Zealand.) The Carter Observatory was the National Observatory from 1977⁵⁰ to 2006, when the Government decided the status was no longer appropriate and withdrew funding⁵¹. In 2010, legislation⁵² was passed to dissolve the Board and transfer ownership and management to the Council. The Observatory, which had already been developed as a visitor destination in the late 20th century with a planetarium, audio-visual displays and a shop, is now administered by Wellington Museums Trust.

The Council has maintained the grounds around the observatories as an adjunct to the Botanic Garden, including the development of the flax collection, Kowhai Walk and the Sundial of Human Involvement.

⁴⁷ NZHPT Register No. 7033

⁴⁸ NZHPT Register No. 4700

⁴⁹ NZHPT Register No. 3596

⁵⁰ <http://www.carterobservatory.org/about-us> (27 .02.2014)

⁵¹ Deed recording management arrangements in relation to the Carter Observatory (2008)

⁵² Carter Observatory Act Repeal Act 2010

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Photograph 6. *Dominion Observatory, Wellington Botanic Gardens, circa 1900s.*
Photograph: Alexander Turnbull Library

IV. *Bolton Street Memorial Park*

The Bolton Street Memorial Park is historically significant for a number of reasons. prior to 1840, the area was probably used by Māori for burials (see Section II) and after 1840, it was, together with Mount Street (Roman Catholic Cemetery), the first burial ground in the New Zealand Company colony of Wellington. It commemorates early pioneers such as Edward Gibbon Wakefield and John Plimmer, many colonial settlers and notable national leaders, such as Richard John Seddon, Harry Holland, Samuel Parnell and James Edward Fitzgerald. It is a good example of a typical 19th century cemetery⁵³ with its range of memorials, slabs, statuary and crosses in arrange of materials. The wooden memorials are particularly important and the number and variety of fences surrounding the graves comparatively rare within New Zealand.

The park's management as a botanic garden dates officially from 1991, although staff from the Wellington Botanic Garden have maintained it since 1976⁵⁴. Since then, the focus has been on maintaining plantings typical of the 19th century cemetery, including historic specimens dating back to the early days, managed to provide an appropriate setting for the heritage cemetery artefacts and including a notable heritage rose collection, developed from the 1970s, from the old roses already present.

The following historic outline is largely drawn from *Unquiet Earth* by M. H. Alington, which contains a complete and detailed history of the three cemeteries into which the Sydney Street and Bolton Street area were divided and of the early history of Anderson Park when it was part of the cemetery. It is a valuable reference for anyone interested in finding out more about the cemetery history.

The Cemetery Reserves, 1840 - 1978

The Colonial Years

When Captain William Mein Smith, Chief Surveyor of the New Zealand Company, arrived at Port Nicolson in January 1840, he carried detailed instructions for the laying out of the new town of Wellington. Amongst them was a request that he provide “ample reserves for all public purposes such as cemetery...botanical garden...” etc.⁵⁵

Approximately 7.3 ha between Bolton and Sydney Streets were duly set aside as a cemetery and were available for use when the town sections were given out in July 1840. This was to be the town's only burial ground apart from a small area to the south for Roman Catholic burials, (the Mount Street Cemetery). T

⁵³ Refer White, H. L. (1978). *Monuments and their Inscriptions*.

⁵⁴ Alington, M. (1978), 256.

⁵⁵ Secretary to Captain Mein Smith, 1 August 1839. National Archives, New Zealand Company Series 102/1.

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When Bishop Selwyn arrived in 1842, he wished to consecrate a portion of the cemetery for burials of members of the Church of England, in accordance with customary church practice. A locally appointed land board made him a grant that included a portion already in use for all burials, regardless of creed. The Bishop's request subsequently met with strong opposition from those whose deceased relatives lay in the ground to be consecrated, to which they themselves, when deceased, would not be admitted. After seven years of sometimes bitter controversy, agreement was reached, and the cemetery was divided into three.

In 1851 a title was issued for the Church of England portion in Bolton Street, together with some reserved land further to the west for expansion. The Jewish community received its title in 1852. The public portion, accessed from Sydney Street, was not given a title until 1860. Three separate boards of trustees administered the three cemetery areas until February 1st 1892, when the entire cemetery was closed to all burials except those of certain next of kin in family plots. Control passed to the Wellington City Council where it has remained ever since. (The map in shows the divisions within the cemeteries that were established for the different religious communities).



Photograph 7. View of graves in the Bolton Street Cemetery, circa 1890s, showing the characteristic fences around burial plots. Herbaceous plants are evident in the foreground grave and conifer plantings in the background. Photograph: Alexander Turnbull Library

Encroachments

Since 1859 boundary encroachments to the original 7.3 ha cemetery have reduced the area to 2.4 ha. In 1859, 4046 square metres on the south side of Bolton Street were given over to the Church of England for a parsonage. In 1868 an area of 303 square metres was made available for a time service observatory. This was dismantled in 1906 to make way for the Seddon Memorial, which was erected in

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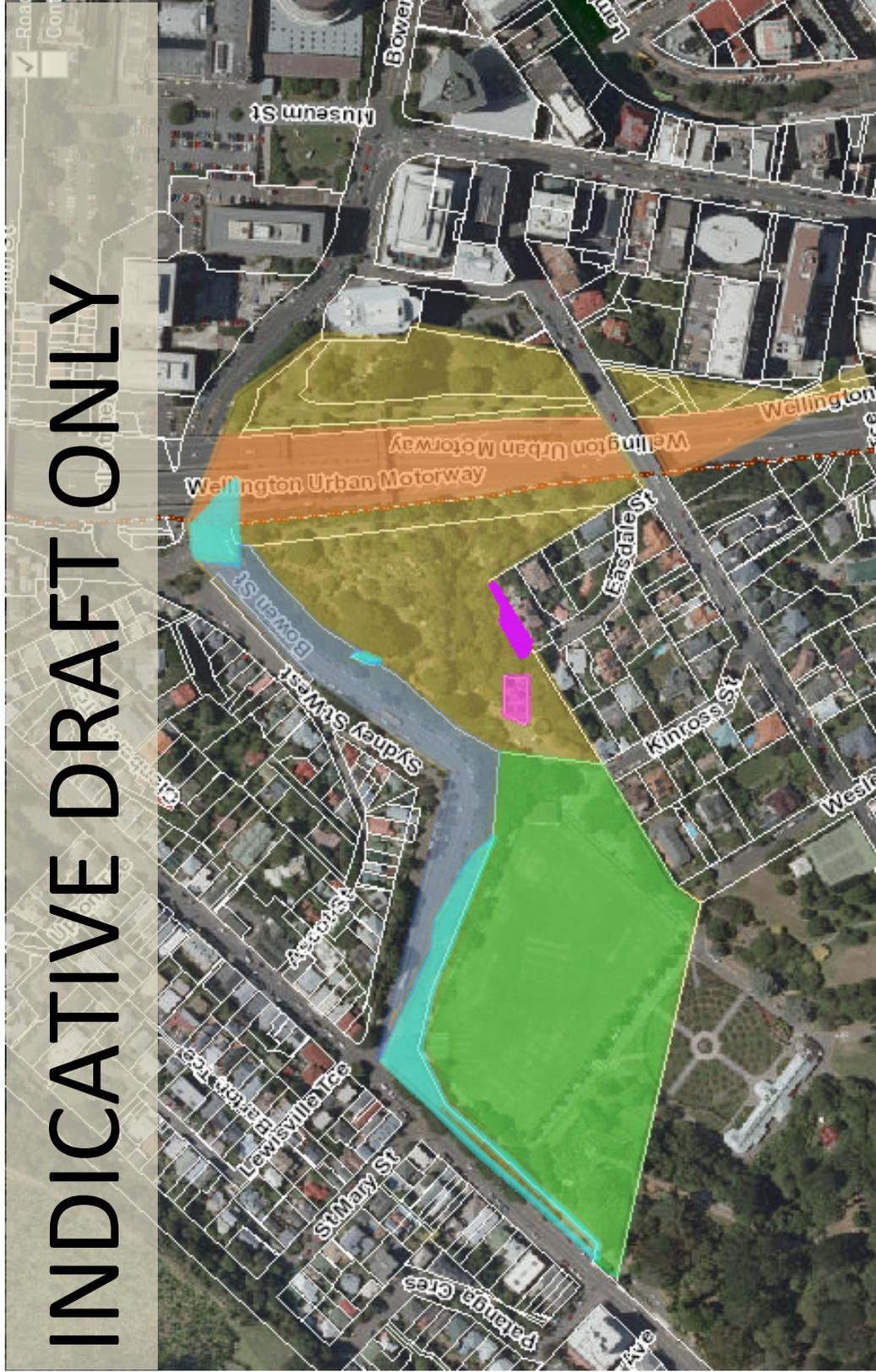
1909 and formally gazetted as the “Private burial ground of the Right Honourable Richard John Seddon and his wife and Descendants” in 1923.

In 1885 the formation of Glenbervie Road (now Upper Bowen Street) from the entrance to the public cemetery in Sydney Street through to Tinakori Road took land from all three cemetery areas. The Public Cemetery Reserve land to the west was closed in 1891 and the remains of 55 burials were reinterred in 1906 to enable the formation of a recreation ground for Thorndon on former cemetery land (now Anderson Park). The land for Anderson Park came from two blocks of cemetery, Public cemetery No 5 and Church of England cemetery No 3 (see). In 1928 a small area adjacent to the Sydney Street entrance, and larger strips near Tinakori Road, were taken for the Bowen Street extension. No graves were disturbed during any encroachments apart from that of Anderson Park. However, the 1928 encroachment led to subsequent slips affecting graves in 1945 and 1963-1957.



INDICATIVE DRAFT ONLY

Figure 2: Bolton Street Cemetery, circa 1852, showing the areas of grants for Public, Jewish and Church Of England Use



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Figure 3: Bolton Street Cemetery, encroachments, showing the areas taken for other purposes.

Effects of the Wellington Urban Motorway

In 1960 proposals were being formulated to extend the Wellington Urban Motorway through the Bolton Street Cemetery (as the three cemeteries were by then known). Considerable opposition was generated and in 1964 the Bolton Street Cemetery Preservation Society was formed with the objective of preventing the despoilation of the cemetery. Three authorities – the Wellington City Council, National Roads Board and Ministry of Works – were involved in the advancement of plans for the motorway but the City Council was responsible for the final decision to proceed through an Act of Parliament in 1967⁵⁶ that enabled the motorway's ten-year construction to begin the following year. The last burial before the three cemeteries were finally closed for further burials took place in 1967, although interment of ashes in family plots continued to be allowed.

When the motorway opened in 1978, the Bolton Street Cemetery had been severed, with the destruction of 1 ha of the historic site, which had necessitated the disinterment of approximately 3,700 burials. Most of these remains now lie in a large vault beneath the Early Settlers Memorial Lawn situated behind the Memorial Chapel on the east side of the motorway. The integrity and character of the Bolton Street Cemetery had been severely compromised. Fortunately, a belated decision to save and reinstate all the removed memorials slightly alleviated the extent of heritage lost, although most bases and fences were destroyed.

