

# ARBORICULTURAL ASSESSMENT REPORT

Client:	Auckland Transport
Site Address:	Carrington Road between Great North Road and New North Road, and Segar Avenue, Mount Albert, Auckland
Proposal:	Tree Survey for the Proposed Upgrade of Carrington Road
Compiled by:	Stuart Barton
Date of Report:	17 April 2025 – Final Ver 3

#### 1.0 Introduction

- 1.1. Our company received instruction from Alex Smith from Boffa Miskell, on behalf of Auckland Transport, to prepare an arboricultural assessment report on the Carrington Road Improvements Project (the Project).
- 1.2. This report has been commissioned to assess how the Project will impact the subject trees.
- 1.3. I met on-site with Alex to discuss the proposal on 2 October 2024 and collected data on the trees on 15 October 2024.
- 1.4. The following report is based upon the findings of those visits and the conditions found.
- 1.5. The following appendices are attached to this report:
  - Appendix A Tree Survey Data
  - Appendix B Tree Location Plans
  - Appendix C Documentation
- 1.6. All assessments were made from ground level. While the tree dimensions were measured, they should be viewed as approximate only. Trees on private land were assessed from the road reserve, and their trunk measurements were estimated.

## 2.0 Project Description

- 2.1. Carrington Road is a 1.6 km-long arterial road on the Auckland isthmus, which connects New North Road at the Mt Albert Town Centre in the south and Great North Road at the Point Chevalier Town Centre in the north. Auckland Transport (AT) has proposed the Carrington Road Improvements Project (CRIP) to serve planned growth and intensification in the area and to achieve long-term strategic network outcomes for the corridor, particularly a higher level of service for active modes and public transport.
- 2.2. To these ends, the CRIP comprises the following road upgrades, which include a section of widening on the western side of the road between Woodward Road and State Highway 16 (SH16):
  - Bus/special vehicle lanes (TBC) for most of the corridor length in both directions and new/relocated bus stops;
  - Improved walking and cycling facilities along the entire corridor length in both directions, new midblock crossings, and a new pedestrian bridge to supplement the existing Mt Albert Rail Bridge;
  - Upgraded intersections along the entire corridor length, including four new/upgraded signalised intersections,
  - New stormwater management infrastructure, including treatment and conveyance swales on Segar Avenue; and
  - Public realm placemaking/landscaping and new street trees
- 2.3. In conjunction, Watercare Services Limited (Watercare) has proposed the Point Chevalier Watermain No. 2 Project (the Watermain) along Carrington Road. The Watermain is a Ø750mm concrete-lined steel (CLS) pipeline approximately 1km in length between Seaview Terrace and Sutherland Road and forms part of a wider scheme to improve supply, maintain levels of service, and provide resilience to both the Point Chevalier and Khyber water supply zones. The design and planning for the

- Watermain have been expedited to realise efficiencies with the CRIP and to enable the projects to be constructed concurrently.
- 2.4. Unless otherwise noted, the CRIP and Watermain projects are referred to collectively in this report as 'the Project'. The Project extent is shown in Figure 1. A complete Project Description can be found in Section 3 of the Assessment of Effects on the Environment (AEE) report.

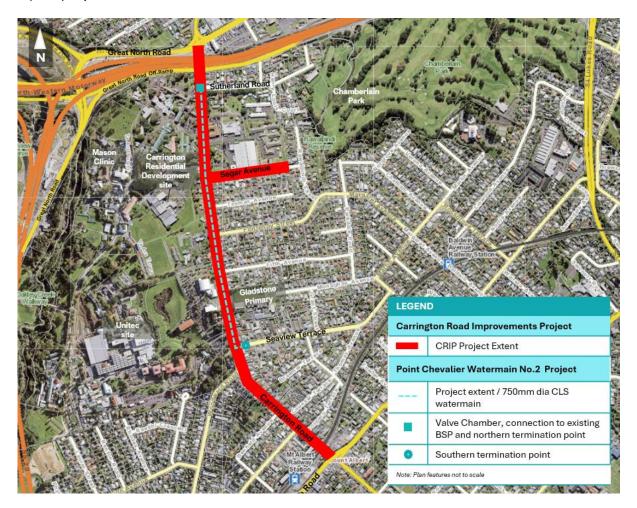


Figure 1: Project extent.

## 3.0 Tree protection rules

- 3.1. The proposal has been assessed under the Auckland Unitary Plan: Operative in Part (AUP: OiP).
- 3.2. The tree rules that apply to the street trees in this proposal are E26.4 Infrastructure Network utilities and electricity generation Trees in roads and open space zones and the notable trees overlay. Relevant resource consent triggers are listed in section 5.0 of this report.
- 3.3. Some of the trees in the survey are listed in the AUP: OiP Chapter I Precincts: I334 Wairaka Precinct Table I334.6.7.1 Identified Trees. This table lists trees that are afforded protection under the unitary plan. The tree protection section of the Wairaka Precinct states that trees located within an existing or future road-widening area along the

Carrington Road frontage are not subject to the tree protection controls of Wairaka Precinct (I334.6.7 Tree Protection (1)).

#### 4.0 Arboricultural Assessment

4.1. The trees were assessed to determine if they required removal, works within the protected root zone for the street trees or their root zone for the private trees, pruning to provide a minimum of 2.5 m over the footpaths and cycleways, or if the proposed works avoid any disturbance of their root zones.

## Street Trees - Carrington Road

- 4.2. Seventy-five street trees were surveyed. Thirty-five will require removal for the proposed upgrade. Twenty-five of these will require resource consent for their removal, seven of which are in poor health. The remaining nine can be removed as a permitted activity, seven of which are in poor health or are pest plants. Tree owner approval will be required for the removal of the 35 trees.
- 4.3. Two street trees will require work within their protected root zone. Tree 54 is a melia tree on Fontenoy Street. Excavation for the proposed raised table at the Fontenoy Street and Carrington Road intersection will be about 2.5 m from the tree's trunk. Less than 10 % of the protected root zone will be disturbed, and it is anticipated that no roots over 80 mm in diameter will be encountered.
- 4.4. Tree 77 is a large pōhutukawa tree outside 131 Carrington Road towards the Woodward Road intersection. The footpath is proposed to be approximately 2.75 m from the tree, with the cycleway just beyond that. Many surface roots are at this distance, some over 80 mm in diameter. The final design, which is yet to be determined, will need to allow for the retention of most roots. A bridging system is likely to be the most practical.
- 4.5. Tree 77 will require pruning to provide clearance over the footpath and cycleway. Approximately four branches between 100 and 120 mm in diameter will require removal.
- 4.6. Resource consent will be needed for the works within the protected root zone and pruning of Tree 77. The works within the protected root zone of Tree 54 is a permitted activity. Tree owner approval will be required for the two trees. The proposed work will be within the tolerances of these trees

### **Private Trees – Carrington Road**

- 4.7. Fifty-three private trees and hedges were surveyed; of those 53, 36 (including three hedges) will require pruning or trimming to provide 2.5 m clearance over the footpath or, in the case of Tree 67, to allow for the construction of the footbridge over the rail lines. The pruning of two trees (Trees 3 and 67) is considered major. The pruning of Tree 3 will be necessary even if the upgrade is not occurring as they are over the existing footpath.
- 4.8. The proposal has managed to retain two puriri (Trees 122 and 126) and a karaka (Tree 123) located before State Highway 16. Significant roots will likely require removal to excavate the footpath and cycleway. To ensure the tree's successful retention, the footpath construction methodology should be such that minimal excavation is required and structural soil is used as the sub-base to allow roots to grow under the footpath into the adjacent open space.
- 4.9. Nine trees and two hedges located within 131 Carrington Road will require removal. They are located within the proposed zone for the widening of the road reserve.

