

**[DRAFT] Standard Terms Determination for Chorus'**  
**~~UNBUNDLED COPPER LOCAL LOOP~~ AND Unbundled Copper**  
**Low Frequency Network Backhaul (Telephone Exchange to**  
**Interconnect Point) Service**

Proposed amendments for consultation under s 30R of the Telecommunications Act 2001

Being a standard terms determination that applies to the service described in subpart 1 of Part 2 of Schedule 1 of the Telecommunications Act 2001 as Chorus's unbundled copper local loop network backhaul (telephone exchange to interconnect point), as supplied for the purposes of providing access to and interconnection with Chorus' unbundled copper low frequency service

**Commented [A1]:** The reasons for updating this document are described in "Section 30R reviews of five regulated telecommunications services' standard terms determinations - Explanatory paper". For each meaningful change we have identified the relevant paragraphs in the explanatory paper using square brackets

**Commented [A2]:** Editing to standalone UCLF Backhaul STD [23.1]

**Schedule 5: ~~UCLL AND~~ UCLF Backhaul POI Site Related Information**

**Date of determination:** 27 June 2008

Updated to incorporate Commerce Commission decisions, amendments, and clarifications through to 15 December 2019

**Commented [A3]:** Proposed effective date of reviews [17, 18, 24, 25]

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## 1. Content of Schedule 5

- 1.1 This schedule forms part of the ~~UCLL and~~ UCLF Backhaul Terms which set out the rights and obligations of Chorus and Access Seekers in relation to Chorus' unbundled copper local loop network ~~UCLL and~~ UCLF backhaul service (~~UCLL and~~ UCLF Backhaul Service). It sets out to the extent necessary:
- 1.1.1 A list of POI Sites for interconnection to the ~~UCLL and~~ UCLF Backhaul Service – Appendix A;
  - 1.1.2 Details of the Primary Links and Secondary Links where the ~~UCLL and~~ UCLF Backhaul Service is available – Appendix B; and
  - 1.1.3 Lists of the radial distances for Primary Links and Secondary Links, between Parent POI Sites and associated Local Exchanges, and between POI Sites – Appendix C.
- 1.2 The definitions set out in the ~~UCLL and~~ UCLF Backhaul General Terms and the UCLL and UCLF Backhaul Service Description apply to the extent that they are not expressly modified by or inconsistent with the context of this Schedule 5.

**Commented [A4]:** Removal of reference to the UCLL service [21]

## Appendix A – List of POI Sites for interconnection to the ~~UCLL and~~ UCLF Backhaul Service

### Notes:

This list set out the 29 POI Sites where Access Seekers may interconnect for the purposes of the ~~UCLL and~~ UCLF Backhaul Service. This list must be made available to Access Seekers via a secure Chorus web portal and must be regularly updated by Chorus where required.

Christchurch  
Cromwell  
Dunedin  
Glenfield  
Greymouth  
Hamilton  
Henderson  
Howick  
Invercargill  
Kerikeri  
Levin  
Auckland Central  
Mt Albert  
Naenae  
Napier  
Nelson  
New Plymouth  
Palmerston North  
Papakura  
Papatoetoe  
Porirua  
Remuera  
Riccarton  
Rotorua  
Tauranga  
Timaru  
Torbay  
Wellington  
Whangarei

## Appendix B – Links where the UCLF and UCLF Backhaul Service is available

### Primary Links

Subject to the terms of the UCLF and UCLF Backhaul Service Description, the table below shows the Primary Links on which the UCLF and UCLF Backhaul Service must be supplied by Chorus on the request of the Access Seeker:

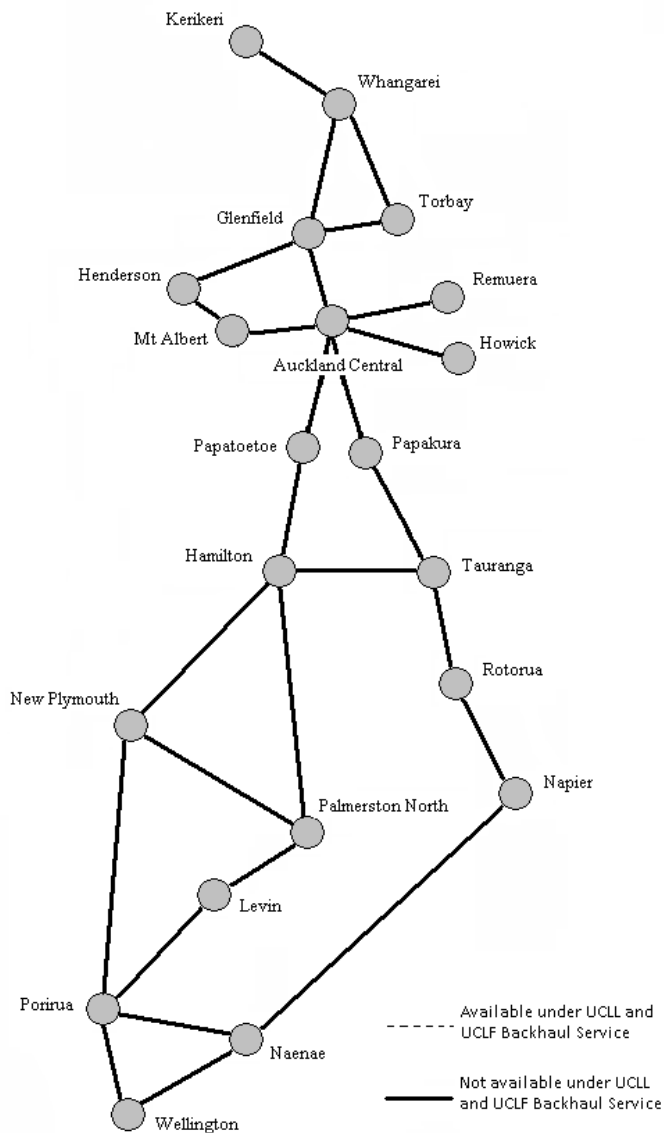
Local Exchange	Parent POI
Kaitaia	Kerikeri
Maungatapere	Whangarei
Onerahi	Whangarei
Hibiscus Coast	Torbay
Matakana	Torbay
Waiatarau	Henderson
Waiheke	Howick
Whitford	Howick
Waiau Pa	Papakura
Waiuku	Papakura
Cambridge	Hamilton
Coromandel	Hamilton
Mangakino	Hamilton
Tairua	Hamilton
Thames	Hamilton
Pacific View	Tauranga
Kawerau	Tauranga
Te Puna	Tauranga
Welcome Bay	Tauranga
Ngongataha	Rotorua
Haumoana	Napier
Matawai	Napier
Otamauri	Napier
Patutahi	Napier
Waimarama	Napier
Wairoa	Napier

Spotswood	New Plymouth
Oakura	New Plymouth
Opunake	New Plymouth
Maxwells Line	Palmerston North
Upper Moutere	Nelson
Hokitika	Greymouth
Westport	Greymouth
Darfield	Riccarton
Little River	Christchurch
Sumner	Christchurch
Kurow	Timaru
Alexandra	Cromwell
Ranfurly	Cromwell
Roxburgh	Cromwell
Twizel	Cromwell
Andersons Bay	Dunedin
Te Anau	Invercargill
Tuatapere	Invercargill

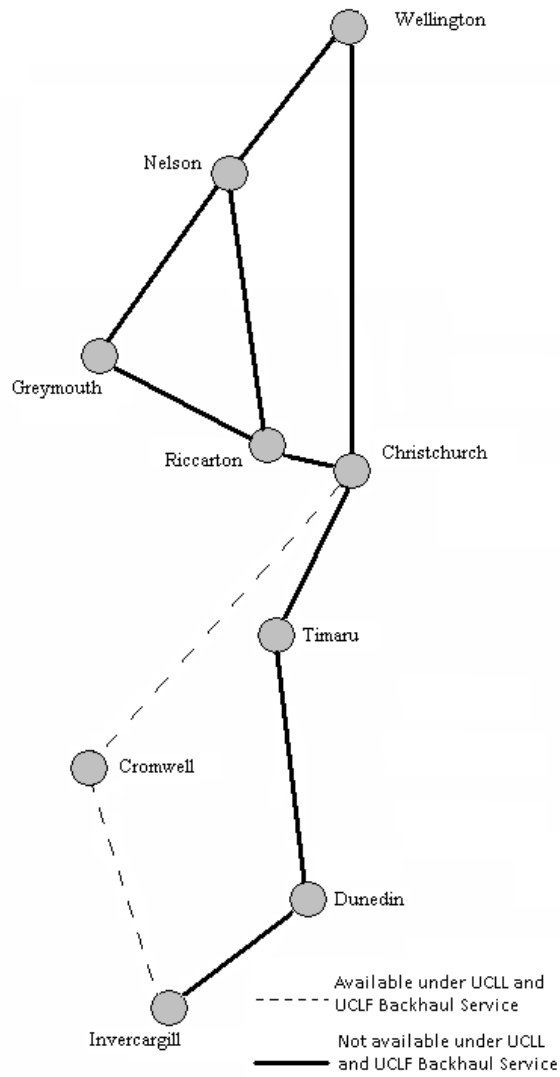
## Secondary Links

Subject to the terms of the UCLL and UCLF Backhaul Service Description, the diagrams below show the Secondary Links where the UCLL and UCLF Backhaul Service must be supplied by Chorus on the request of the Access Seeker and where Chorus is not required to supply the UCLL and UCLF Backhaul Service:

North Island:



South Island:





## Appendix C – Radial distances for the UCLL and UCLF Backhaul Service

### Radial Distance – Exchange to Parent POI – Primary Links

#### Notes:

The UCLL Service and the UCLF Service are-is not currently available at all exchanges in this list. Therefore, not all exchanges in this list will have the UCLL and UCLF Backhaul Service available from them. Appendix B sets out the Primary Links and Secondary Links where the UCLL and UCLF Backhaul Service is available.