Restoration of the Sexton's Cottage and reinstatements of headstones removed from motorway land began in 1977. To ameliorate some of the motorway impacts, the National Roads Board agreed to provide a connecting link between the two portions of the bisected cemetery. This was to be a piazza or wide platform over the motorway but initial work was subsequently abandoned in favour of a small footbridge, which was in use, though not fully completed, when the motorway opened in May 1978⁵⁷.

⁵⁶ Finance (No 2) Act 1967, clause no. 6

⁵⁷ Alington, M. (1978), *Unquiet Earth*. 260



Photograph 8. Road works through the Bolton Street cemetery in preparation for the Wellington motorway, circa 1969. Shows earth moving vehicles working below a statue on the Flyger family grave. The city sexton, P J E Shotter, is nearest the statue. Photograph: Alexander Turnbull Library

Māori experience of the motorway disinterments

Bolton Street Memorial Park is a symbol of some sadness for Māori of Pipitea, Kumutoto and Te Aro. Ancestors particularly those who converted to Christianity were buried there and many were disinterred in the 1960s for the building of the Wellington Motorway. The graves in the way of the motorway were disinterred and the koiwi/bones were placed in a large common burial place in the Memorial Park.

Extract from *The Parihaka Album: Lest We Forget*, Chapter 9: Pioneers - Rachel Buchanan⁵⁸

The rain pelted down in thick icy drops. By the time we had rushed from the railway station to the little chapel on Bolton Street, we were soaked. My dad and I were going to meet Nick Perrin, a member of the Friends of Bolton Street Cemetery. Perrin had offered to give us a tour of the old graveyard. We were both hoping that Perrin might be able to give us some clues that would help us find the burial place of our tupuna, Te Aro Pā rangatira Hemi Parai, a man who died in 1877 and was buried, according to later newspaper reports, at "Waipiro".....

Despite the best intentions of the Friends group, Maori remain excluded from this memorial place. The Bolton Street Memorial Park memorial trail pamphlet lists 40 notable graves, including the Wallace one memorialising the dead children, but only one of them is obviously Maori. Site 34, in the northern section of the cemetery is the burial place for Rira Porutu, "a chief of Pipitea Pā who died in 1866. He was a signatory to the Treaty of Waitangi and uncle of the prophet Te Whiti".¹

⁵⁸ Buchanan, Rachel, *The Parihaka Album: Lest we forget*, Huia Publishers 2009

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When I looked through the Shotter photographs of graves that would be dug up for the motorway, I also found some other Maori names. Mohi Ngaponga, who Parai had followed south from Waikanae to Te Aro, had been buried in a plot the cemetery's Sydney Street section. Ropia Motorua and Miriam Teira were buried nearby. The Tonks family were in this part of the cemetery too.

A photograph of plot 96 lists it as the burial place of "Te Awhe Parai 1930". The spelling is so tantalisingly close that it seems possible this could have been the burial place of one of Parai's children, Te Awhi, a half-brother to Arapera and a Parihaka ploughman protestor. But I'm not sure. There is no Parai on the red marbled wall, 'In Memory of Those Disinterred' that lists the names of who could be identified. The closest name to the one referred to in the Shotter photographs "Te Awheoara".

The memorial wall says about 3700 people were eventually disinterred. My research in the council archives suggests that about a third of these people could not be identified. The diary kept by H Johnson, who headed the disinterment team, reveals a man determined to be level-headed and pragmatic about his horrible task. He notes that he is determined to treat all the remains with respect. After the first grave was disinterred on 15 November 1968, Johnson decided "it's just a job that has to be done so let's get on with it".

A few weeks later, Johnson noted that he and the sexton, Ted Shotter, were "feeling the long hours are very tiring".

On 28 April 1969, around plot number 1414, Johnson notes that six unknown Maori burials were found next to the five known graves. "During the opening of this UKN grave a very fine Greenstone mere was found and we are now classing this as a Maori grave and the boxes will be kept in the memorial grave but will be available if needed, hand over to Maori Affairs Dept, the mere will be placed in one of the boxes," he wrote.

On 1 May, Johnson's diary shows that 16 known graves were dug up and 17 unknown ones. These statistics are followed by the note: "During the opening of a large Unknown grave a Greenstone mere was found, have been in contact with Maori Affairs Department and they are interested and state that it should stay in the memorial grave and they do not want any publicity made about the mere. So we have it in there but not put directly away in case any of them would like to see it."

On 9 May he noted: "We are finding lots of UKN in this section of Bolton Street." On 19 May he said: "We are still working in an area near where the old Chapel was and we are locating a lot of UKN remains."

These few sentences are a memorial to the disruption of an urupa. It is difficult to know whether there was one mere – a short flat weapon of stone used to hand to hand fighting – found or two but what is clear is that Johnson was affected by the discovery and was aware that there might be people, Maori, who would like to see this taonga. It was sad to read that the department that was supposed to care for

“Maori Affairs” advised Johnson to re-bury this treasure, thus hiding, yet again, the evidence that Maori pioneers and leaders are buried in this historic site too.

Johnson’s diary is terse and brief. All feeling is edited from it. Complaints and comments are few. He notes the weather – often wet – and the condition of the ground and the remains. Boggy and messy are common phrases. Yet he chose to write two long paragraphs about the mere and his attempts to find someone to take care of it.

Memorial Park – Historic Purpose Reserve, 1978 - 2013

The Bolton Street Memorial Park is established

The Wellington City Council renamed the remaining cemetery land the ‘Bolton Street Memorial Park’ in 1978. Proposed amelioration of the motorway damage was not finalised for another two decades, however.

In 1965 the National Roads Board had agreed to give the City a 0.4 ha block of land bounded by Bowen, Mowbray and Bolton Streets to make up for the loss of approximately 1.5 ha of land taken for motorway purposes. The National Roads Board did not acquire the land and subsequently indicated that it could not afford to purchase it. After much debate the Board gave the Wellington City Council \$500,000 to assist with the purchase of the site in the late 1980s and provided an additional \$50,000 to upgrade the Mortuary Chapel (now Memorial Chapel).

A commercial development on the land was subsequently proposed. In 1987 a plan for a twelve-storey office building and a six-storey underground carpark with the Memorial Park on its roof was approved by the City Council, the Friends of Bolton Street Cemetery (now the Friends of Bolton Street Memorial Park⁵⁹) and the Historic Places Trust. The rooftop area was leased to the Council for a period of 999 years from 1989 with perpetual rights of renewal and a \$1 annual rent, if demanded, which is not subject to review. The project was completed in 1990 and the National Roads Board funding was used in the development of the Memorial Park and replication of the Mortuary Chapel (now Memorial Chapel, which was opened circa 1990).

A decision to delete an off-ramp resulted in transfer back to the cemetery of the unwanted land, where the graves had unfortunately already been removed. This land has been used for planting memorial trees to environmentalists.

The various parcels of land that now comprise the Bolton Street Memorial Park were progressively gazetted as Historic Purposes Reserve in 1980, 1989 and 1991 ().

Other developments and administration

In 1990, the first management plan was completed to guide the Memorial Park’s management and development. The following year, the Council decided to manage four of its public gardens collectively as ‘The Botanic Gardens of Wellington’,

⁵⁹ The Friends of Bolton Street Cemetery Inc, formed in 1977, changed its name to Friends of Bolton Street Memorial Park in 1996

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including the Bolton Street Memorial Park. In 2002, a combined management plan for the Botanic Garden, Anderson Park and Bolton Street Memorial Park was published.

In 1999, a list of burials in the cemetery and a list of those disinterred during the motorway construction was made available at the Memorial Chapel. Subsequently, the lists, which the Friends of Bolton Street Memorial Park originally compiled and continue to maintain, were digitised and made available for online viewing on Friends' website⁶⁰, established in 2011. Since their formation in 1977 (originally as the Friends of Bolton Street Memorial Park), the Friends have assisted with answering public enquiries about historic interments, conducted tours of the Memorial Park by arrangement and actively assisted with and advocated for the repair and maintenance of the memorials and other heritage artefacts.

Gravestones, monuments and paths were damaged by natural hazards such as slips, tree fall and root damage, earthquakes and runoff since the early days of the cemetery⁶¹. Vandalism and wilful damage to headstones, park furniture and plants was infrequent up to the late 1950s⁶² but has been a recurring problem in recent decades, instigating the Council to periodically hire security firms to patrol the area and encourage the occupants of the Sexton's Cottage to provide surveillance.

In 2001, the verified site, near the end of Kinross Street and the Seddon Memorial, of the 1906 re-interments that made way for the Anderson Park development were marked with a perimeter of bricks and a plaque erected.

In 2003, title was issued to the Council on a 200-square-metre area that was subdivided from the rear of a neighbouring residential property, No. 2 Easdale Street. The land, which was duly gazetted as Local Purpose Reserve and added to the Bolton Street Memorial Park, was gifted by Mrs Morva Williams. Mrs Williams, a keen gardener who had a long-standing association with the Easdale property, wanted to see the garden protected and had offered the land to the Council in 2001. Located alongside the Tucker Stafford Masonic memorial, physically connected to the Park and accessible from the Powles Path, the garden's was considered a worthwhile addition and Mrs Williams gift was accepted. The garden was officially opened to the public in 2005.

In 2006, guidelines⁶³ were produced on the maintenance and repairs of the graves and monuments, and in 2011, a Tree Plan for both the Wellington Botanic Garden and the Bolton Street Memorial Park was completed to prioritise replanting of the conifer collection / tall tree framework.

⁶⁰ <http://www.boltoncemetery.org.nz/>

⁶¹ Allington, M. (1978), 109

⁶² Allington, M (1978), 109.

⁶³ Aitken and Cochrane, Maintenance and Repair Guidelines for Graves and Memorials, Bolton Street Memorial Park, 2006.

Botanical and garden history

The vegetation of Bolton Street Memorial Park at the time of European settlement appears to have been tall manuka / kanuka shrubland which, from its height, would have been at least 90 years old. It was subsequently cleared and planted over.

Despite the efforts of the resident sextons in the 19th century, the cemetery area, with its ridges and gullies, fast-spreading scrub and noxious weeds (notably gorse), and exposure to wind, was not easy to maintain and there were complaints about neglect and poor appearance during this era. Nevertheless, there was much planting in the early years, much of it aimed at providing the shelter needed to grow the flowering garden plants that the settlers liked to plant on graves. In 1882, the Botanic Garden Trustees donated 200 plants, which included, as well conifers, native shrub species that Sexton David Robertson noted had been plentiful but were becoming 'extinct'. He hoped to preserve them by giving them a place in the cemetery⁶⁴. In any event, by the late 20th century, areas of secondary native bush were regenerating in the gullies.

By 1892, when the Council took over, trees were growing through thick scrub and wild pea and onion plant were widespread. After 1903 maintenance staff no longer lived on site. Caretakers were supplied on a day basis from the Karori Cemetery instead. The Council was legally responsible for the paths and general appearance of the cemetery but not the graves, which were the families' responsibility. During the 1930's the Beautifying Society and the Early Settlers' Association expressed concern at the general dilapidation and unkempt appearance. Volunteers worked for some weeks tending graves and planting.