- 4.10. Two trees are not affected by the proposal.
- 4.11. The Tree Protection Methodology outlined in Section 7 must be followed for the private trees to be successfully retained.

#### 1334 Trees

- 4.12. Of the street and private trees assessed above, three (Trees 85, 95 and 127) are listed in the Wairaka Precinct Table I334.6.7.1 Identified Trees.
- 4.13. Tree 85 is a variegated kohuhu identified as Tree 45 in Table I334.6.7.1. It is proposed for removal. It is uncertain why it is listed as it's a street tree and not located within the Wairaka Precinct boundary. It is in poor condition and will require removal. Resource consent for its removal is necessary because it is a street tree, and it has been included in the Carrington Road Street tree assessment above.
- 4.14. Tree 95 is a liquidambar identified as Tree 47 in Table I334.6.7.1. It is proposed for removal. Resource consent is not required for its removal as it is not afforded protection measures as the work is for road widening.
- 4.15. Tree 127 is a sky flower identified as Tree 18 in Table I334.6.7.1. It is proposed for removal. Modifying the shared footpath and cycleway to accommodate this tree is not practical as the tree is in poor condition and has a limited lifespan. Resource consent is not required for its removal as it is not afforded protection measures as the work is for road widening.
- 4.16. Tree 129 is a cypress "Swane's Golden" identified as Tree 16 in Table I334.6.7.1. The proposal does not affect it as the tree is on top of a retaining stone wall that is to remain.

### Segar Street - Trees 15 - 46

- 4.17. It is proposed that two swales connected by a stormwater line be constructed in the wide grass berm on the northern side of the street. 32 trees were included in the survey of this street. Of the 32 trees surveyed, 14 are implicated by the proposal.
- 4.18. Fourteen street trees are proposed for removal. Seven of these trees will require resource consent. The other seven trees can be removed as permitted works. Six of the seven that can be removed as permitted works are in poor condition and have a limited life span.
- 4.19. No pruning is needed for the proposed swale and stormwater line construction.
- 4.20. The removal of the 14 street trees will require Tree Owner Approval.

### Point Chevalier Watermain No. 2

- 4.21. The proposed alignment of the watermain is within the proposed road widening of Carrington Road. It will be outside of the protected root zones of the trees to be retained.
- 4.22. There are no trees on Seaview Terrace where the watermain will terminate.

#### 5.0 Resource Consent Matters

5.1. The trees in this report have been assessed under the AUP, specifically E26 Infrastructure – Network utilities and electricity generation – Trees in roads and open space zones and the notable trees overlay – Activity table E26.4.3.1 and Chapter I Precincts: I334 – Wairaka Precinct I334.6.7 – Tree protection.

# 5.2. Under rule E26.3.4.1, resource consent will be required for the following:

	Activity	Activity Status	Trees affected
(A84)	Tree trimming or alteration that does not comply with Standard E26.4.5.1 (Trees in streets and open space zones) or Standard E26.4.5.3 (Notable trees)	Restricted Discretionary	Tree 77
(A88)	Works within the protected root zone not otherwise provided for	Restricted Discretionary	Tree 77.
(A92)	Tree alteration or removal of any tree greater than 4m in height and/or greater than 400mm in girth	Restricted Discretionary	Trees 1, 18, 19, 20, 23, 25, 37, 42, 58, 61, 79, 81, 82, 85, 86, 87, 92, 102, 103, 104, 105, 106, 107, 109, 110, 111, 113, 115, 116, 117, 120 and 130. Total number – 32 (25 on Carrington Road, 7 on Segar Avenue)

# 5.3. Assessment criteria from an arboricultural perspective:

a) The extent to which effects on the
values of the tree or trees including
any effects on the natural shape, form
and branch habit and the root network
can be minimised.

 The root network of Tree 77 will be affected where the disturbance of the protected root zone is to occur. However, with the correct tree protection methodology in place, the effects will be minor as the amount of root removal is well within the tolerances of the tree. There will be no long-term detrimental effects on the tree.

b) The extent to which any impact on the immediate or long-term health and stability of the tree or trees is able to be minimised or avoided	<ul> <li>The construction methodology for the proposed work around Tree 77 will be approved by an arborist before the project starts.</li> <li>A comprehensive set of tree protection measures has been prescribed in the Tree Protection Methodology in Section 7.0 of this report to minimise the effect of the proposed works upon the trees.</li> </ul>
c) The risk of actual damage to people and property from the tree or trees including the extent to which adverse effects on the health and safety of people have been addressed.	The trees do not pose any health and safety risks.
d) The degree to which any proposed mitigation adequately responds to the effects on the tree or trees.	<ul> <li>The comprehensive set of tree protection measures prescribed in the Tree Protection Methodology in Section 7.0 of this report will mitigate any adverse effects during construction.</li> <li>A comprehensive planting plan with a significant increase in the number of street trees in the proposed boundaries will mitigate the removal of the 32 protected trees.</li> </ul>
e) The degree to which the proposal is consistent with best arboricultural practice guidelines for tree management.	<ul> <li>The management of the trees during construction will follow the best arboricultural practice.</li> <li>Removing trees is not consistent with best arboricultural practice guidelines but is required to allow for the addition of cycleways for the upgrade.</li> </ul>

f) Whether there is a need for the direction and supervision of a qualified arborist while the works are being carried out.	A qualified arborist will monitor all works within the protected root zone of the trees.
g) The extent to which functional and operational requirements make the works necessary.	• N/A

5.4. Under rule E267.4.3.1 the following are permitted activities if they comply with Standards E26.4.5:

	Activity	Activity Status	Trees affected
(A82)	Pest Plant Removal	Permitted	Trees 83 and 84.
(A83)	Tree trimming or alteration	Permitted	Tree 73.
(A87)	Works within the protected root zone that comply with Standard E26.4.5.2	Permitted	Tree 54.
(A91)	Tree alteration or removal of any tree less than 4m in height and/or less than 400mm in girth	Permitted	Trees 16, 17, 29, 33, 39, 66, 78, 80, 101, 108, 112 and 119. Total number - 12

5.5. Trees 85, 95 and 127 listed in Table I334.6.7.1 – Identified Trees of the I334 Wairaka Precinct are not subject to the tree protection rules I334.6.7 Tree Protection as they are located within the road-widening area along Carrington Road Frontage.

# 6.0 Recommendations for Mitigation

6.1. Under the Preliminary Design, a minimum of 84 specimen grade trees are proposed to be planted as part of the Project to mitigate the removal of the 32 street trees and achieve betterment. It is considered that the proposed tree planting far exceeds mitigation requirements of the Resource Management Act 1991 and the AUP: OP, and exceeds the

recommendations for replacement planting in Auckland Council's Urban Ngāhere Strategy.

6.2. The effect of this proposal on the trees to remain is considered to have minimal adverse effects in the short term if the Tree Protection Methodology, outlined in section 7.0, is implemented to mitigate the potential adverse effects of works occurring within proximity to the retained trees. These measures will ensure the successful retention of these trees and maintain their long-term health and vitality.

## 7.0 Tree Protection Methodology

The following recommendations are considered appropriate to mitigate the potential adverse effects of the proposal on the protected and non-protected trees to be retained and are deemed appropriate conditions of consent for the protected trees.

