

STORMWATER

Wetland Mix					
Total Area: 27,574m ²					
Māori / Common Name	Botanical Name	Size (L)	Spacing (m)	Mature height	%
Oioi	<i>Apodasmia similis</i>	1	1	1	5
Jointed Twigrush	<i>Baumea articulata</i>	1	1	1.5	10
Purei	<i>Carex secta</i>	1	1	1	12.5
Pukio	<i>Carex virgata</i>	1	1	0.8	12.5
Ti Kouka	<i>Cordyline australis</i>	1	1	10	10
Upokotahi sedge	<i>Cyperus ustulatus</i>	1	1	1	5
Sharp Spike Sedge	<i>Eriochorda acuta</i>	1	1	0.5	5
Whai	<i>Ficinia nodosa</i>	1	1	0.7	10
Baumea	<i>Machoeira rubiginosa</i>	1	1	1.8	10
Pakihī Rush	<i>Machoeira teretifolia</i>	1	1	1	10
Harekeke	<i>Phormium tenax</i>	1	1	2	10

Rangiora Mix					
Total Area: 11,190m ²					
Māori / Common Name	Botanical Name	Size (L)	Spacing (m)	Mature height	%
Oioi	<i>Apodasmia similis</i>	2	0.6	1	20
Coastal astella	<i>Astella banksii</i>	5	0.6	1	8
grassland sedge	<i>Carex breviculmis</i>	2	0.3	0.2	16
Glen Murray tussock	<i>Carex bursiflora</i>	2	0.5	0.6	16
Pukio	<i>Carex virgata</i>	2	0.5	1	16
Sand coprosma	<i>Coprosma acerosa</i>	2	0.8	0.3	16
Wharariki	<i>Phormium cookianum subsp. hookeri</i>	5	1	0.7	8

Sedge Mix					
Total Area: 3,636m ²					
Māori / Common Name	Botanical Name	Size (L)	Spacing (m)	Mature height	%
Purei	<i>Carex secta</i>	1	1	1	10
Pukio	<i>Carex virgata</i>	1	1	0.8	40
Ti Kouka	<i>Cordyline australis</i>	1	1	10	20
Wharariki	<i>Phormium cookianum</i>	1	1	0.7	30

ECOLOGY

Lizard Habitat Mix					
Total Area: 52,950m ²					
Māori / Common Name	Botanical Name	Size (L)	Spacing (m)	Mature height	%
Throughout					
Totara	<i>Fuchsia procumbens</i>	2	2	0.15	6
Pōhuehue	<i>Muehlenbeckia axillaris</i>	2	1	0.2	6
Pōhuehue	<i>Muehlenbeckia complexa</i>	2	1	0.3	6
Kahuka	<i>Parsonsia heterophylla</i>	2	2	5	5
Wharariki	<i>Phormium cookianum</i>	5	1	1	6
Harakeke	<i>Phormium tenax</i>	5	1	2	8
Kawakawa	<i>Piper excelsum</i>	5	4	4	6
Koromiko	<i>Veronica macrocarpa var. macrocarpa</i>	2	0.8	0.6	5
Adjacent to WPD (Forest Edge Context)					
Forest sedge	<i>Carex lambergiana</i>	2	0.8	1	3
Aruhe	<i>Coprosma acrotata</i>	2	2	3	3
Mingimingi	<i>Coprosma propinqua</i>	2	2.5	5	4
Mingimingi	<i>Coprosma rhinoides</i>	2	1	1.5	3
Māhoe	<i>Melicthus ramiflorus</i>	5	1	6	4
Māpou	<i>Myrsine australis</i>	2	3	5	3
Wā	<i>Poa cila</i>	2	0.8	0.7	3
Houpara	<i>Pseudopanax lessoni</i>	2	4	6	2
Adjacent to Road					
Toetoe	<i>Austroderia fulvida</i>	1	1	1.5	4
Speckled sedge	<i>Carex testacea</i>	2	0.6	0.4	4
Taupata	<i>Coprosma repens</i>	2	3	5	5
Tauhū	<i>Ozothamnus leptophyllus</i>	2	2	2	4
Pinatoto	<i>Pimelea prostrata</i>	2	1	0.1	4
Koromiko	<i>Veronica stricta var. stricta</i>	1	1	2	4