By the early 1900s, trees had grown large enough to cause root damage to burial plots and shading of nearby properties. There were requests to remove trees in succeeding years, but the Council generally declined on the grounds of preserving the historic atmosphere. During the 20th century, the vegetation developed into a mix of mature trees (many dating back to the nineteenth century), ornamental planting and native regrowth. Many of the ornamental plantings in the main burial areas were garden plants that were first introduced in colonial times. A good many of these self-seeded and naturalised in the cemetery.

When botanists surveyed the trees and shrubs in the area in 1965, prior to the motorway construction, they noted that many trees were overcrowded and had been poorly maintained. Trees noted as being of at least 50 years old at that time included *macrocarpa* and *Pinus radiata* as well as two oaks. In 1968, Ray Mole, the Curator of the Council's Parks Department, compiled a detailed plant survey, recording 180 different exotic and native trees, shrubs, climbing and herbaceous plants, including yew and holly specimens that were typical of cemetery plantings. Plantings along the motorway edges in the 1970s, included species such as acacia and protea, that the 2002 management plan noted as being 'out of character'.

⁶⁴ Alington, M. (1978), 247.

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The cemetery came under the care of staff from the neighbouring Botanic Garden in November 1976. An aftermath of the motorway construction was renewed interest in preserving and restoring the Memorial Park's heritage assets, bringing to the fore the issue of managing the vegetation to maintain its 'old world' character while avoiding damage to graves, monuments and other built features such as old pathways. The historical value of many of the trees and the need to replace them suitably as they aged was also recognised.

The heritage rose collection

Interestingly, Mole's list⁶⁵ did not include roses, although he did note the presence of 'rose seedlings' and Margaret Alington noted that "several old and desirable rose varieties were found in 1968"⁶⁶. Rodney Read, in investigating the history of heritage roses in the Memorial Park, was unable to find any formal record of roses growing there from 1840 to 1980, although he listed a number of varieties that people remembered there and concluded that roses had been planted on family graves by visitors, without record⁶⁷. Botanic garden staff member, Peter Tijssen, recalls seeing roses inside and outside grave enclosures in the mid-1960s and recalls that staff took cuttings in 1968 (when the motorway work began) which were propagated and planted back into the cemetery some years later⁶⁸.

Since 1982, all roses planted in the Memorial Park have been recorded and given an accession number and label. Read noted that there were 201 heritage roses in the Memorial Park.

Visitor trends

Over its history, the reasons for visiting the cemetery area have gradually changed. Originally, family members tending and acknowledging family gravesites would have been the primary reason for visits but, as so often happens with cemeteries, family visits declined as connections became less immediate, and gradually, the area's use became more associated with its value as a public open space. A visitor survey in 1997, for instance, showed that 29% of visitors came to the Bolton Street Memorial Park for relaxation and exercise and 50% passed through primarily using it as a through route to other destinations. At that time most visitors (64%) lived or worked locally.

Interestingly, although no recent statistics are available, the Friends of Bolton Street Memorial Park report that noticeably more New Zealanders and foreign visitors are now exploring the park both in person and online, due to the growth in popularity of genealogical research.

⁶⁵ As reproduced in Alington (1978)

⁶⁶ Alington, M. (1978) 47.

⁶⁷ Read, Rodney (undated). History of heritage roses in the Bolton Street Memorial Park.

⁶⁸ Personal comment, Peter Tijssen, email, 3 March 2014.

Heritage buildings

Three buildings have been associated with the Bolton Street Memorial Park: two former sexton's cottages and the former chapel.

The two sexton's cottages were built in 1857, one for the sexton of the cemetery's public section and one for the sexton of the Church of England section. The Public Sexton's cottage, which backed onto the north-eastern boundary of the Jewish section of the cemetery, was demolished in 1908⁶⁹. The Church's cottage still stands in Bolton Street within the Memorial Park and was restored in 1978. It was used as accommodation for botanic garden staff until recent years, when it has been used for short term 'artists in residence' accommodation. Believed to be the oldest house extant in Wellington city, it is registered as an Historic Place Category 1 with the New Zealand Historic Places Trust⁷⁰ and is listed as a heritage item under the District Plan. A Conservation Plan was completed in 2000⁷¹.



Photograph 9. The former Sexton's Cottage, Bolton Street, dates back to 1857.
Photograph: Courtesy Friends of Bolton Street Memorial Park,]

⁶⁹ Its original location is identified as a brick outline on Robertson Way, the main walkway through the Cemetery.

⁷⁰ Registered in 2012 (Sexton's Cottage (Former), Registration No. 1427, after an earlier registration was found to be deficient.

⁷¹ Bowman, I. (2000). *The Sexton's Cottage, Wellington: Conservation Plan*.

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The chapel was built in December 1866. A new church on Mulgrave Street (now known as Old St Paul's) had replaced the earlier St Paul's on the Government Reserve, necessitating a chapel for funeral services in the church cemetery. The chapel was a simple building, based on a design by Frederick Thatcher, and some of the timber from the dismantled first St Paul's was used in its construction. In the early years of this century, its use began to decrease and by 1922 it was so derelict that a decision was made to demolish it. The Early Settlers and Historical Association worked for six years to save the chapel and in 1928 achieved its goal. Subsequent repainting and repairs kept it standing until it was dismantled for the motorway in 1969. Unfortunately, the original could not be reassembled due to general deterioration and, instead, a replica was built on the roof plaza, adjacent to the cottage, on the same axis as the original chapel. Now known as the Memorial Chapel, it contains memorial and interpretative material.



Photograph 10. *The St Paul's Chapel, in the Bolton Street Cemetery, circa 1920s-1940s, of which the present-day Memorial Chapel is a replica. Evident in the plantings are a conifer and tree fern (foreground) and low clipped shrubs around graves (middle). Photograph: Alexander Turnbull Library.*

V. *Otari-Wilton's Bush*

Introduction

The story of Otari-Wilton's Bush is one of leadership in the wider story of studying and conserving New Zealand's ecology and flora. Even in the nineteenth century, before it became a reserve, Wellington's colonial citizens were starting to appreciate the scenic quality of the fast-disappearing native forest; others in the science community were seeking to better understand it. These dual motivations of scenery preservation and science have underpinned the survival of Otari's forest, its formal protection and its continued management.

This section is an abridged version of the detailed history contained in Appendix 2 of the previous 2007 management plan, with some additional information on the Māori history and recent events.

Māori History of Otari-Wilton's Bush Reserve

Otari – Wilton's Bush played an important part in the history of Taranaki Whānui in Wellington. In the early 19th century, Ngāti Tama, Ngāti Mutunga and Te Atiawa from Taranaki settled the area largely left vacant by the previous tangata whenua groups such as Ngati Ira. Ngati Tama and Ngāti Mutunga moved first to the Ohariu District along the west coast. In time they moved inland ending at where they established a Pā at Kaiwharawhara. Otari was occupied in the 1820s. It was also on the trail from Kaiwharawhara and Makara, with people moving regularly between the harbour and the coast. Gardens were made and birds were snared.

Under the Native Reserves established by the McCleverty awards of 1847/48, the Otari Native Reserve, amounting to some 500 acres, was awarded to Māori from Kaiwharawhara, Pipitea and Ohariu Pā (see).

The upper section of 244 acres, known as the Kaiwharawhara Block was awarded to Ngati Tama. The land was leased and then most sold to Mr Kilmister in 1877. Charles Heaphy purchased 50 acres, which was improved by Kilmister by mistake, including building a house. Some 4.24 hectares of the Block still remains in Māori ownership⁷². The south-eastern 167 acres of the Native Reserve, awarded to Ohariu Pā (Ngati Tama), was sold in 1856 and then purchased by the Witton family in 1876. Parts of it that were later acquired by the Council are now part of Otari-Wilton's Bush.

The land awarded to Pipitea Pā was on the southwestern corner of the block and consisted of 134 acres. Of this some 80 acres was cultivated by the Pipitea natives. In 1875 Commissioner Heaphy let all 134 acres to a Mr Samuel Woodward. The land was partitioned into 5 strips of roughly 30 acres each. Subdivision 1 was sold to Henry Pitt. In 1906, the other four subdivisions were taken by proclamation⁷³ and made a scenic reserve. This land is a substantial part of today's Otari-Wilton's Bush.

⁷² Described as Otari A No 5.

⁷³ under the Public Works Act 1905

Occupation of the Otari area by Te Atiawa/Taranaki whanui continued well past the arrival of the New Zealand Company and its sale of land blocks in the area. European settlers recorded gardens on the north-facing slopes in the vicinity of Otari in the 1840s. A local farmer, Albert Kilmister, described, "A Māori and his wife [who caught kaka in a clearing across the stream] living in a whare near Wilton's Bush" in the 1850s.⁷⁴

A Forest Remnant Survives

Otari-Wilton's Bush would not exist today were it not for the survival of a significant area of native forest in the early days of Wellington's settlement, when most of the Wellington Peninsula was being cleared of forest and developed in farmland. How this came about traces back to the land allocations and ownership in the early nineteenth century of the area currently occupied by Otari-Wilton's Bush.

On the true right of Kaiwharawhara Stream, what was known as 'country acre' sections were balloted under New Zealand Company's private colonisation scheme to Samuel Maxton and Charles Beard Izard (see .)

Samuel Maxton formally took up his 108 country acres (43.7 ha) in 1859 and then sold his land to Job Wilton in 1860. The Wiltons (who also leased Izard's adjoining country acres) cleared and farmed most of the block, which stretched almost to the top of Tinakori Hill, but fenced off an area of 17 acres (7 hectares) of forest near their homestead. Job Wilton was happy for picnickers to enjoy the stream, the views and bush walks and, with easy road access from 1877, the area became a popular leisure-time destination for town folk. One member of the family was always at home during weekends and the bush was patrolled to make sure any picnic fires had been extinguished. The entire area in forest on both sides of the Kaiwharawhara Stream, became known as "Wilton's Bush".

On the true left of the stream, areas of the 500 acres (202 ha), known as the Otari Native Reserve, awarded to Māori in 1847 were leased out, cultivated, cleared and sold but a substantial part of the block awarded to Pipitea Pā remained largely forested (see preceding Māori History section also).

Records about the area's vegetation before and during this early phase of European settlement are sketchy but botanical studies suggest the forest on the north-western flanks of the Te Wharangi Ridge was young when European settlers arrived. At that time Māori clearings were recorded on the true right of the Kaiwharawhara Stream and a track led up a spur on the true left. As soon as European settlement began, podocarps were felled for milling. Broad-scale land clearance for pasture followed. Even Job Wilton's 'protected' patch of forest probably lost some totara for house timber. Several fires raged out of control across the area in 1851 and survey maps show that by 1877 the ridge-top land above Wilton-Otari Bush was being grazed and both flanks of what is now Chartwell were also clear of bush.

⁷⁴ Albert Kilmister, *Kilmister Reminiscences* 1932, Alexander Turnbull Library

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The Pipitea Native Reserve land, which later became Otari Scenic Reserve, was still in heavy bush in 1879, although fires had apparently come down spurs from the ridge-top above. It is not known what timber may have been removed from the block although Cockayne later noted an overall depletion of nikau in gullies. Local Māori did take forest timber to sell as firewood to settlers and nikau was particularly popular in this respect. Even as late as the 1940s, after Otari was made a reserve, hinau was being felled there for use as boundary fence posts.