- 7.1. A suitably experienced, council-approved arborist ('nominated arborist') shall be employed by the consent holder, at the consent holder's expense, to monitor, supervise and direct all works within the drip line or in the vicinity of those protected trees to be retained, for the duration of the works.
- 7.2. Before any site works, including demolition works, commence, a pre-commencement site meeting shall be held so that the nominated arborist can explain the tree protection measures that pertain to the retained vegetation to all contractors or sub-contractors who will be working on-site within the root zone of, or adjacent to, any trees implicated by the project. Before this meeting, the design and construction methodology of the bridging system for Tree 77 shall be approved by the nominated arborist.
- 7.3. The Urban Forest Specialist for the area should be invited to this meeting. The Consent Holder shall give the Community Facilities Arborist at least five working days' notice of the time and date of the meeting. The minutes of this meeting, including the names of attendees, shall be forwarded to the Council Compliance Officer as soon as practicable.
- 7.4. A copy of this report and the Conditions of Consent shall be held on-site at all times.
- 7.5. A fundamental requirement for protecting the retained trees will be continued and documented monitoring of conditions during construction. The nominated arborist shall maintain a log of visits to the site and the work undertaken during those visits. A copy of this log shall be available to the Council Compliance Officer if requested.
- 7.6. Qualified arborists shall carry out all tree pruning and removals using accepted arboricultural standards and practice. Only Auckland Council health and safety-approved arborists shall undertake the pruning and removal of street trees.
- 7.7. Any demolition, including the removal of hard surfaces or excavation works within the root zone of any tree to be retained, shall be undertaken under the supervision of the consent holder's nominated arborist.
- 7.8. Any reinstatement of grass berms or construction of garden beds within the protected root zone of the trees shall ensure that the ground is not compacted and only good quality topsoil is installed.
- 7.9. All roots encountered during excavations that require severance shall be cleanly cut back to the excavation face using a handsaw or secateurs by the consent holder's nominated

- arborist. Roots shall be permitted to be severed if, in the opinion of the consent holder's nominated arborist, it will not adversely impact the long-term health or stability of the tree.
- 7.10. All exposed roots and root ends shall be covered to prevent them from drying out by a covering of Hessian (or acceptable alternative) that is to be kept damp until the excavated area can be backfilled. Any exposed roots that are likely to come into contact with wet concrete shall be covered with a permanent barrier, e.g. polythene to protect them from this occurring.
- 7.11. Temporary protective fencing to protect the trees to be retained shall be installed prior to any site works, including demolition, commence on site. The purpose of the temporary protective fencing is to provide an area around the retained trees that will facilitate their successful retention during the construction process. The exact extent and location of the temporary protective fencing shall be finalised on site before works begin, by the consent holder's nominated arborist. Although temporary, the fence shall be constructed so that it is not easily moved. Signage (minimum size 600mm x 450mm) shall be attached to the fence stating that it is a tree protection area and there shall be no unauthorised entry.
- 7.12. The area within the temporary protective fencing is to be considered a total exclusion zone as follows:
  - No storage of diesel, cement, building materials, site huts, spoil etc. within the delineated area.
  - No spillages of substances likely to be detrimental to tree health within seepage distance of the delineated area.
  - No alteration to the dimensions of the delineated area without the prior approval
    of the nominated arborist.
  - No access into or works within the delineated area without the prior approval of the nominated arborist.
- 7.13. The consent holder is responsible for maintaining the condition of the temporary protective fencing. The condition, repair and location of the temporary protective fencing shall be regularly inspected as part of the routine tree-monitoring programme.
- 7.14. The nominated arborist shall undertake all remedial pruning works necessary, including the pruning of tree roots uncovered during excavations, in accordance with documented arboricultural standards.
- 7.15. During the construction process, the consent holder's arborist may make recommendations on the installation of irrigation systems, mulch or remedial pruning works if they are required to improve the health of the trees.

#### 8.0 Conclusion

- 8.1. This proposal will require work within the root zone, pruning and removal of protected trees and non-protected trees as part of the Carrington Road upgrade construction.
- 8.2. A comprehensive set of tree protection measures has been prescribed in the Tree Protection Methodology in Section 7 of this report to minimise the effect of the proposed works upon the trees that are to remain.
- 8.3. Replacement planting will mitigate the removal of 32 protected trees.

- 8.4. I consider that, with careful management, the effect on the trees identified for retention should be minor and short-term in nature, subject to the tree protection measures as detailed within this report being followed and appropriate construction methodologies being implemented.
- 8.5. From an arboricultural perspective, I can support this application if the mitigation defined in Section 7.0 and recommendations as specified in Section 10.0 (Tree Protection Methodology) are adhered to.

For Arbor Connect Ltd

Stuart Barton

Principal Consultant Arborist Cert. in Arboriculture, Dip. Hort., Dip.P&G. Tech., N.C.H. (Amenity)

# APPENDIX A TREE SURVEY DATA

Tree / Group Number	Species	Height (m)	Canopy Spread (m)	Trunk Girth @ 1.4 (m)	Trunk Diameter @ 1.4 (m)	Trunk Diameter @ Base (m)	TPZ (m)	SRZ (m)	Condition	Location	Resource Consent Required	In proposed widening	Remove / Retain	Comments
1	Tītoki	5.0	7.0	0.7	0.22	0.26	2.6	1.9	Good	O/S 28 Carrington Rd on Sutherland Rd	Yes – Street tree	No	Remove	Within the footprint of the cycleway exit ramp. Under planted with shrubs.
2	Pōhutukawa	13.6	26.0	8.9 (5 Stems estimate)	1.34	1.30 (Estimate)	16.1	3.7	Good	5 - 27 Sutherland Rd	None - Private	No	Retain	WWRZ.
3	Pōhutukawa	11.2	19.0	12.4 (15 stems Estimate)	1.07	1.80 (Estimate)	12.8	4.2	Good	5 - 27 Sutherland Rd	None - Private	No	Retain	WWRZ. Approximate 3 x branches between 120 - 150 mm require removal.
4	Pōhutukawa	13.0	20.0	6.6 (7 stems Estimate)	0.81	1.50 (Estimate)	9.7	3.9	Fair	5 - 27 Sutherland Rd	None - Private	No	Retain	WWRZ. Minor pruning.
5	Pōhutukawa	13.0	15.0	3.1 (4 stems Estimate)	0.53	1.00 (Estimate)	6.4	3.3	Poor	5 - 27 Sutherland Rd	None - Private	No	Retain	WWRZ.
6	Pōhutukawa	13.0	20.0	13.0 (12 stems Estimate)	1.22	1.80 (Estimate)	14.6	4.2	Fair	5 - 27 Sutherland Rd	None - Private	No	Retain	WWRZ. Minor pruning.
7	Pōhutukawa	12.0	20.0	5.3 (5 stems Estimate)	0.76	0.80 (Estimate)	9.1	3.0	Fair	5 - 27 Sutherland Rd	None - Private	No	Retain	WWRZ.
8	Pōhutukawa	10.5	1.0	4.4 (4 stems Estimate)	0.72	0.80 (Estimate)	8.6	3.0	Fair	5 - 27 Sutherland Rd	None - Private	No	Retain	WWRZ.
9	Pōhutukawa	10.6	20.0	8.2 (9 stems Estimate)	0.90	1.80 (Estimate)	10.8	4.2	Fair	5 - 27 Sutherland Rd	None - Private	No	Retain	WWRZ. Minor pruning.
10	Liquidambar	12.8	14.0	2.7 (2 stems Estimate)	0.62	0.70 (Estimate)	7.4	2.8	Fair	50 Carrington Rd	None - Private	No	Retain	WWRZ.
11	Jacaranda	5.0	7.0	1.5 (2 stems Estimate)	0.34	0.30 (Estimate)	4.1	2.0	Poor	50 Carrington Rd	None - Private	No	Retain	WWRZ.
12	Liquidambar	9.4	8.5	1.2 (Estimate)	0.38	0.51 (Estimate)	4.6	2.5	Good	50 Carrington Rd	None - Private	No	Retain	WWRZ. Minor pruning.
13	Tītoki	5.0	8.0	0.8	0.25	0.3	3.1	2.0	Good	50 Carrington Rd	None - Private	No	Retain	WWRZ. Minor pruning.
14 (Grp)	Privet hedge	4.0	0.0	0.0	0.00	0	0.0	0.0	Good	56 Carrington Rd	None - Private	No	Retain	WWRZ. Extends approximately 1.8 m over the footpath Trunks are just inside property.