Shearwater Habitat Mix					
Total Area: 21,211m ²					
Māori / Common Name	Botanical Name	Size (L)	Spacing (m)	Mature height	%
Stream Edge					
Toetoe	<i>Austroderia fulvida</i>	1	1	1.5	7
Kiokio	<i>Blechnum novae-zelandiae</i>	1	0.75	1	14
Forest sedge	<i>Carex dissila</i>	1	0.75	0.5	14
Rautahi	<i>Carex geminata; C. lessoni</i>	1	1	1	14
Pukio	<i>Carex virgata</i>	1	1	1	16
Putaputawētā	<i>Carpodetus serratus</i>	1	1	6	14
Ti Kouka/cabbage tree	<i>Cordyline australis</i>	1	1	8+	7
Koromiko	<i>Veronica stricta var. stricta</i>	1	1	2	14
Back Wetland					
Toetoe	<i>Austroderia fulvida</i>	1	1	1.5	5
Kiokio	<i>Blechnum novae-zelandiae</i>	1	0.75	1	10
Forest sedge	<i>Carex dissila</i>	1	0.75	0.5	15
Rautahi	<i>Carex geminata; C. lessoni</i>	1	1	1	15
Pukio	<i>Carex virgata</i>	1	1	1	15
Ti Kouka/cabbage tree	<i>Cordyline australis</i>	1	1	8+	5
Giant Umbrella sedge	<i>Cyperus ustulatus</i>	1	1	1.5	10
Mānuka	<i>Leptospermum scoparium</i>	1	1	5	6
Harakeke/Rax	<i>Phormium tenax</i>	1	1	3	12
Pātē	<i>Schefflera digitata</i>	1	1	8	7
Flood Area					
Toetoe	<i>Austroderia fulvida</i>	1	1	1.5	5
Kiokio	<i>Blechnum novae-zelandiae</i>	1	0.75	1	12
Forest sedge	<i>Carex dissila</i>	1	0.75	0.5	12
Rautahi	<i>Carex geminata; C. lessoni</i>	1	1	1	14
Pukio	<i>Carex virgata</i>	1	1	1	14
Putaputawētā	<i>Carpodetus serratus</i>	1	1	6	6
Ti Kouka/cabbage tree	<i>Cordyline australis</i>	1	1	8+	5
Mānuka	<i>Leptospermum scoparium</i>	1	1	5	5
Māhoe	<i>Melicthus ramiflorus</i>	1	1	6	5
Harakeke/Rax	<i>Phormium tenax</i>	1	1	3	12
Koromiko	<i>Veronica stricta var. stricta</i>	1	1	2	10
Dry Slope					
Toetoe	<i>Austroderia fulvida</i>	1	1	1.5	5
Kiokio	<i>Blechnum novae-zelandiae</i>	1	0.75	1	3
Forest sedge	<i>Carex dissila</i>	1	0.75	0.5	5
Rautahi	<i>Carex geminata; C. lessoni</i>	1	1	1	5
Pukio	<i>Carex virgata</i>	1	1	1	5
Putaputawētā	<i>Carpodetus serratus</i>	1	1	6	5
Karamū	<i>Coprosma robusta</i>	1	1	6	5
Ti Kouka/cabbage tree	<i>Cordyline australis</i>	1	1	8+	5
Giant Umbrella sedge	<i>Cyperus ustulatus</i>	1	1	1.5	5
Pōneke/whiri	<i>Hedycarya arborea</i>	1	1	8	5
Houhere/facebark	<i>Habea papuana</i>	1	1	8	5
Kānuka	<i>Kunzea robusta</i>	1	1	10	10
Mānuka	<i>Leptospermum scoparium</i>	1	1	5	10
Māhoe	<i>Melicthus ramiflorus</i>	1	1	6	5
Māpou	<i>Myrsine australis</i>	1	1	6	2
Harakeke/Rax	<i>Phormium tenax</i>	1	1	3	11
Kōhuhu	<i>Pittosporum tenuifolium</i>	1	1	6	2
Ribbonwood	<i>Plagianthus regius subsp. regius</i>	1	1	8	2
Pātē	<i>Schefflera digitata</i>	1	1	8	2
Koromiko	<i>Veronica stricta var. stricta</i>	1	1	2	3