Bird life greatly diminished with the loss of mature forest in the catchment and with intense hunting of kaka, kereru (New Zealand pigeon), tui and weka last century. Huia were present in the nineteenth century. Brockie made diary entries of kereru sightings in the 1940s which suggests numbers were very low then.

A Reserve is Created

By the turn of the century the almost total demise of natural vegetation around Wellington city was concerning many residents. When it was realised in 1902 that the

‘Pipitea Natives’ of Otari Native Reserve were keen to sell their block, a delegation of prominent citizens asked the Minister of Lands to take steps to preserve the forest. The Minister responded favourably and also gained assurance from Job Wilton that Wilton’s own forest would be protected as well.

In 1906, after several years of negotiations, during which the Government and the Council approved expenditure of 500 pounds each, the 135.75-acre (55 ha) area was acquired by the Crown and gazetted as a Scenic Reserve under the Scenery Preservation Act 1903. Compensation was paid to the relevant hapu by the Native Land Court. In 1907, an additional 7.5 acres (3 ha) was purchased from the Wittons and added to the reserve.

After the Wilton family subdivided their farm in 1906, the 17 acre (6.8 ha) forested part of the property was purchased by lawyer Martin Chapman, son of Henry Chapman (Wellington’s first judge). Chapman excavated a house site but never built, although his gardener, ‘Old Mac’, (James MacDonald) lived in a small whare on the property. Chapman was happy to let visitors use the tracks he made and share the pleasures of the forest and exotic flowering shrubs he planted. The property became known locally as "Chapman's Gardens".

In 1915 the Department of Lands and Survey appointed a Board to manage Otari Scenic Reserve. The seven member Board was chaired by the Commissioner of Crown Lands for the Wellington District and included Martin Chapman, the Council’s Reserves Committee Chairman and botanist Dr Leonard Cockayne.

Lack of funds for the Board led to the reserve being vested in the Wellington City Council in January 1918 (see). The reservation for scenic purposes was cancelled and, instead, the land became a reserve⁷⁵ held "in Trust for Recreation purposes and for the preservation of Native Flora".

⁷⁵ Under s62 of the Reserves and Land Disposal and Public Bodies Empowering Act 1917

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During the early 1920s the reserve's popularity grew, and the Council responded with improved road and track access, car parking, bridging of the stream and relinquishment of grazing leases within the reserve boundaries. There were even suggestions of a band rotunda.

When Martin Chapman died in 1924, his main beneficiary and brother, Sir Frederick Chapman, asked for his brother's 6.8 hectares of land and the small cottage on it to be offered to the Council as an addition to the reserve. The Council duly purchased 'Chapman's Gardens' in 1925. The acquisition assured the permanent protection of the last sizeable remnant of podocarp northern rata forest on the Wellington Peninsula.

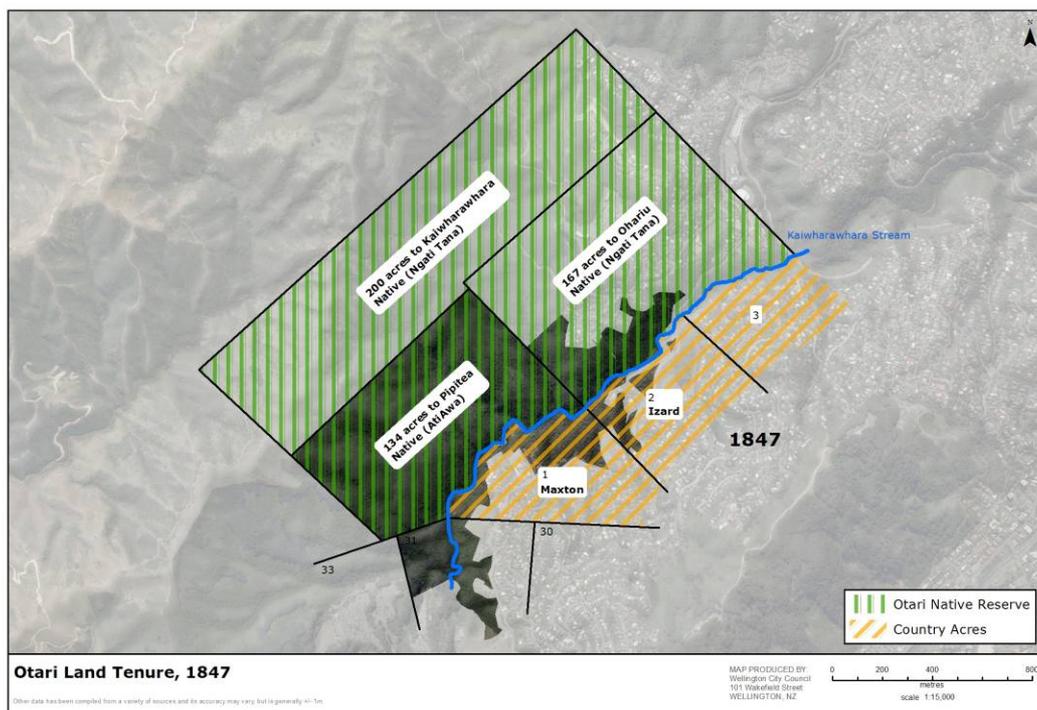


Figure 4: Otari Land Tenure, 1847. The Otari Native Reserve occupied land on the true left of the Kaiwharawhara Stream and 'country acres' originally balloted to Maxton and Izard occupied the true right.

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Photograph 11. *Dray Road to Wilton's Homestead 1896. The Dray Road (left) is still used for vehicle access and parts of the Circular Walk. The gate was a few metres away from the current footbridge near what is now called the Solander Picnic Area. Many of the trees on the right-hand skyline can still be recognised. The fence to the right was to contain Witton's stock but was not the boundary to his property. His forested land beyond the fence was incorporated into Otari Scenic Reserve in 1907. Photograph: Alexander Turnbull Library.*

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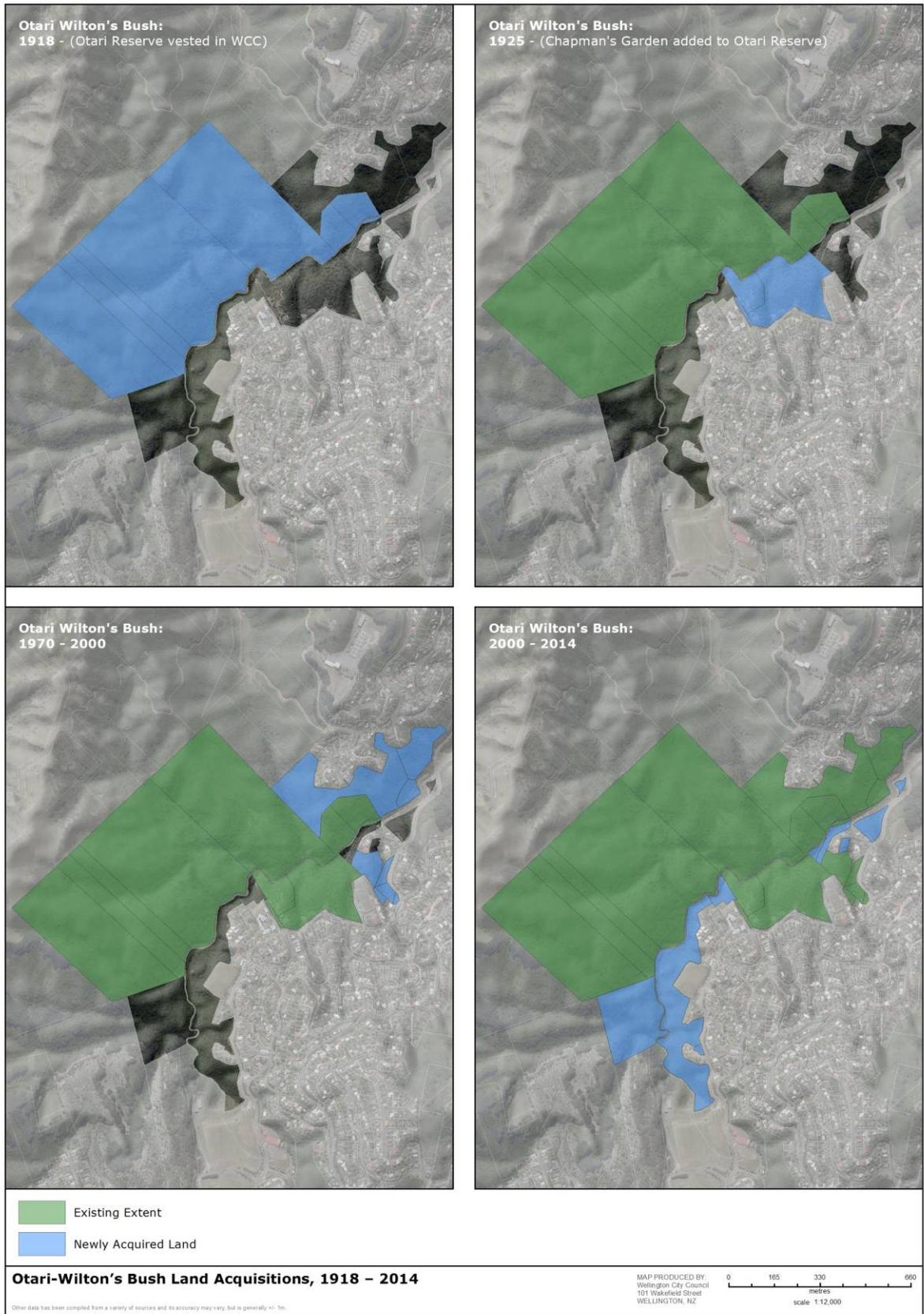


Figure 5. Otari-Wilton's Bush Land Acquisitions, 1918 – 2014.

An Open-Air Plant Museum is Created

During the 1920s the idea of creating a collection of indigenous plants within easy reach of the city that could be enjoyed by the public and provide material for study began to gather support. The City's Director of Parks and Reserves, J.G. MacKenzie, promoted the Otari Reserve as a logical site and, in 1926, the Institute of Horticulture's Honorary Botanist, Dr Leonard Cockayne, presented a formal proposal to the Council's Reserves Committee, which was accepted in its entirety and published in all the Wellington daily papers.

Otari Open-Air Native Plant Museum was officially opened by the Mayor, Charles Norwood, on the 12th of October 1926. By this time, the reserve comprised 143 acres (approximately 58 ha), of which about half was forested, with the rest in pasture or reverting to native vegetation. Dr Cockayne was appointed Honorary Botanist to the Wellington City Council and effectively became the Director of the Plant Museum.

A caretaker's residence was erected in 1926 and work began in earnest. By 1931, the Alpine Garden already featured 300 species, several other specialist beds were being developed and planting of forest species was well underway. The rockery around the caretaker's residence had been established and a nursery area provided. Dr Cockayne also recognised the threat posed to forest health by possums and instigated possum control in 1928.

In 1932, Cockayne published *A Scheme for the Development and Arrangement of the Otari Open-Air Plant Museum*, which guided work at Otari long after his death in 1934. Throughout the 1930s and 1940s the cultivated area continued to expand and public facilities such as seats were also progressively improved.