Tree / Group Number	Species	Height (m)	Canopy Spread (m)	Trunk Girth @ 1.4 (m)	Trunk Diameter @ 1.4 (m)	Trunk Diameter @ Base (m)	TPZ (m)	SRZ (m)	Condition	Location	Resource Consent Required	In proposed widening	Remove / Retain	Comments
15	Water gum	6.0	5.2	0.9	0.27	0.31	3.2	2.0	Poor	O/S 56 Carrington Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
16	Pūriri	3.5	2.2	0.2	0.07	0.1	0.8	1.5	Fair	O/S 56 Carrington Rd on Segar Ave	Permitted - Street tree	No	Remove	Removal is required for the swale. Unstable.
17	Pūriri	3.3	2.6	0.3	0.09	0.15	1.1	1.5	Poor	O/S 56 Carrington Rd on Segar Ave	Permitted - Street tree	No	Remove	Removal is required for the swale. Unstable.
18	Water gum	6.8	6.8	2.7 (6 stems)	0.35	0.4	4.2	2.3	Fair	O/S 56 Carrington Rd on Segar Ave	Yes - Street tree	No	Remove	Removal is required for the swale. Close to kerb
19	Water gum	6.0	6.8	1.1 (2 stems)	0.26	0.29	3.1	2.0	Good	O/S 56 Carrington Rd on Segar Ave	Yes - Street tree	No	Remove	Removal is required for the swale. Close to kerb
20	Water gum	6.4	6.6	2.2 (4 stems)	0.35	0.38	4.2	2.2	Good	O/S 56 Carrington Rd on Segar Ave	Yes - Street tree	No	Remove	Removal is required for the swale. Close to kerb
21	Pōhutukawa	9.8	7.0	1.4 (Estimate)	0.45	0.48 (Estimate)	5.4	2.4	Fair	O/S 56 Carrington Rd on Segar Ave	Private	No	Retain	Remote from work.
22	Pōhutukawa	10.8	9.2	2.1 (3 stems)	0.40	0.41	4.8	2.3	Good	O/S 56 Carrington Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
23	Water gum	5.3	5.0	1.5 (4 stems)	0.25	0.29	3.0	2.0	Good	O/S 56 Carrington Rd on Segar Ave	Yes - Street tree	No	Remove	Removal is required for the swale. Close to kerb.
24	Pōhutukawa	9.2	7.2	2.2 (3 stems)	0.41	0.41	4.9	2.3	Fair	O/S 56 Carrington Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
25	Water gum	4.2	6.4	0.9 (2 stems)	0.20	0.26	2.4	1.9	Good	O/S 56 Carrington Rd on Segar Ave	Yes - Street tree	No	Remove	Within the stormwater line footprint.

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26	Pūriri	3.0	1.6	0.2	0.05	0.1	0.6	1.5	Poor	O/S 56 Carrington Rd on Segar Ave	Permitted - Street tree	No	Remove	Work outside of the protected root zone. Unstable.
27	Pūriri	3.2	1.7	0.2	0.06	0.09	0.7	1.5	Poor	O/S 56 Carrington Rd on Segar Ave	Permitted - Street tree	No	Remove	Work outside of the protected root zone. Unstable.
28	Pōhutukawa	9.4	7.2	1.2	0.38	0.5	4.6	2.5	Fair	O/S 56 Carrington Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
29	Taiaire	3.2	0.8	0.1	0.03	0.05	0.4	0.9	Poor	O/S 56 Carrington Rd on Segar Ave	Permitted - Street tree	No	Remove	Removal is required for the swale. Unstable.
30	Pōhutukawa	12.0	8.8	3.2 (4 stems)	0.51	0.54	6.1	2.6	Good	O/S 56 Carrington Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
31	Pūriri	9.2	6.2	2.3 (5 stems)	0.34	0.45	4.1	2.4	Fair	O/S 56 Carrington Rd on Segar Ave	None - Street tree	No	Retain	Remote from work. Unstable
32	Pūriri	8.6	7.8	2.2 (5 stems)	0.33	0.49	4.0	2.5	Fair	O/S 56 Carrington Rd on Segar Ave	None - Street tree	No	Retain	Remote from work. Poor structure
33	Pūriri	2.9	1.8	0.2	0.06	0.1	0.7	1.3	Poor	O/S 56 Carrington Rd on Segar Ave	Permitted - Street tree	No	Remove	Removal is required for the swale. Unstable.
34	Pōhutukawa	10.6	7.4	1.5	0.48	0.45	5.7	2.4	Good	O/S 56 Carrington Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
35	Nīkau	4.6	2.8	0.6 (Estimate)	0.20	0.2 (Estimate)	2.4	1.7	Good	O/S 5 - 27 Sutherland Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
36	Karo	4.6	5.2	0.3	0.09	0.12	1.0	1.4	Fair	O/S 5 - 27 Sutherland Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.

Tree / Group Number	Species	Height (m)	Canopy Spread (m)	Trunk Girth @ 1.4 (m)	Trunk Diameter @ 1.4 (m)	Trunk Diameter @ Base (m)	TPZ (m)	SRZ (m)	Condition	Location	Resource Consent Required	In proposed widening	Remove / Retain	Comments
37	Pūriri	4.6	3.4	0.5	0.17	0.27	2.0	1.9	Fair	O/S 5 - 27 Sutherland Rd on Segar Ave	Yes - Street tree	No	Remove	Removal is required for the swale. On a lean but stable
38	Pōhutukawa	8.2	7.6	1.8 (2 stems)	0.43	0.43	5.2	2.3	Good	O/S 5 - 27 Sutherland Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
39	Karaka	1.5	1.4	0.1	0.04	0.07	0.5	1.1	Poor	O/S 5 - 27 Sutherland Rd on Segar Ave	Permitted - Street tree	No	Remove	Removal is required for the swale. Unstable
40	Pōhutukawa	9.2	6.0	2.3 (3 stems)	0.43	0.39	5.2	2.2	Poor	O/S 5 - 27 Sutherland Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
41	Pōhutukawa	9.0	7.8	2.5 (3 stems)	0.46	0.55	5.5	2.6	Poor	O/S 5 - 27 Sutherland Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
42	Water gum	6.4	6.2	0.9	0.28	0.32	3.3	2.1	Fair	O/S 5 - 27 Sutherland Rd on Segar Ave	Yes - Street tree	No	Remove	Removal is required for the swale.
43	Water gum	6.8	8.8	1.77 (2 stems)	0.40	0.42	4.8	2.3	Good	O/S 5 - 27 Sutherland Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
44	Pūriri	3.2	1.2	0.2	0.05	0.09	0.6	1.2	Dead	O/S 18 Rawalpindi St on Segar Ave	None - Street tree	No	Retain	Remote from work.
45 (Grp)	Mixed dominated by acmena with shrub species	9.0	0.0	0.0	0.00	0	0.0	0.0	Fair	56 Carrington Rd	None - Street tree	No	Retain	Remote from work.
46	Water gum	8.0	12.0	2.9 (3 stems)	0.54	0.48	6.5	2.4	Fair	O/S 78 Carrington Rd on Segar Ave	None - Street tree	No	Retain	Remote from work.
47	Albizia	8.0	17.0	1.7 (Estimate)	0.55	0.62 (Estimate)	6.6	2.7	Fair	82 Carrington Rd	None - Private	No	Retain	WWRZ. Base of trunk against boundary wall
48	Albizia	8.0	11.0	0.0	0.00	0	6.6 (Estimate)	2.7 (Estimate)	Fair	82 Carrington Rd	None - Private	No	Retain	WWRZ. Base of trunk against boundary wall.