Ecological Planting Revegetation Mix					
Ecological Restoration - A & B: Total Area: 106,130m ²					
Māori / Common Name	Botanical Name	Size (L)	Spacing (m)	Mature height	%
Karamū	<i>Coprosma robusta</i>	1	5	4	6
Ti Kouka	<i>Cordyline australis</i>	1	5	10	5
Kahikatea	<i>Dacrydium dacrydioides</i>	5	5	50	10
Houhere	<i>Habea saxifolia</i>	1	3	8	6
Kānuka	<i>Kunzea robusta</i>	1	4	8	2
Mānuka	<i>Leptospermum scoparium</i>	1	4	5	15
Māhoe	<i>Melicthus ramiflorus</i>	5	4	5	2
Māpou	<i>Myrsine australis</i>	1	5	5	3
Harakeke	<i>Phormium tenax</i>	1	2.5	2	7
Kōhuhu	<i>Pittosporum tenuifolium</i>	1	1	6	7
Tōtara	<i>Podocarpus totara</i>	5	6	15	15
Koromiko	<i>Veronica stricta var. stricta</i>	1	1	2	6
Pūriri	<i>Vitex lucens</i>	5	6	15	16

Enrichment Planting Mix					
Ecological Restoration - A: Total Area: 52,052m ² at year 1 Ecological Restoration - B: Total Area: 54,078m ² at year 4					
Māori / Common Name	Botanical Name	Size (L)	Spacing (m)	Mature height	%
Kauri	<i>Araucaria australis</i>	5	6	30	5
Tararua	<i>Balsschmidia tararua</i>	5	4	20	55
Tawa	<i>Balsschmidia tawa</i>	5	4	20	70
Shiny karamū	<i>Coprosma lucida</i>	1	1.5	3	1
Twiggy coprosma	<i>Coprosma rhinoides</i>	1	1	1.5	1
Karako	<i>Corynocarpus latypholus</i>	5	4	12	1
Kahikatea	<i>Dacrydium dacrydioides</i>	5	5	50	7
Rimu	<i>Dacrydium cupressinum</i>	5	6	25	14
Kōhekohe	<i>Didymopanax spectabile</i>	5	4	10	2
Hangehange	<i>Geitonoma ligustrifolium var. ligustrifolium</i>	1	2	3	1
Pōneke/whiri	<i>Hedycarya arborea</i>	1	3	8	3
Houhere	<i>Habea saxifolia</i>	1	3	6	1
Bewarea	<i>Koheke excelsa</i>	5	5	20	3
Tōtara	<i>Podocarpus totara</i>	5	6	15	12
Miro	<i>Prumnopitys ferruginea</i>	5	4	15	26
Pūriri	<i>Vitex lucens</i>	5	6	15	7

This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001:2000.

CONSULTANT



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CLIENT



NZ TRANSPORT
AGENCY
WAKA KOTAHI

PROJECT

Mill Road – Stage 1

Consenting Design

Roads of
National
Significance

REGISTRATION

FOR CONSENT

PROJECT MANAGEMENT INITIALS

MBe	ACH	TLi
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	AUK46	SURVEY	NZTM
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ISSUE/REVISION

G	24.08.26	100% CONSENTING DESIGN
F	04.02.26	100% CONSENTING DESIGN
E	16.12.25	100% CONSENTING DESIGN
D	18.11.25	100% CONSENTING DESIGN
C	19.09.25	100% CONSENTING DESIGN
B	12.09.25	100% CONSENTING DESIGN
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60755376