Andrew McKay, Officer-in-Charge, who lived on-site from 1926 to 1946, was responsible for much of the implementation in the museum's early years. He planted the hebe collection and, later, the Lukin Alpine Garden. He would, no doubt, have worked with the Native Plant Preservation Society's Advisory Committee, which was set up in 1937, when the Society gained approval for Otari to become its headquarters for propagation and planting work.

Hares were becoming a problem in Otari in the late 1930s. New plantings were suffering and collections had to be protected with wire netting.

The first botanical survey of Otari was undertaken by Stan Reid for a thesis produced in 1934. He recognised four broad vegetation zones, being: a coastal forest association predominantly of kohekohe; a podocarp/northern rata/tawa rainforest association; a semi-coastal association; and an intermediate association between rainforest and the semi-coastal forest.

Reid tried to determine the reasons for these types, taking into particular account the effects of site disturbance, frost, wind exposure and coastal influence. His study concentrated on the successional phases following land clearance and it was then, in the thirties, that he noted the presence of Darwin's barberry and warned of its aggressive threat to revegetation. He noted that kohekohe was increasing and

displacing tawa-dominated canopies and that rimu was not regenerating in the reserve – trends also observed in studies fifty and sixty years later⁷⁶.

Towards a Botanic Garden

Council recognised the special place of Otari-Wilton Bush with the appointment, in 1947, of a curator: –Walter Brockie, who remained in the role for the following fifteen years to his retirement in 1962. The rock garden and the impressive number of alpine plants in the collection were probably his most significant contributions. Willow, plane, cherry, sycamore, gum and walnut trees – vestiges of Chapman’s gardens – were also removed from the reserve. During the 1950s, accidental fires were a constant threat, probably due to neighbouring owners trying to control the gorse that was reverting on their properties with burn-offs.

In his 1947 report, Walter Brockie noted the absence of juvenile podocarps, even within mature forest areas, a trend he noted as ‘inexplicable’, although he wondered whether low bird numbers and low seed viability (due to changed site conditions) might be contributing. He proposed replenishing the forest with juvenile podocarps at a rate of 200 rimu and 100 each of miro, matai, kahikatea and totara annually for the following five years. His actual recorded plantings were much less than this, however.

In 1949, the reserve was renamed ‘Otari Gardens’ by Council resolution. Cockayne’s guiding principles remained valid, however, and the plant collections at Otari Gardens were steadily developed and expanded in succeeding decades.

Brockie’s successor, Raymond Mole, managed Otari from 1962 to 1991, receiving the Loder Cup in 1981 for his substantial contribution to the preservation of native plants. Although his role was expanded to include other Wellington reserves, he concentrated his efforts at Otari Gardens, developing specialist beds including flax and hebe cultivars. He developed the Wild Garden, following the Wahine Storm, and promoted the educational potential of Otari generally.

The condition of the forest vegetation improved noticeably after the top boundary from Johnston’s Hill was fenced in 1967 to prevent stock invading from adjacent rural properties. Otari’s forest could not be so easily protected from the ‘Wahine Storm’, which hit Wellington in April 1968. The forest was badly damaged, with immediate losses of hinau, rimu and rata, especially in the mature forest beside Wilton Road, and ongoing losses from canopy weakening and crown damage. An overall decline of species followed and a change in forest structure, which saw the spread of kohekohe and karaka.

In 1952, two memorials related to Otari’s origins were put in place. The Wilton Memorial Gate, funded by the Wilton family, was built where an access road had formerly led to the Wilton homestead. The Cockayne Memorial was placed over the graves of Dr Cockayne and his wife Maud, comprising a large rock inscribed with

⁷⁶ Reid (1982) and Marjot (1992), cited in Wellington City Council, *Otari Native Botanic Garden and Wilton’s Bush Reserve* (2007), 81.

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Cockayne's own words, "Will our descendents prize this unique heritage from the dim past and preserve these sanctuaries intact?".

That the Gardens' heritage was prized was demonstrated by events in the 1970s. When a North West Connector road was proposed that would cut across part of Otari, vigorous opposition from scientists and local residents ensued. The roading scheme was never developed. Instead, the concept of linking clusters of reserves into an 'Outer Town Belt' (later, 'Outer Green Belt') around the western edge of Wellington's urban area was adopted, and the Otari Gardens were included within this.

The 1980s dawned with the publication of the Council's second Otari management plan, which reaffirmed Cockayne's original objectives whilst also recognising changing recreation and educational trends. Later in the same year, the building now known as the Information Centre - Te Marae o Tane was built, providing a small lecture room, library, toilets, storage, workshop and offices.

In 1980 the Council also resolved to bring all the land it had acquired at Otari since 1918 and not formally gazetted as reserve under the Reserves Act 1977. This was implemented in 1982.

In 1991, the reserve was renamed 'Otari Native Botanic Garden' (formally gazetted as such in 1993), to more clearly define its purpose, especially for visitors to the city. At the same time, Council appointed the first Curator of The Botanic Gardens of Wellington to rationalise the overall management of its four botanic gardens. Under this regime, the day-to-day operations at Otari were managed by a supervisor.

By the 1990s, the possum population had built up to an estimated twelve possums per hectare. A major possum poisoning programme was undertaken in 1993 by the Regional Council and, by 1995, significant recovery of the vegetation was evident.

Otari Native Botanic Garden and Wilton's Bush Reserve

In 1999, the reserve's name was changed to Otari Native Botanic Garden and Wilton's Bush Reserve in consultation with interest groups and iwi, to better identify its purpose and recognise Job Wilton's legacy.

As Cockayne would have wanted, science has remained an important thread at Otari-Wilton's Bush. Strong teaching and research relationships have developed with Victoria University of Wellington and the Museum of New Zealand Te Papa Tongarewa during the last decade, with the botanical collections and native forest being used for research projects, undergraduate teaching programmes and the provision of plant material for student use.

The establishment of the Otari-Wilton's Bush Trust in 2000 also saw the continuation of community appreciation and involvement that Job Wilton first enabled at 'Wilton's Bush' in the nineteenth century. The Trust, is a voluntary organisation that raises funds, co-ordinates tour guides, hosts visitors and assists with other programmes.

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A major redevelopment of the collection and visitor facilities took place in 1999 with substantial funding from the Charles Plimmer bequest. The entrance and car parking on Wilton Road were upgraded, the alpine garden developed and the deck and canopy walkway adjacent to the Visitor Centre Te Marae o Tane installed. The waharoa were also placed at entranceways.

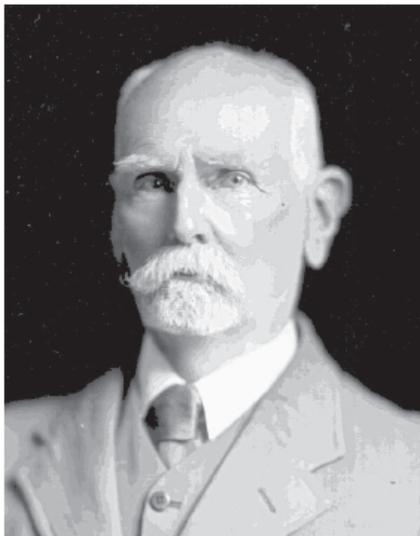
In 2002, Project Kaiwharawhara was initiated to manage and enhance the health of the Kaiwharawhara catchment. Major riparian planting project took place in Otari Wilton's Bush between the Troup Picnic Area and Ian Galloway Park.

In 2004, Otari-Wilton's Bush was recognised as a Garden of National Significance by the New Zealand Gardens Trust.

A 'Bioblitz' in 2007 was organised by the Otari-Wilton's Bush Trust and the Council, in collaboration with Victoria University, bringing scientists on-site to count as many different living species as they could find in 24 hours. The event, in which 1,345 species of animals, plants, insects and other life forms were recorded, was also used to promote public understanding and appreciation of the reserve's biodiversity.

Since 2010, following a landscape development plan and plant collections review, some major new projects have been planned to improve visitor experience and use of the reserve. Implementation has started with the development of the Cockayne Centre in the ex-curator's house and improvements to collections including the Fernery, the 38^o South Garden and taxonomic collections.

The Role of Dr Leonard Cockayne, 1855 – 1934



Photograph 12. *Dr Leonard Cockayne, 1928. Photograph: Alexander Turnbull Library*

Dr Leonard Cockayne articulated the vision and underlying principles that have guided the development and management of Otari-Wilton's Bush since the 1920s. The English-born Cockayne emigrated in 1876, first to Australia and then to New Zealand, moving to Wellington in 1914. He led the way in the new science of ecology

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and was recognised as one of the world's leading plant ecologists. He and wife, Maude, are buried at Otari-Wilton's Bush.

Representing the New Zealand Institute of Horticulture, Cockayne worked closely with the Council's Director of Parks and Reserves, J. R. McKenzie, to successfully promote to Council the concept of the Otari Open Air Native Plant Museum in 1926. He was appointed the Council's Honorary Botanist and effectively became the Director of the museum until his death in 1934.

Cockayne divided New Zealand into botanical districts, recording 'virgin' vegetation associations and studying the succession of plant associations after disturbances. His particular interest in wild hybrids was associated with his pioneering work in experimental taxonomy. Cockayne campaigned vigorously for nature reserves and protection of flora from introduced animals. His prolific publishing both in scientific circles and for the lay reader gave his ideas a high profile, helping them become assimilated quickly into botanical teaching.

Otari was a symbol of everything he believed in – conserving primeval New Zealand, advocating the use of native plants in horticultural settings and teaching New Zealanders about ecological groupings of native vegetation. His 1927 and 1932 publications⁷⁷ outlined the guiding principles for the museum, covering:

- a) the development of a **flora collection** 'for the plant-classifier and the student of evolution' with as many native species and hybrids as could be cultivated at Otari, arranged as far as practicable according to plant families;
- b) the display of **vegetation examples** by artificially producing examples of various types of the 'primitive vegetation of New Zealand', such as kauri forest, southern beech forest, tall and low tussock grassland, and various subalpine scrubs;
- c) the restoration of **the forest** as far as possible to its original form, both as to its structure and composition;
- d) the illustration of how indigenous plants could be used for **horticultural purposes**.
- e) Cockayne's vision included naming paths and certain features after eminent botanists, although few of these early names are still in current usage.⁷⁸

The Kauri Grove and Gymnosperm Collection

Cockayne's idea of recreating vegetation associations typical of other parts of New Zealand within the museum was visionary but also experimental, given the still-emerging understanding of ecology, the related site conditions and native plant cultivation. Inevitably, there was mixed success, as Cockayne's Kauri Grove shows.

⁷⁷ MacKenzie, J.G., Cockayne, L. (1927). The Otari Open-Air Native Plant Museum. *Bulletin of the New Zealand Institute of Agriculture*, 34, 309-321; and Cockayne, L. (1932). *A Scheme for the Development and Arrangement of the Otari Open-Air Native Plant Museum, and Other Matters Connected Therewith*. Wellington: Published by the direction of His Worship the Mayor, Mr T.C.A. Hislop.

⁷⁸ See Appendix 4, *Otari Native Botanic Garden and Wilton's Bush Reserve Management Plan 2007* for a map of the tracks, dated 1934, and a list of Cockayne's path names.