Tree / Group Number	Species	Height (m)	Canopy Spread (m)	Trunk Girth @ 1.4 (m)	Trunk Diameter @ 1.4 (m)	Trunk Diameter @ Base (m)	TPZ (m)	SRZ (m)	Condition	Location	Resource Consent Required	In proposed widening	Remove / Retain	Comments
49	Rubber plant	6.2	6.0	0.0	0.00	0.7 (Estimate)	6.8 (Estimate)	2.8 (Estimate)	Good	84 Carrington Rd	None - Private	No	Retain	WWRZ. Multi stem from base against boundary wall.
50	Taiwan cherry	4.2	1.8	0.3 (@0.6)	0.10	0.16	1.2	1.5	Fair	O/S 86 Carrington Rd	None - Street tree	No	Retain	Pest plant. Rootstock suckering.
51	Pūriri	3.4	2.8	0.3	0.10	0.17	1.1	1.6	Good	O/S 86 Carrington Rd on Tasman Ave	None - Street tree	No	Retain	
52 (Grp)	Tree privet	3.0	32.0	0.0	0.00	0	0.0	0.0	Good	98 Carrington Rd	None - Private	No	Retain	Hedge. Overhangs footpath by 1.0 m
53	Melia	6.2	16.0	3.0 (2 stems)	0.68	0.73	8.2	2.9	Fair	O/S 98 Carrington Rd on Fontenoy St	None - Street tree	No	Retain	
54	Melia	6.0	11.0	1.4	0.43	0.47	5.2	2.4	Good	O/S 100 Carrington Rd on Fontenoy St	Permitted - Street tree	No	Retain	WWRZ.
55	Brazilian coral tree	8.2	11.0	2.5 (2 stems)	0.56	0.8	6.7	3.0	Good	102 Carrington Rd	None - Private	No	Retain	WWRZ. Trunk against wall
56	Totem	8.0	1.1	0.4	0.11	0.2	1.4	1.7	Fair	104A Carrington Rd	None - Private	No	Retain	
57	Water gum	6.8	8.0	1.2	0.37	0.42	4.4	2.3	Fair	O/S 112 Carrington Rd on Fifth Ave	None - Street tree	No	Retain	
58	Flowering cherry	5.4	5.2	0.5	0.16	0.27	1.9	1.9	Fair	O/S 4-8 Seadview Rd on Carrington Rd (Gladstone School)	Yes - Street tree	No	Remove	
59	Tōtara	9.6	7.0	0.0	0.00	0	6.5 (Estimated)	2.7 (Estimated)	Good	152 Carrington Rd	None - Private	No	Retain	WWRZ. Large root heading the under footpath. Trunk unsighted
60	Champhor laurel	7.6	8.0	1.2	0.38	0.45	4.6	2.4	Good	170 Carrington Rd	None - Private	No	Retain	WWRZ.

Tree / Group Number	Species	Height (m)	Canopy Spread (m)	Trunk Girth @ 1.4 (m)	Trunk Diameter @ 1.4 (m)	Trunk Diameter @ Base (m)	TPZ (m)	SRZ (m)	Condition	Location	Resource Consent Required	In proposed widening	Remove / Retain	Comments
61	Flowering cherry "Awanui"	4.0	6.8	1.0 (2 stems)	0.23	0.27	2.8	1.9	Poor	O/S 172 Carrington Rd	Yes - Street tree	No	Remove	Removal required for new intersection layout.
62 (Grp)	Mixed weed species hedge	4.5	23.0	0.0	0.00	0	0.0	0.0	Fair	172-174 Carrington Rd	None - Private	No	Retain	WWRZ. Overhangs footpath by 0.5 m
63	Japanese cedar	11.0	8.0	1.3	0.41	0.6	5.0	2.7	Good	204 Carrington Rd	None - Private	No	Retain	WWRZ. Minor pruning
64	Tītoki	4.3	6.2	0.7	0.22	0.26	2.7	1.9	Good	O/S 210 Carrington Rd on Counsel Tce	None - Street tree	No	Retain	
65	Ash	9.6	10.0	1.5	0.48	0.6	5.7	2.7	Good	210 Carrington Rd	None - Private	No	Retain	WWRZ.
66	Tītoki	2.3	0.8	0.1	0.03	0.06	0.3	1.0	Poor	O/S 214 Carrington Rd	Permitted - Street tree	No	Remove	Unstable
67	Pōhutukawa	9.0	14.0	4.9 (5 stems)	0.73	1.0	8.8	3.3	Poor	895-901 New North Rd	None - Private	No	Retain	WWRZ. Pruning for footbridge. Lacks vigour Approximately 3 branches between 120 - 150 mm plus several minor branches
68	Ash	15.9	20.0	2.7 (Estimate)	0.86	1.0 (Estimate)	10.3	3.3	Good	911 New North Rd	None - Private	No	Retain	Inside cafe courtyard
69	Ficus hilli	5.2	10.0	2.2 (2 stems)	0.50	0.45 (Estimate)	6.0	2.4	Fair	911 New North Rd	None - Private	No	Retain	WWRZ. Minor prune
70	Pōhutukawa	12.0	20.0	6.6 (4 stems)	1.06	1.4 (Estimate)	12.7	3.8	Good	201 Carrington Rd	None - Private	No	Retain	WWRZ. Minor prune
71	Pōhutukawa	11.0	20.0	6.6 (3 stems)	1.22	1.3 (Estimate)	14.6	3.7	Fair	202 Carrington Rd	None - Private	No	Retain	WWRZ.
72 (Grp)	Tarata and cherry	8.6	6.0	0.0	0.00	0	0.0	0.0	Fair	171 Carrington Rd	None - Private	No	Retain	WWRZ. Minor prune
73	Tītoki	4.6	7.2	0.9	0.27	0.34	3.2	2.1	Fair	O/S 131 Carrington Rd on Woodward Rd	Permitted - Street tree	No	Retain	Minor prune
74 (Grp)	Tecoma hedge	3.0	33.0	0.0	0.00	0	0.0	0.0	Good	131 Carrington Rd	None - Private	No	Retain	WWRZ at the northeastern end. Trimmed to footpath edge