SHEET TITLE

Mill Road RoNS Stage 1 FTA
PLANT SCHEDULE 2/2

SHEET NUMBER

60755376-SHT-LD-0151

APPENDIX D Plant Species Lists

Stream Riparian Mix					
Total Area: 31,841m ²					
Māori / Common Name	Botanical Name	Size (L)	Spacing (m)	Mature height	%
Stream Edge					
Toetoe	<i>Austroderia fulvida</i>	1	1	1.5	7
Kiokio	<i>Blechnum novae-zelandiae</i>	1	0.75	1	14
Forest sedge	<i>Carex dissita</i>	1	0.75	0.5	14
Rautahi	<i>Carex geminata</i> ; <i>C. lessoniana</i>	1	1	1	14
Pūkio	<i>Carex virgata</i>	1	1	1	16
Putaputawētā	<i>Carpodetus serratus</i>	1	1	6	14
Ti kōuka/cabbage tree	<i>Cordyline australis</i>	1	1	8 +	7
Koromiko	<i>Veronica stricta</i> var. <i>stricta</i>	1	1	2	14
Back Wetland					
Toetoe	<i>Austroderia fulvida</i>	1	1	1.5	5
Kiokio	<i>Blechnum novae-zelandiae</i>	1	0.75	1	10
Forest sedge	<i>Carex dissita</i>	1	0.75	0.5	15
Rautahi	<i>Carex geminata</i> ; <i>C. lessoniana</i>	1	1	1	15
Pūkio	<i>Carex virgata</i>	1	1	1	15
Ti kōuka/cabbage tree	<i>Cordyline australis</i>	1	1	8 +	5
Giant umbrella sedge	<i>Cyperus ustulatus</i>	1	1	1.5	10
Mānuka	<i>Leptospermum scoparium</i>	1	1	5	6
Harakeke/flax	<i>Phormium tenax</i>	1	1	3	12
Patē	<i>Schefflera digitata</i>	1	1	8	7
Flood Area					
Toetoe	<i>Austroderia fulvida</i>	1	1	1.5	5
Kiokio	<i>Blechnum novae-zelandiae</i>	1	0.75	1	12
Forest sedge	<i>Carex dissita</i>	1	0.75	0.5	12
Rautahi	<i>Carex geminata</i> ; <i>C. lessoniana</i>	1	1	1	14
Pūkio	<i>Carex virgata</i>	1	1	1	14
Putaputawētā	<i>Carpodetus serratus</i>	1	1	6	6
Ti kōuka/cabbage tree	<i>Cordyline australis</i>	1	1	8 +	5
Mānuka	<i>Leptospermum scoparium</i>	1	1	5	5
Māhoe	<i>Melicytus ramiflorus</i>	1	1	6	5
Harakeke/flax	<i>Phormium tenax</i>	1	1	3	12
Koromiko	<i>Veronica stricta</i> var. <i>stricta</i>	1	1	2	10
Dry Slope					
Toetoe	<i>Austroderia fulvida</i>	1	1	1.5	5
Kiokio	<i>Blechnum novae-zelandiae</i>	1	0.75	1	3
Forest sedge	<i>Carex dissita</i>	1	0.75	0.5	5
Rautahi	<i>Carex geminata</i> ; <i>C. lessoniana</i>	1	1	1	5
Pūkio	<i>Carex virgata</i>	1	1	1	5

Putaputawētā	<i>Carpodetus serratus</i>	1	1	6	5
Karamū	<i>Coprosma robusta</i>	1	1	6	5
Ti kōuka/cabbage tree	<i>Cordyline australis</i>	1	1	8 +	5
Giant umbrella sedge	<i>Cyperus ustulatus</i>	1	1	1.5	5
Porokaiwhiri	<i>Hedycarya arborea</i>	1	1	8	5
Houhere/lacebark	<i>Hoheria populnea</i>	1	1	8	5
Kānuka	<i>Kunzea robusta</i>	1	1	10	10
Mānuka	<i>Leptospermum scoparium</i>	1	1	5	10
Māhoe	<i>Melicytus ramiflorus</i>	1	1	6	5
Māpou	<i>Myrsine australis</i>	1	1	6	2
Harakeke/flax	<i>Phormium tenax</i>	1	1	3	11
Kōhūhū	<i>Pittosporum tenuifolium</i>	1	1	6	2
Ribbonwood	<i>Plagianthus regius</i> subsp. <i>Regius</i>	1	1	8	2
Patē	<i>Schefflera digitata</i>	1	1	8	2
Koromiko	<i>Veronica stricta</i> var. <i>stricta</i>	1	1	2	3

Wetland Mix					
Total Area: 22,574m²					
Māori / Common Name	Botanical Name	Size (L)	Spacing (m)	Mature height	%
Oioi	<i>Apodasmia similis</i>	1	1	1	5
Jointed Twigrush	<i>Baumea articulata</i>	1	1	1.5	10
Purei	<i>Carex secta</i>	1	1	1	12.5
Pukio	<i>Carex virgata</i>	1	1	0.8	12.5
Ti Kouka	<i>Cordyline australis</i>	1	1	10	10
Upokotangata	<i>Cyperus ustulatus</i>	1	1	1	5
Sharp Spike Sedge	<i>Eleocharis acuta</i>	1	1	0.5	5
Wiwi	<i>Ficinia nodosa</i>	1	1	0.7	10
Baumea	<i>Machaerina rubiginosa</i>	1	1	1.8	10
Pakihi Rush	<i>Machaerina teretifolia</i>	1	1	1	10
Harekeke	<i>Phormium tenax</i>	1	1	2	10