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Following ground preparation, the grove was developed during the 1930s on a spur reverting from pasture to native bush below the Flax Clearing. Many of the juveniles were soon damaged by storms and then their growth was suppressed as local native plants regenerated, making maintenance difficult and inducing Ray Mole to later decide to let nature take its course. Although not quite the grove that Cockayne originally envisaged, many of the trees did survive. A survey carried out in 2002⁷⁹ recorded 156 kauri trees with sizes ranging from 48.5 cm to 1 cm diameter at breast height.

Cockayne also started the original New Zealand Gymnosperm Collection towards the bottom of the same spur. Additional tracks were made through the forest. Cockayne intended planting 50 young rimu into the forest "so as to eventually become a grove about two acres in extent." Stan Reid⁸⁰ noted that rimu and nikau palms had been planted in the forest but did not record the numbers and positions. As native regrowth was vigorous, the Gymnosperm Collection was continued near the current Information Centre - Te Marae o Tane building. A few specimens of *Libocedrus plumosa*, kauri, *Phyllocladus* spp, totara, kahikatea, *Halocarpus kirkii*, *Ackama rosaefolia*, taraire and more recently planted rimu persist in the original area.

⁷⁹ By Bill Winstanley and John Waugh

⁸⁰ Reid, S. (1934)

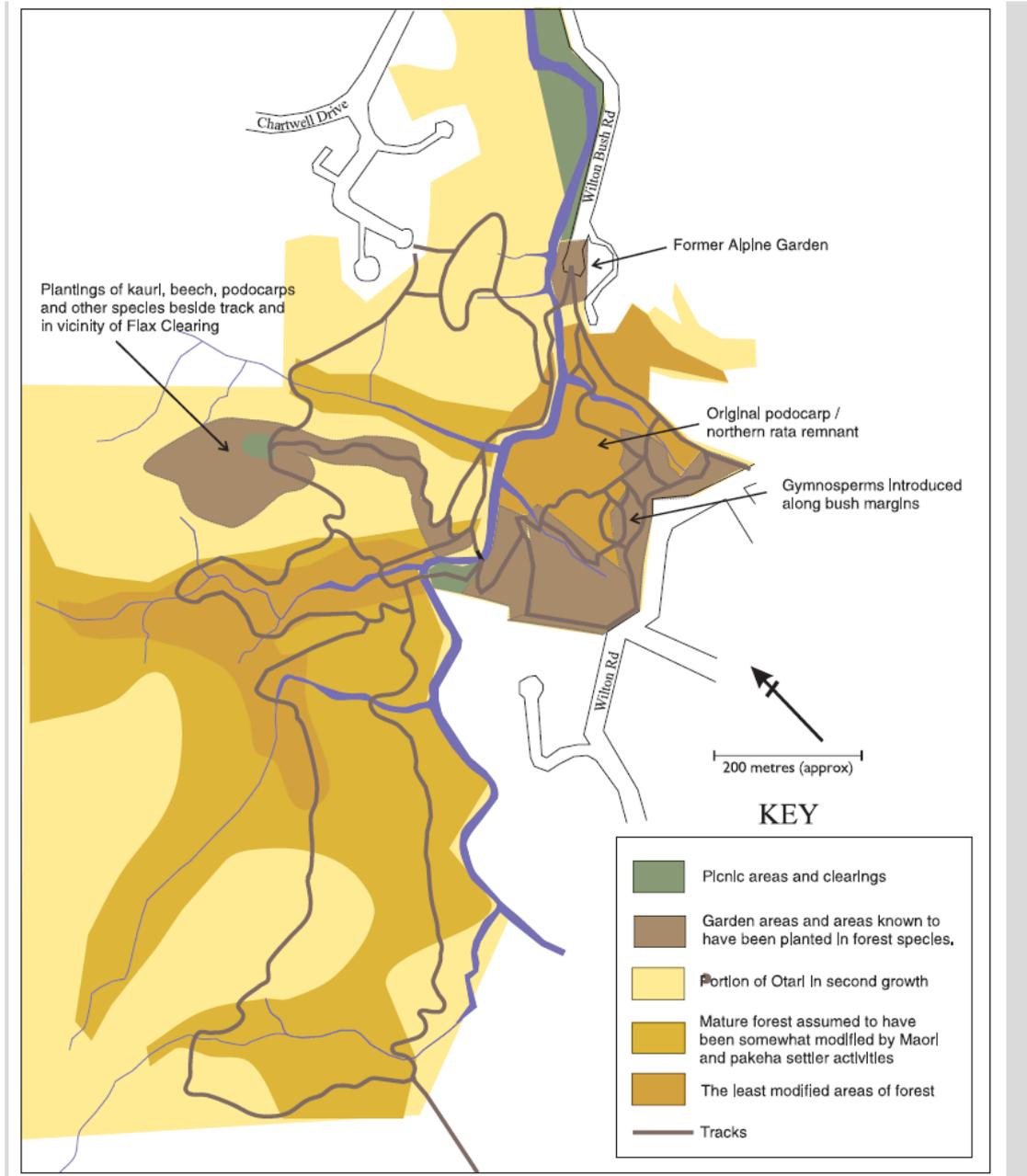


Figure 6: Vegetation modifications, Otari-Wilton's Bush. Information generated from Stan Reid's map, early survey plans and Otari work diaries.⁸¹

⁸¹ Copied from *Otari Native Botanic Garden and Wilton's Bush Reserve Management Plan* (2007), 75.

Plant Collections

The Otari-Wilton's Bush archives are of considerable scientific and historic value as they contain the detailed records that have always been kept of the plant collections, including plant accessions and movements, and introductions into the forest area. These all-important plant records were computerised in 1992. The following outline is a brief summary of the main plant collection developments.

1926 - 1930s

Collections begun during this period included the Hebe⁸², Olearia, Carmichaelia, Pittosporum, Senecio and Grass Collections and the Asplenium Collection, the latter gifted by a Mrs Martin. The Gresley Lukin Alpine Garden was established at the Solander entrance on Wilton Bush Road, the Kowhai Border (now removed) and Pittosporum Border were planted, and a large rockery around the caretaker's residence begun. Work started on establishing areas representing Otira Gorge Scrub Forest, Nothofagus Forest, a Kauri Grove and a North Auckland Coastal Forest.

1940s

The Rock Garden, complete with fish pond, was commenced in 1948, after removal of flowering cherries (from Chapman's gardens). The Gresley Lukin Alpine Garden was abandoned in favour of this new area.

1960s

In the early 1960s, the Karo Hedge bordering Otari School was formed using transplants from near Cockayne's grave.

The Main Cultivar Border alongside the lawn was begun after the 1968 Wahine storm, using plants obtained mostly from garden centres and the Wellington City Council nursery at Berhampore.

The Fernery was developed, ready for planting in the following decade.

1970s

Planting of the Fernery began, using species from the surrounding bush, private collectors and the Wildlife Service.

The Wild Garden was established in an area badly damaged by the Wahine Storm, taking advantage of the altered site conditions to plant tree and shrub species from other parts of New Zealand that grow well under a forest canopy.

In the mid-1970s the area between Wilton Bush Road and Churchill Drive was cleared of exotic species and 500 specimens representing the five types of Nothofagus which occur in New Zealand were planted. The Dracophyllum Garden was started in the late 1970s.

⁸² Instigated when the New Zealand Institute of Horticulture became the international registration authority of the genus Hebe for the International Society for Horticultural Science.

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A Flax Cultivar Collection was developed between 1975 and 1980, replacing a border of *Coprosma* species and hybrids, and a *Pomaderris* Collection was started in 1975. The north-facing extension of the Main Cultivar Border was started in the late 1970s.

1980s

Earlier grass plantings along the Karo Hedge were formally developed into a Grass and Sedge Collection in 1980.

A Divaricate Border was established in 1985, to replace a *Leptospermum* Cultivar Collection which was abandoned after years of problems with scale insects.

The Hebe Cultivar Collection was moved closer to the main cultivar border to overcome mildew problems at the old site, where, in 1989, the *Olearia* Border was moved from its original site to overcome unsuitable soil problems.

1990s

A new Hebe Species Border was developed where the *Olearia* garden had been, to make more space available. It complemented the old Hebe Species Border, established under Cockayne, to which more species had been added during the 1960s and 1970s.

The Volcanic Plateau Section, with alpine species, replaced an Alpine Bog Garden when the work required to maintain the bog garden proved too great.

A number of new collections were begun in this decade: an Asteraceae Collection in 1992; a Clematis Collection in 1994; and, in 1996, a Marlborough Collection, a *Pseudopanax* Collection and a Juvenile/Adult Collection. Subsequently, a *Coprosma* Collection and a Threatened Species Collection have also been developed.

The Kowhai Border adjacent to Otari School was removed in 1994 because of *Armillaria mellea* infection.

2000s

Two duplicate collections were established in 2004 and 2005 of off-site collections containing predominantly alpine plants, which included several threatened species in the wild and rare in cultivation. These were the Dench Collection, a private plant collection held by Arnold and Ruth Dench, and the Druce Collection (A. P. Druce), held at Percy Scenic Reserve, Lower Hutt.

A list of current plant collections is contained in Appendix .

VI. Truby King Park

Truby King Park is a locally and nationally significant place for its historic connection with Sir Frederick Truby King, the co-founder of the internationally influential New Zealand Plunket Society and influential proponent of maternity, infant and child care philosophies that were influential through much of the 20th century.

The Park comprises King's house, gardens and mausoleum – part of the larger property at Mount Melrose that King developed during the 1920s for both his own residence and the headquarters of the Plunket Society and the related Karitane infant products factory and maternity hospital. The layout of the buildings and extensive surrounding gardens was very much King's creation, reflecting not only his personal design preferences but also concepts related to his wider philosophies about people's health and wellbeing.

Māori History

Truby King Park lies along the ridgeline of Te Ranga a Hiwi – or the ridge of Hiwi. Hiwi was the son of the daughter of Tara, the eponymous ancestor of Ngāi Tara. The ridge was an important feature to Māori prior to 1840. It connected the ancient Pā in the harbour area, through to the significant Akatarewa Pā located on Mt Alfred and the South Coast Pā of Uruhau. In the times of Taranaki Whānui the ridgeline was a feature associated with the harbour Pā of Te Aro with its ngākinga/gardens extending into the Newtown area and the kainga of Mapunga at Island Bay.

The Mount Melrose piece of the ridgeline of Te Ranga a Hiwi did not have Pā or other sites of significance for Māori aside from being a part of this important ridgeline.