Tree / Group Number	Species	Height (m)	Canopy Spread (m)	Trunk Girth @ 1.4 (m)	Trunk Diameter @ 1.4 (m)	Trunk Diameter @ Base (m)	TPZ (m)	SRZ (m)	Condition	Location	Resource Consent Required	In proposed widening	Remove / Retain	Comments	
75	Washingtonia	7.5	3.8	1.2 (Estimate)	0.38	0.45 (Estimate)	4.6	0.0	Good	O/S 131 Carrington Rd	None - Street tree	No	Retain		
76	Cooks pine	17.0	6.0	1.7 (Estimate)	0.55	0.6 (Estimate)	6.6	0.0	Good	131 Carrington Rd	None - Private	No	Retain		
77	Pōhutukawa	11.2	16.4	9.4 (8 stems)	1.10	1.69	13.2	4.1	Good	O/S 131 Carrington Rd	Yes - Street tree	No	Retain	WWRZ. Significant surface roots to deal with. Approximate 4 x branches between 100 and 120 mm	
78	Flowering cherry	3.2	3.8	0.0	0.00	0.14	2.0 (Estimated)	1.4	Fair	O/S 131 Carrington Rd	Permitted - Street tree	No	Remove	No stems over 250 mm.	
79	Flowering cherry	3.5	3.0	0.8 (2 stems)	0.17	0.44	2.0	2.3	Poor	O/S 131 Carrington Rd	Yes - Street tree	No	Remove	Limited life.	
80	Flowering cherry	3.0	2.0	0.0	0.00	0.16	1.8 (Estimated)	1.5	Poor	O/S 131 Carrington Rd	Permitted - Street tree	No	Remove	No stems over 250 mm.	
81	Flowering cherry	4.2	7.4	1.3 (3 stems)	0.25	0.26	3.0	1.9	Fair	O/S 131 Carrington Rd	Yes - Street tree	No	Remove		
82	Flowering cherry	7.4	11.2	1.7 (4 stems)	0.28	0.32	3.4	2.1	Fair	O/S 139 Carrington Rd	Yes - Street tree	No	Remove		
83	Acmena	8.2	12.8	5.5 (7 stems)	0.68	0.85	8.2	3.1	Fair	O/S 139 Carrington Rd	Permitted - Street tree	No	Remove	Pest plant.	
84	Acmena	9.8	13.8	5.2 (4 stems)	0.86	1.05	10.3	3.4	Poor	O/S 139 Carrington Rd	Permitted - Street tree	No	Remove	Pest plant. Significant dead stems.	
85	Variegated Kohuhu	6.5	7.6	1.0 (2 stems)	0.27	0.34	3.2	2.1	Poor	O/S 139 Carrington Rd	Yes - Street tree I334	No	Remove	Limited life.	
86	Kāpuka (Griselinia)	4.8	11.6	2.2 (3 stems)	0.41	0.59	4.9	2.7	Fair	O/S 139 Carrington Rd	Yes - Street tree	No	Remove		
87	Variegated Kohuhu	6.5	7.6	1.1	0.34	0.4	4.1	2.3	Fair	O/S 139 Carrington Rd	Yes - Street tree	No	Remove		
88	English oak	9.4	24.0	7.1 (5 stems)	1.06	1.4 (Estimate)	12.7	0.0	Fair	139 Carrington Rd	None - Private	No	Retain	WWRZ.	

Tree / Group Number	Species	Height (m)	Canopy Spread (m)	Trunk Girth @ 1.4 (m)	Trunk Diameter @ 1.4 (m)	Trunk Diameter @ Base (m)	TPZ (m)	SRZ (m)	Condition	Location	Resource Consent Required	In proposed widening	Remove / Retain	Comments
89	English oak	10.0	18.0	1.7 (Estimate)	0.55	0.65 (Estimate)	6.6	0.0	Good	131 Carrington Rd	None - Private	No	Retain	WWRZ. Minor prune
90	Tarata	7.0	6.9	0.8	0.24	0.29	2.9	2.0	Fair	131 Carrington Rd	None - Private	Yes	Remove	In new road designation. On a lean,
91	Pōhutukawa	9.2	24.0	5.1 (13 stems Estimate)	1.45	3	17.4	5.2	Good	131 Carrington Rd	None - Private	No	Retain	WWRZ. Two branches over footpath require removal. Approximately 180 and 370 dia.
92	Cabbage tree	7.8	3.0	1.2	0.38	0.35	4.6	2.1	Good	O/S 131 Carrington Rd	Yes - Street tree	No	Remove	Within hedge (Grp 93). Trunk on boundary.
93 (Grp)	Mixed hedge	1.8	0.0	0.0	0.00	0	0.0	0.0	Good	131 Carrington Rd	None - Private	Yes	Remove	Gaps in the hedge not shown on the Tree Location Plan.
94	Gordonia	4.8	5.0	2.5 (7 stems)	0.31	0.43	3.7	2.3	Good	131 Carrington Rd	None - Private	Yes	Remove	
95	Liquidambar	15.2	13.0	2.2	0.68	0.76	8.2	2.9	Fair	131 Carrington Rd	None - 1334	Yes	Remove	Poor structure.
96 (Grp)	Mixed hedge	5.0	24.0	0.0	0.00	0	0.0	0.0	Good	131 Carrington Rd	None - Private	Yes	Remove	
97	Queensland kauri	12.2	5.0	1.0	0.31	0.45	3.7	2.4	Fair	131 Carrington Rd	None - Private	Yes	Remove	
98	Queensland kauri	12.0	4.2	1.1	0.36	0.42	4.3	2.3	Fair	131 Carrington Rd	None - Private	Yes	Remove	
99	Pōhutukawa	7.2	6.7	2.1 (4 stems)	0.34	0.61	4.1	2.7	Fair	131 Carrington Rd	None - Private	Yes	Remove	Significant prune recently.
100	Pōhutukawa	7.0	7.6	2.0 (4 stems)	0.32	0.81	3.8	3.0	Fair	131 Carrington Rd	None - Private	Yes	Remove	Significant prune recently.
101	Holm oak	3.0	1.9	0.1	0.04	0.04	0.4	0.9	Poor	O/S 131 Carrington Rd	Permitted - Street tree	No	Remove	Unstable.
102	Flowering cherry	4.6	7.4	1.0	0.32	0.37	3.8	2.2	Fair	O/S 131 Carrington Rd	Yes - Street tree	No	Remove	

Tree / Group Number	Species	Height (m)	Canopy Spread (m)	Trunk Girth @ 1.4 (m)	Trunk Diameter @ 1.4 (m)	Trunk Diameter @ Base (m)	TPZ (m)	SRZ (m)	Condition	Location	Resource Consent Required	In proposed widening	Remove / Retain	Comments
103	Flowering cherry	5.1	6.0	1.0	0.33	0.38	4.0	2.2	Poor	O/S 131 Carrington Rd	Yes - Street tree	No	Remove	
104	Flowering cherry	5.2	5.8	1.1	0.34	0.38	4.1	2.2	Fair	O/S 131 Carrington Rd	Yes - Street tree	No	Remove	
131	Cedar	12.0	16.0	1.8	0.57	0.72	6.9	2.9	Dead	131 Carrington Rd	None - Private	Yes	Remove	
132	Karaka	7.0	6.0	0.6	0.19	0.25	2.3	1.8	Poor	131 Carrington Rd	None - Private	Yes	Remove	
105	Flowering cherry	4.8	4.8	1.0	0.30	0.37	3.6	2.2	Fair	O/S 99 Carrington Rd	Yes - Street tree	No	Remove	
106	Flowering cherry "Awanui"	4.4	6.4	0.7	0.21	0.23	2.5	1.8	Fair	O/S 99 Carrington Rd	Yes - Street tree	No	Remove	
107	Flowering cherry	4.2	4.0	0.5	0.15	0.21	1.8	1.7	Poor	O/S 99 Carrington Rd	Yes - Street tree	No	Remove	
108	Redwood	2.4	1.6	0.1	0.03	0.04	0.3	0.9	Fair	O/S 99 Carrington Rd	Permitted - Street tree	No	Remove	Potential transplant.
109	Flowering cherry	4.8	4.8	0.6	0.18	0.24	2.1	1.8	Fair	O/S 1 Carrington Rd	Yes - Street tree	No	Remove	
110	Flowering cherry	4.8	5.0	0.7	0.23	0.27	2.8	1.9	Poor	O/S 1 Carrington Rd	Yes - Street tree	No	Remove	
111	Flowering cherry	4.1	5.2	0.6	0.19	0.23	2.3	1.8	Poor	O/S 1 Carrington Rd	Yes - Street tree	No	Remove	
112	Flowering cherry	3.7	2.2	0.3	0.10	0.12	1.1	1.4	Poor	O/S 1 Carrington Rd	Permitted - Street tree	No	Remove	Unstable
113	Flowering cherry	4.0	6.2	1.3 (3 stems)	0.24	0.26	2.9	1.9	Fair	O/S 1 Carrington Rd	Yes - Street tree	No	Remove	
114	Rewarewa	3.0	1.2	0.1	0.04	0.08	0.5	1.1	Good	O/S 1 Carrington Rd	Permitted - Street tree	No	Remove	Newly planted.
115	Flowering cherry	4.4	7.8	1.4 (3 stems)	0.26	0.36	3.1	2.2	Fair	O/S 1 Carrington Rd	Yes - Street tree	No	Remove	

Tree / Group Number	Species	Height (m)	Canopy Spread (m)	Trunk Girth @ 1.4 (m)	Trunk Diameter @ 1.4 (m)	Trunk Diameter @ Base (m)	TPZ (m)	SRZ (m)	Condition	Location	Resource Consent Required	In proposed widening	Remove / Retain	Comments
116	Flowering cherry	4.6	6.0	0.9 (2 stems)	0.20	0.23	2.4	1.8	Fair	O/S 1 Carrington Rd	Yes - Street tree	No	Remove	
117	Flowering cherry	5.0	9.6	0.5	0.17	0.21	2.1	1.7	Fair	O/S 1 Carrington Rd	Yes - Street tree	No	Remove	
118	Ginkgo	11.8	9.0	2.9 (3 stems)	0.54	0.68	6.5	2.8	Fair	1 Carrignton Rd	None - Private	Yes	Remove	Poor structure possibly has weight of one stem on wall.
119	Flowering cherry	3.3	5.2	0.4	0.13	0.18	1.5	1.6	Poor	O/S 1 Carrington Rd	Permitted - Street tree	No	Remove	
120	Flowering cherry	4.2	6.8	1.0 (2 stems)	0.23	0.22	2.8	1.8	Fair	O/S 1 Carrington Rd	Yes - Street tree	No	Remove	
121	Camellia	40.0	9.8	0.0	0.00	0.5	0.0	2.5	Good	1 Carrington Rd	None - Private	Yes	Remove	
122	Pūriri	13.4	13.0	3.5	1.11	1.25	13.4	3.6	Fair	1 Carrington Rd	None - Private	Yes	Retain	WWRZ.
123	Karaka	8.8	12.0	2.9	0.92	0.95	11.1	3.2	Good	1 Carrington Rd	None - Private	Yes	Retain	WWRZ.
124	Windmill palm	8.9	2.5	0.5	0.16	0.21	1.9	1.7	Good	1 Carrington Rd	None - Private	Yes	Remove	Pest plant.
125	Camellia	5.8	12.0	2.4 (5 stems)	0.35	0.4	4.2	2.3	Good	1 Carrington Rd	None - Private	No	Remove	
126	Pūriri	12.6	21.0	3.7 @ 0.6	1.01	1.25	12.1	3.6	Good	1 Carrington Rd	None - Private	Yes	Retain	WWRZ.
127	Sky flower	5.2	10.0	1.8 (4 stems)	0.29	0.39	3.5	2.2	Poor	1 Carrington Rd	I334 - Private	Yes	Remove	
128	Ginkgo	10.4	11.0	1.1	0.35	0.51	4.2	2.5	Good	1 Carrington Rd	None - Private	No	Retain	WWRZ.
129	Cypress "Swane's Golden"	7.8	1.6	0.8	0.25	0.31	3.1	2.0	Fair	1 Carrington Rd	I334 - Private	No	Retain	
130	Flowering cherry	5.0	6.2	0.5	0.14	0.22	1.7	1.8	Fair	O/S 1 Carrington Rd	Yes - Street tree	No	Remove	

### **Table Definitions**

Tree / Group Number

This is a unique number for the tree and functions as a reference point on site plans.

**Tree Species** 

The common name of the tree is given.

Height

A measured height of the tree in metres.

**Canopy Spread:** 

Calculated as the greatest radial spread of the canopy from the trunk x 2.

Trunk Girth @ 1.4

The measured girth of the trunk in metres taken at 1.4m from ground level. For multiple stems, it is the sum of

each stem girth.

Trunk Diameter @ 1.4

The measured diameter of the trunk in metres taken at 1.4m from ground level. For multiple stems, it is as

calculated in the Australian Standard 4970 – 2009 Protection of trees on development sites.

Trunk Diameter @

base

The measured diameter of the trunk in metres taken at the base above the root flare.

Tree Protection Zone (TPZ):

The protected root zone as calculated in Australian Standard 4970 – 2009 Protection Of trees on Development sites as required by Auckland Council Tree Owner Approval.

Structural Root Zone

(SRZ)

Protected root zone required for stability if a major encroachment into the TPZ zone as calculated in Australian Standard 4970 – 2009 Protection Of trees on Development sites as required by Auckland Council Tree Owner

Approval.

**Condition:** Good - A healthy specimen with good vigour, form, long life expectancy and no significant defects.

Fair - Tree of average vigour and form. Minor defects may be present but not significant structural stability.

Poor - Tree with low vigour or poor form, significant defects and possible limited life expectancy.

Dead - Tree with no live foliage.

**Location:** The address the tree is located at or is outside of.

Resource Consent Required

An indication if the proposed works trigger the need for resource consent.

In Proposed Widening

Yes – the tree is within the proposed widening area of Carrington Road. No – the tree is outside of the proposed widening area of Carrington Road.