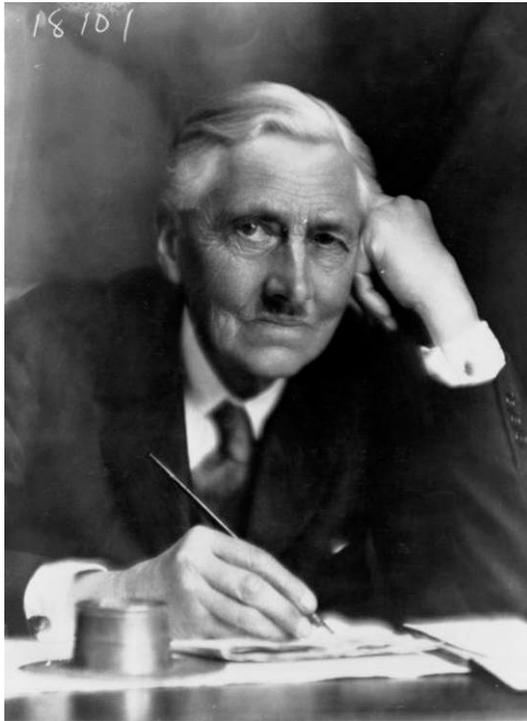
Truby King (1858 – 1938)

Sir (or Dr, as he preferred to be known) Truby King was born in New Plymouth in 1858. He studied medicine in Edinburgh, where he graduated in 1886 and then spent two more years studying for his B.Sc in Public Health. With his Scottish wife, Isabella, he returned to New Zealand in 1887 where he was appointed medical superintendent at Wellington General Hospital and then, in 1889, of Seacliffe Asylum in Dunedin. His subsequent career was busy and varied, including involvement in the fields of psychological medicine, medical jurisprudence, alcoholism, nutrition and child care. He was noted for his innovation and ability to span fields of knowledge. For instance, from his interest in agricultural science and the feeding of plants and animals, he developed theories on the parallels between good animal nutrition and good nutrition for children.

In 1907, Truby and Isabella King co-founded the Society for the Health of Women and Children, which soon became known as the 'Plunket Society' from the name of its first patron, Lady Plunket, wife of the Governor General. It became the Royal New Zealand Society for the Health of Women and Children after receiving a royal charter in 1916. The Society's aim was to reduce high infant mortality rate through the promotion of breastfeeding, domestic hygiene and strict adherence to routine. King wrote a number of frequently reprinted publications on these subjects. Plunket

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Society clinics and 'Karitane' hospitals were opened throughout New Zealand and, in due course, in other Commonwealth countries.



Photograph 13. Sir Truby King, circa 1918. Photograph: Alexander Turnbull Library.

Amongst his various roles, he was appointed a child welfare expert to the Red Cross Conference after World War I, and Inspector of Mental Asylums and the Director of Child Welfare in the Health Department. It was the latter role that, in 1921, brought the Kings to Wellington where, in 1923, they bought land at Mount Melrose and developed it for their own house and garden as well as a Karitane hospital, maternity hospital and Karitane infant food products factory. After he retired from his Government roles in 1927, King devoted much of his remaining time and energy to the gardens at Mount Melrose. He became increasingly eccentric and reclusive after Isabella died in 1927. He died in 1938.

Truby King was awarded a Companion of St Michael and St George in 1917 and was knighted for his services to health in 1925. He was the first private New Zealand citizen to be granted a state funeral. King was a highly influential figure, whose work has affected many New Zealanders. He was held in very high esteem by his own and subsequent generations, even though his professional reputation and the role of the Plunket Society in reducing infant mortality has subsequently been revisited.

The Development Years at Mount Melrose (1922 – 1932)

When, in 1922, the Kings purchased their 10 acre (4 hectare) property at Mount Melrose, Truby King had plans to develop it for both his own residence and for facilities related to the Plunket Society. He commissioned eminent architect Willam Gray Young to design his own bungalow-style home and the Karitane Products Society factory, both of which were completed on the property in 1924. He then commissioned Young to design a Karitane hospital to be built on a site he

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donated for the purpose to the southeast of his house. Funds were raised through public donations with help from the Rotary Club of Wellington and the new hospital was opened by the Duchess of York in 1927.

Meanwhile, King set about planning, designing and supervising the development of the grounds around the house and factory. Prior to any building taking place, he and his adopted daughter, Mary, had planted trees for wind breaks on the windswept, gorse and broom-covered hilltop site. Then, with head gardener Daniel Russell and considerable hired labour, King created an impressive garden, remarkable for its complex layout of pathways and extensive brick structures, as well as the hundreds of exotic plants that King obtained from both New Zealand and overseas sources. Of particular note was the rhododendron dell, which was, according to his daughter Mary, regarded as the finest in the southern hemisphere.

Remarkable too was the absence of any written or drawn plan of the garden. King apparently carried the design in his head, including his adept use of the natural topography of the spectacular ridge-top site. The house, for instance, was positioned to maximise sun and light, the garden designed to weave around the contours and the factory designed to take advantage of the sloping hillside it was built on. King's papers contain very little about his specific design preferences⁸³ and it seems his decisions were largely governed by the plants that appealed to him and his interests in plant health, soil conditions, garden maintenance and plant collections. No particular garden style or tradition is evident and it would seem that the "Mount Melrose garden is the individual creation of one person."⁸⁴

The design of the grounds and buildings reflected ideas that were important to King. His interest in gardening and plant husbandry, for instance, was connected to his views, first developed when he was in charge of Seacliffe asylum and later carried into his philosophies on child welfare and mothercraft, that there was a relationship between people's wellbeing and their physical environment. Maximising sun and light was a favourite concept and all the buildings, while unpretentious in their design, were of high quality design and construction. The surrounding gardens were intended to be places for people to find refreshment and inspiration, and to demonstrate King's ideals.

Plunket and Karitane Management (1932 – 1990)

Isabella's death in January 1927 affected King greatly, and heralded his gradual decline and withdrawal from public life. In 1932, he gifted his house to the Plunket Society. However, he died a bankrupt. He had been profligate with money, apparently taking out mortgages to finance his publications, the Mount Melrose property development and many other ventures. The estate was eventually settled through an agreement between the Public Trustee, Mary King and the Karitane Products Society (KPS) whereby the house was transferred to the Plunket Society, the Plunket Society received the profits from the KPS factory, KPS took possession

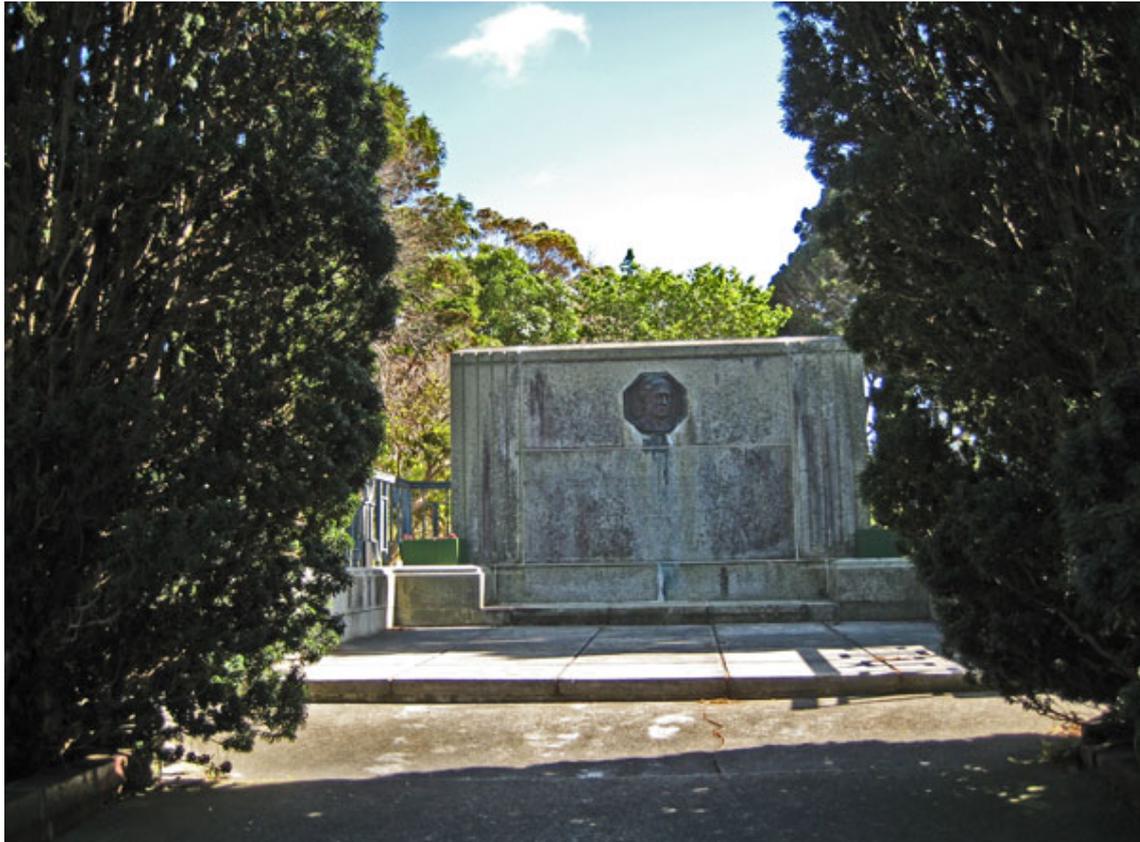
⁸³ *Truby King Park Wellington, Draft Conservation and Management Plan (1992)*, 32.

⁸⁴ *Ibid*

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of the mortgaged land and Mary King received most of King's large library, his copyrights and other possessions.

When Truby King died in 1938, special legislation was passed allowing him to be buried, with Isabella, in a mausoleum at the bottom of the hill below the house. The mausoleum was built, using a Government financial contribution and funds raised by the Plunket Society, and unveiled by Governor General, Sir Cyril Newall, in 1941. Isabella's remains were exhumed from Porirua and put with King's.



Photograph 14. *The Truby King Mausoleum is part of Truby King Park and is registered as a Category 1 Historic Place. Photograph courtesy of the Friends of Wellington Botanic Gardens.*

After King's death, the house was used by the Plunket Society and also leased to tenants, except for a period during World War II to 1942, when it was commandeered by the Army.

Dan Russell was kept on as head gardener. The garden was reputedly in its best condition in the early 1940s, prior to his retirement in the same decade.

Yopp and Jan Tetteroo took over the garden in the 1950s, by which time it had apparently become overgrown and neglected. It was during this period that most of King's original plantings were lost during clearance work, including the rose hedge along the driveway and many plants in the rhododendron dell. The sowing of grass and planting of new trees in cleared areas changed the garden's character. Stone

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walls of a different character were also constructed to try to contain erosion that had developed after clearance work on the banks around the walkways.

Extensive damage was reportedly inflicted by the Wahine storm of April 1968 but little more than routine maintenance was carried out for more than two decades after that, with little or no evidence of replacement planting. By 1990, the garden was in a poor state, overgrown with neglected plantings and self-sown trees and shrubs.

By the late 1970s, the Plunket Society was in financial trouble, reflecting changing attitudes that saw King's ideology fall out of favour and demand for the Karitane infant food products decline. The Karitane hospitals around the country were closed, including the one at Mount Melrose, which closed in 1978 and was sold into private ownership in 1982, later to become a conference centre. The factory, which had continued in production until the mid-1980s, was sold in 1988, together with its land and associated buildings. These were leased and eventually sub-let into five titles.



Photograph 15. Funeral procession of Sir Frederick Truby King, February 1938, bringing the coffin up to the vault. The mausoleum was not built at this time. The extent of the gardens at

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the Mount Melrose property can be seen in the gardens on the slope below the Karitane Hospital pictured. Photograph: Alexander Turnbull Library, photographer unidentified.