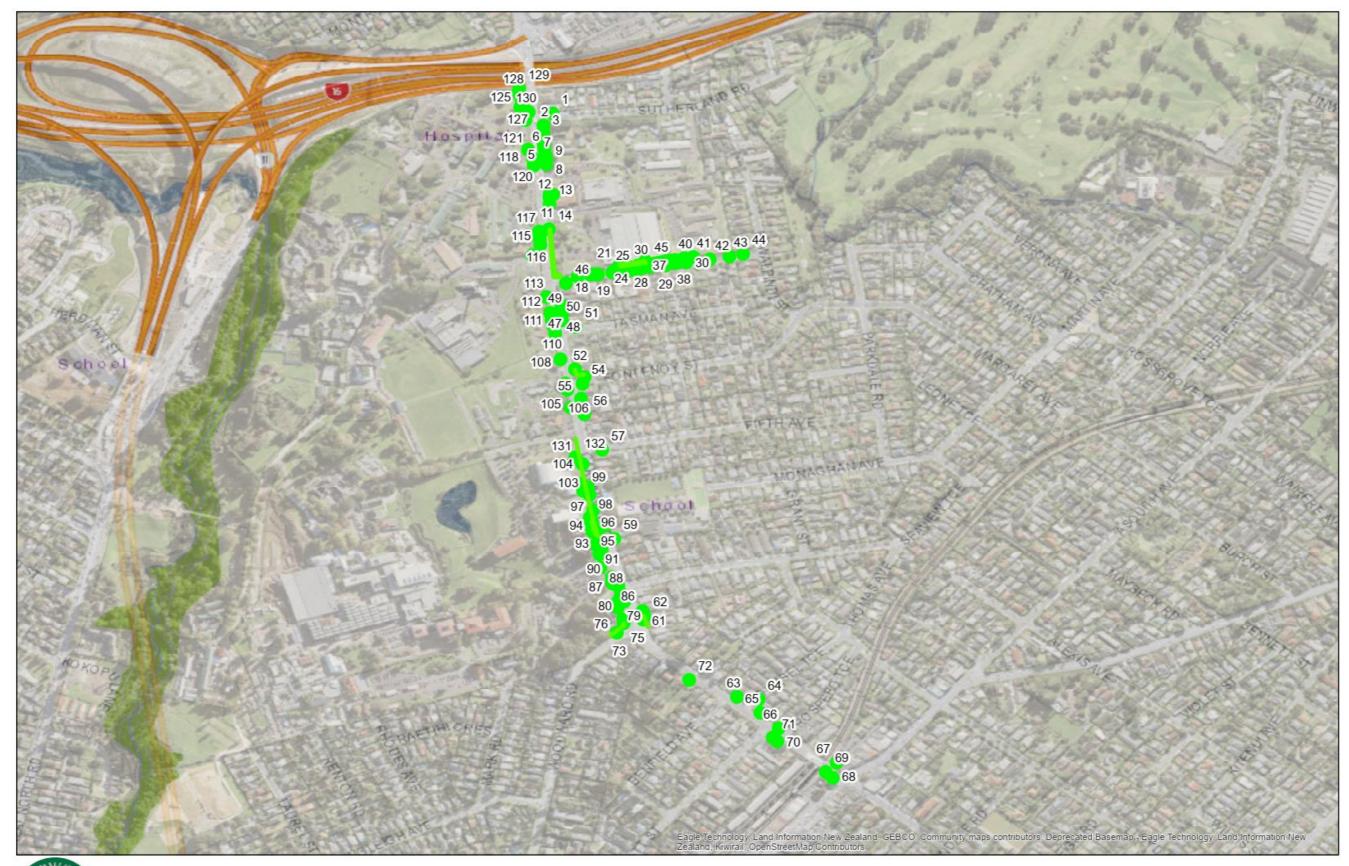
**Remove / Retain** Whether the proposal requires the removal or retention of the tree.

Comments

WWRZ - Works within the root zone

Minor pruning – branches less than 100 mm in diameter removed and less than 10 % of live foilage.

# APPENDIX B TREE LOCATION PLAN





Carrington Rd Upgrade Full Extent





Carrington Rd Upgrade 1 of 10





Carrington Rd Upgrade 2 of 10





Carrington Rd Upgrade 3 of 10





Carrington Rd Upgrade 4 of 10



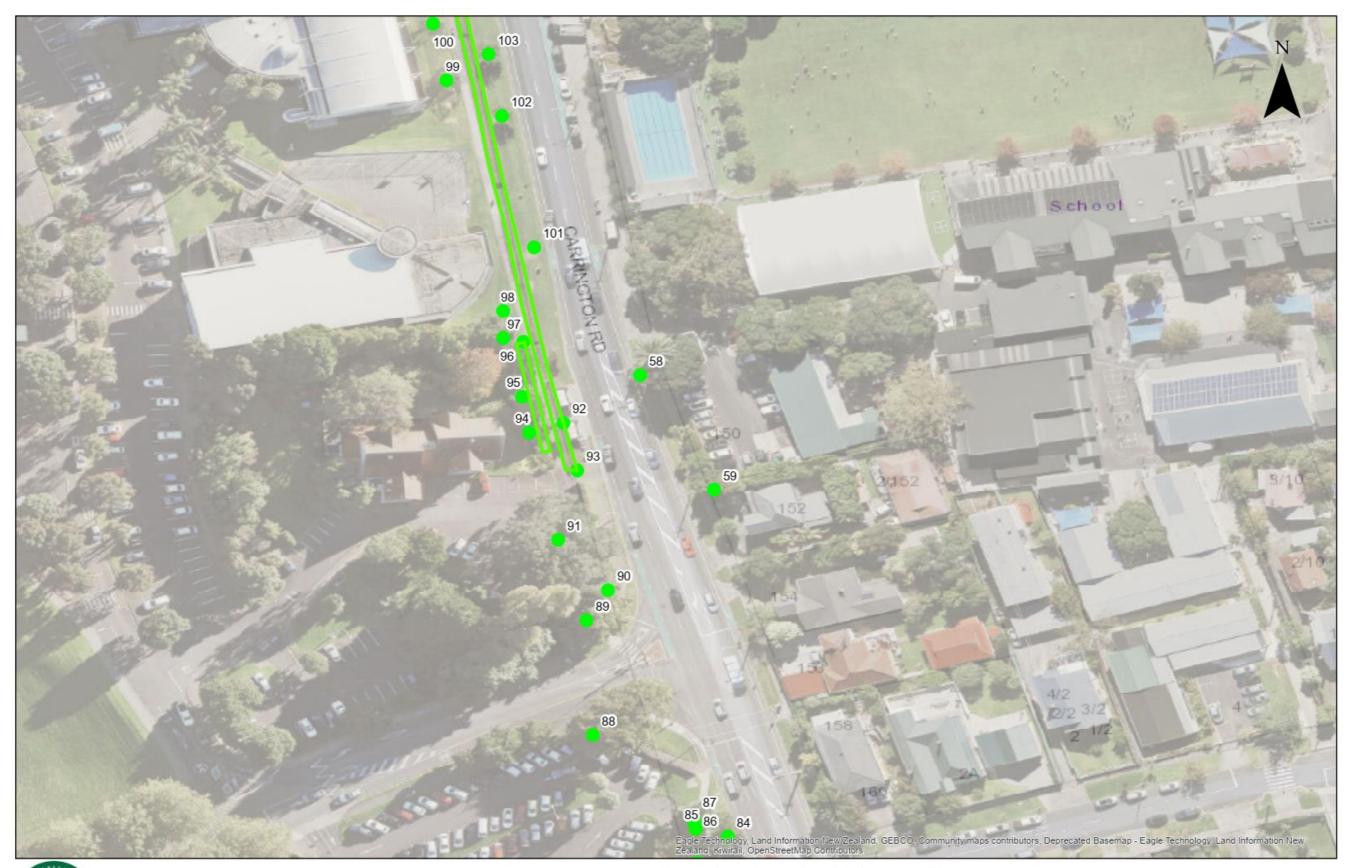


Carrington Rd Upgrade 5 of 10





Carrington Rd Upgrade 6 of 10





Carrington Rd Upgrade 7 of 10





Carrington Rd Upgrade 8 of 10





Carrington Rd Upgrade 9 of 10





Carrington Rd Upgrade 10 of 10

# APPENDIX C DOCUMENTATION LIST

Drawing	Title	Dated	Revision
3230635-CA- 0201 to 3230635-CA- 0212	Preliminary Design General Arrangement Plan, Carrington Road Improvements Project by Beca	10/12/24	Draft
	Point Chevalier No. 2 Watermain Project, Carrington Road by Watercare Services Ltd	12/12	1