Photograph 16. *View of the garden surrounding the home of Frederic Truby King in Melrose, Wellington, April 1943. The garden was in its heyday around this time. The house can just be seen above the trees at the top of the rise. Photographer John Dobree Pascoe. Alexander Turnbull Library.*

Council Ownership and Management (1990 – 2014)

In 1988, the New Zealand Plunket Society put Sir Truby King's house and garden up for sale as well as the factory land. A public meeting was called that year, at which it was suggested that the Wellington City Council might purchase the property. In September 1988, the Council resolved to begin negotiations and by May 1990 had acquired, from the Society and other adjacent landowners, three lots of land that had been in the original estate including the house and mausoleum.

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Early in the negotiations, the Council's Director of Parks and Recreation, wrote to Truby King's daughter, Mrs Mary White, by then living in South Australia, to notify her of the Council's intentions, which included retaining the homestead, burial site and grounds intact and more or less in their original condition, and calling the site the 'Sir Truby King Park'. Mrs White wrote back expressing her delight but also, her preference for the property to be called just 'Truby King Park'. She explained,

*"Dr King accepted the honour as a mark of appreciation of the fine works of the members of the Plunket Society since its foundation in 1907, and he always preferred to be referred to as Doctor. Were he alive today this would be his wish – just Truby King Park."*⁸⁵

Meanwhile, in 1989 and 1990, Truby King's house⁸⁶, mausoleum⁸⁷ and the Karitane Products Society factory building⁸⁸ had been registered as Category 1 Historic Places with the New Zealand Historic Places Trust.

Following the land purchase, the Council carried out some preliminary improvement work on the neglected garden, while preparing a management plan. A detailed landscape inventory and assessment of the garden was done, King's archive at the Hocken Library in Dunedin extensively researched and considerable public consultation undertaken. A draft management plan was completed in 1991, followed by the *Truby King Park, Wellington, Draft Conservation and Management Plan*, which was completed in June 1992 and approved in 1993.

These documents recognised the acquisition of the property as an opportunity to extend the public open space of the adjacent Wellington Town Belt and to reconstruct an important part of the city's heritage. While the house was in need of repairs, it was still in reasonable condition, and though the garden had been badly neglected, its structure and form were still largely intact. It was proposed to 'protect and manage the house and mausoleum in a sensitive and dignified manner' and to reconstruct and manage the garden 'to as near as practicable to its original form and character'⁸⁹. The garden's reconstruction would be based on the form and character of the garden illustrated in a photograph taken in 1943 (see Photograph 4), given it was considered to have been in its heyday, as designed by Truby King, in the early 1940s. It was decided, however, that the stone walls built in the 1950s would be retained as part of the garden's history.

In 1991, the Council decided to manage Truby King Park as one of four 'Botanic Gardens of Wellington' which were to be managed under a Botanic Gardens Manager.

⁸⁵ As quoted in *Truby King Park Wellington, Draft Conservation and Management Plan* (1992), 16.

⁸⁶ NZHPT (1989) Registration No. 4427

⁸⁷ NZHPT (1990), Registration No. 4430

⁸⁸ NZHPT (1989) Registration No. 4430

⁸⁹ *Truby King Park Wellington, Draft Conservation and Management Plan* (1992), 57.

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In 1992 the area was listed as Open Space D in the Wellington District Plan and, in 1995, was gazetted as an Historic Reserve. In 2006, the New Zealand Historic Places Trust registered the combined area covering the King's house and mausoleum, the former Karitane factory and hospital, and the surrounding gardens remaining from King's original design as the Truby King Historic Area⁹⁰.

Early in the 1990s, garden clearance and restoration work began. A number of significant historical trees were noted, but only four rhododendrons that were probably planted by King remained. Some trees and dead wood were removed and small scale replanting begun. Paths and driveways around the house were regraded and re-asphalted, and the brickwork repaired, using the same bricks, as originally, which were made in Miramar during the 1920s. The house was fireproofed in 1994 and re-roofed in 2005.

Work stagnated in the late 1990s but interest in its management as one of the city's botanic gardens resurged the early 2000s. In 2002, the Truby King House and Garden Trust was formed to support the Council in conserving, restoring and maintaining the house and garden, and encouraging its public use, including annual open days.

⁹⁰ NZHPT (2006), Registration No.7040.

List of Figures

1. Botanic Garden Kumutoto Ngakinga.
2. Bolton Street Cemetery, circa 1852
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1. **The Main Garden, circa 1907.** Mabsie Hislop with Mr and Mrs Mae in the Botanical Gardens, Wellington. Hislop, Harold Stevens, d 1933 :Photograph albums. Ref: PA1-o-229-3. Alexander Turnbull Library, Wellington, New Zealand. <http://natlib.govt.nz/records/22883549>
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10. **The St Paul's Chapel, in the Bolton Street Cemetery, circa 1920s-1940s.** Robson, Edward Thomas, 1875-1953. Robson, Edward Thomas, fl 1920s-1940s? (Photographer) : Bolton Street Cemetery, Wellington, with St Paul's Chapel. Original photographic prints and postcards from file print collection, Box 13. Ref: PAColl-6407-05. Alexander Turnbull Library, Wellington, New Zealand. <http://natlib.govt.nz/records/22299236>
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The main references used in preparing the background histories in this management plan are listed below. Note that there are more extensive reference lists in the earlier management plans (see below) upon which the current updated histories are based.

Particularly recommended for those wanting to find detailed historical accounts of the botanic garden areas are *The Botanic Garden, Wellington - A New Zealand History 1840-1987* by Winsome Shepherd and Walter Cook; *Unquiet Earth, a History of the Bolton Street Cemetery* by Margaret Alington and online information at the NZ Historic Places Trust website about the registered historic places and areas in the various gardens.

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Appendix 3: Global Strategy for Plant Conservation 2011 - 2020

Objective I: Plant diversity is well understood, documented and recognized

Target 1: An online flora of all known plants.

Target 2: An assessment of the conservation status of all known plant species, as far as possible, to guide conservation action.

Target 3: Information, research and associated outputs, and methods necessary to implement the Strategy developed and shared.

Objective II: Plant diversity is urgently and effectively conserved

Target 4: At least 15 per cent of each ecological region or vegetation type secured through effective management and/or restoration.

Target 5: At least 75 per cent of the most important areas for plant diversity of each ecological region protected with effective management in place for conserving plants and their genetic diversity.

Target 6: At least 75 per cent of production lands in each sector managed sustainably, consistent with the conservation of plant diversity.

Target 7: At least 75 per cent of known threatened plant species conserved in situ.

Target 8: At least 75 per cent of threatened plant species in ex situ collections, preferably in the country of origin, and at least 20 per cent available for recovery and restoration programmes.

Target 9: 70 per cent of the genetic diversity of crops including their wild relatives and other socio-economically valuable plant species conserved, while respecting, preserving and maintaining associated indigenous and local knowledge.

Target 10: Effective management plans in place to prevent new biological invasions and to manage important areas for plant diversity that are invaded.

Objective III: Plant diversity is used in a sustainable and equitable manner

Target 11: No species of wild flora endangered by international trade.

Target 12: All wild harvested plant-based products sourced sustainably.

Target 13: Indigenous and local knowledge innovations and practices associated with plant resources maintained or increased, as appropriate, to support customary use, sustainable livelihoods, local food security and health care.

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Objective IV: Education and awareness about plant diversity, its role in sustainable livelihoods and importance to all life on earth is promoted

Target 14: The importance of plant diversity and the need for its conservation incorporated into communication, education and public awareness programmes.

Objective V: The capacities and public engagement necessary to implement the Strategy have been developed

Target 15: The number of trained people working with appropriate facilities sufficient according to national needs, to achieve the targets of this Strategy.

Target 16: Institutions, networks and partnerships for plant conservation established or strengthened at national, regional and international levels to achieve the targets of this Strategy.

Appendix 4: Wildlife in the Wellington Botanic Garden and Otari Wilton's Bush

Birds

Bird counts have been conducted at Otari Wilton's Bush and the Botanic Gardens once or twice a year since 2001.

Through the bird counts, there are 11 species of native bird found at Otari Wilton's Bush, and 13 introduced species. The Botanic Garden is home to 7 native species and 14 introduced species. The four most commonly found native species at both gardens are the tui, silvereye, grey warbler and fantail.

The difference in habitat between Otari Wilton's Bush and the Botanic Gardens shows through the bird counts. Four out of the five most common species in the native forest at Otari Wilton's Bush are native. Species found in counts at Otari Wilton's Bush but not at the Botanic Garden are bellbird, shining cuckoo, falcon and kakariki.

The mix of species found in bird counts at the Botanic Garden reflects the far more urbanised environment. Only two of the top five species are native. Species found here but not at Otari Wilton's Bush are the mallard, the rock pigeon and seagulls.

The total abundance of birds has increased to some extent, but it is the difference in species composition over the last 10 years that is more marked. Species abundance has been gradually increasing since bird counts began in 2001. This increase has been significant at Otari Wilton's Bush. In the last 10 years, the number of native species found at Otari Wilton's Bush has increased from 6 to 10 with bellbird, falcon, kaka and kakariki now regularly appearing in counts. Species numbers have remained more static at the BG, with kaka being the most noticeable new inhabitant. Kaka have been visiting both areas since 2008 and are now suspected to be breeding in the Botanic Gardens. The Kaka population in the Botanic Garden is more robust than at Otari Wilton's Bush, potentially due to the year round food source provided by the exotic vegetation.

There are relatively high numbers of rosella at Otari Wilton's Bush (the 9th most common bird), which is a species to watch due to competition with native species for nest cavities. This is particularly important with kakariki (a similar sized parakeet) now appearing in Otari Wilton's Bush.

FYI – full list of species in order of abundance (natives in bold)

Otari Wilton's Bush	Botanic Gardens
silvereye	silvereye
tui	blackbird
blackbird	tui

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grey warbler	chaffinch
fantail	starling
chaffinch	house sparrow
starling	fantail
kereru	grey warbler
rosella	goldfinch
house sparrow	hedge sparrow
song thrush	kingfisher
hedge sparrow	carrier pigeon
kingfisher	kaka
bellbird	song thrush
paradise shelduck	greenfinch
kaka	rosella
shining cuckoo	mallard
goldfinch	seagull
magpie	kereru
sulphur cockatoo	yellowhammer
greenfinch	magpie
yellowhammer	
falcon	
kakariki	

Lizards

There are eight lizard species found in the Wellington area. Of these, four have been recorded in Otari Wilton's Bush and the Botanic Garden. The only species found in the Botanic Garden is the common skink, although there is potential habitat for further species. Otari Wilton's Bush has a strong population of Southern North Island forest geckos, which are commonly found around the more formal gardens and rock walls. Also found in Otari Wilton's Bush are brown, common and ornate skinks. Wellington green geckos (a threatened species) are suspected at Otari Wilton's Bush but more survey work is required to confirm their presence.

Appendix 5 Bioblitz 2007 Summary

<i>Category</i>	<i>Total Species</i>
Algae	91
Beetles	82
Birds	19
Fish	5
Flies	95
Freshwater invertebrates	6
Fungi	30
Insects and other bugs	340
Lichens	10
Liverworts and hornworts	51
Lizards and Frogs	4
Mammals (bats & exotics)	2
Molluscs	19
Mosses	73
Moths / butterflies	11
Nematodes	1
Spiders	40
Vascular plants - adventive	153
Vascular plants - native	208
Wasps, bees and ants	26
Zooplankton/Protozoa	79
Total Species Count	1345