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
AAI	AWANUI	KERIKERI	66
ABB	ANDERSONS BAY	DUNEDIN	3
ABY	ALBURY	TIMARU	35
AH	ASHHURST	PALMERSTON NORTH	14
AHA	ATAAHUA	RICCARTON	28
AKCEN	AIREDALE STREET	AUCKLAND CENTRAL	0
AL	ALEXANDRA	CROMWELL	28
ALY	ALBANY	TORBAY	6
AO	AKAROA	CHRISTCHURCH	40
AON	AONGATETE	TAURANGA	20
APA	AHIPARA	KERIKERI	73
AR	ASHBURTON	CHRISTCHURCH	82
ARD	ARUNDEL	TIMARU	46
ARU	AUROA	NEW PLYMOUTH	47
ATN	ALICETOWN	NAENAE	4
AVD	AVONDALE	MT ALBERT	3
AVO	AVONHEAD	RICCARTON	3
AW	ARROWTOWN	CROMWELL	31
AWF	ASHWICK FLAT	TIMARU	56
AWI	ATAWHAI	NELSON	5
AWU	AWHITU	PAPAKURA	27
AY	AMBERLEY	CHRISTCHURCH	43
BAL	BALFOUR	INVERCARGILL	67
BBK	BELL BLOCK	NEW PLYMOUTH	7
BD	BIRKENHEAD	GLENFIELD	4
BEA	BEACHLANDS	HOWICK	8
BEL	BELFAST	CHRISTCHURCH	10
BGN	BRIGHTON	DUNEDIN	15
BGW	BRIGHTWATER	NELSON	19
BHB	BLOCKHOUSE BAY	MT ALBERT	5
BHE	BETHLEHEM	TAURANGA	4
BHN	BURNHAM	RICCARTON	24
BKL	BIRKDALE	GLENFIELD	3
BKM	BECKENHAM	CHRISTCHURCH	3
BL	BALCLUTHA	DUNEDIN	71
BLF	BLUFF	INVERCARGILL	21
BM	BLENHEIM	WELLINGTON	73
BMT	BELMONT	NAENAE	2
BOB	BOMBAY	PAPAKURA	15
BRW	BROADWOOD	KERIKERI	51

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
BS	BULLS	PALMERSTON NORTH	28
BSY	BROWNS BAY	TORBAY	3
BUN	BUNNYTHORPE	PALMERSTON NORTH	8
BUR	BURWOOD	CHRISTCHURCH	7
BV	BAY VIEW	NAPIER	9
BYM	BRYMER	HAMILTON	5
CAM	CHELtenham	PALMERSTON NORTH	27
CAV	CAVE	TIMARU	26
CB	CAMBRIDGE	HAMILTON	20
CD	CLEVEDON	PAPAKURA	11
CE	CLIVE	NAPIER	11
CH	CHRISTCHURCH	CHRISTCHURCH	0
CI	CARTERTON	NAENAE	53
CL	COROMANDEL	HAMILTON	116
CLE	CLAUDELANDS	HAMILTON	2
CMW	CROMWELL	CROMWELL	0
CO	CLINTON	DUNEDIN	95
CPC	COURTENAY PLACE	WELLINGTON	2
CT	CHEVIOT	CHRISTCHURCH	95
CTE	CORSTORPHINE	DUNEDIN	4
CTP	CANTERBURY TECHNOLOGY PARK	RICCARTON	4
CU	CUST	RICCARTON	30
CVD	CULVERDEN	CHRISTCHURCH	86
CVE	CLOVERLEA	PALMERSTON NORTH	3
CW	COLLINGWOOD	NELSON	84
CYD	CLYDE	CROMWELL	19
DA	DEVONPORT	GLENFIELD	8
DBK	DUNBACK	DUNEDIN	56
DHB	DIAMOND HARBOUR	CHRISTCHURCH	14
DMD	DRUMMOND	INVERCARGILL	33
DN	DUNEDIN	DUNEDIN	0
DOB	DOBSON	GREYMOOUTH	8
DOR	DORIE	CHRISTCHURCH	61
DRF	DARFIELD	RICCARTON	39
DRL	DARGAVILLE	WHANGAREI	47
DSD	DUNSANDEL	RICCARTON	35
DV	DANNEVIRKE	NAPIER	106
EDD	EDENDALE	INVERCARGILL	36
EDG	EDGEcumbe	TAURANGA	66
EE	EASTBOURNE	NAENAE	11
EKA	EKETAHUNA	PALMERSTON NORTH	33
ELL	ELLERSLIE	REMUERA	3
ELS	ELSTOW	HAMILTON	44
ELT	ELTHAM	NEW PLYMOUTH	45
ENF	ENFIELD	TIMARU	80
ETM	EAST TAMAKI	PAPATOETOE	6
EUR	EUREKA	HAMILTON	14
FB	FOXTON BEACH	LEVIN	17
FDN	FENDALTON	RICCARTON	2
FG	FEILDING	PALMERSTON NORTH	15

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
FGF	FLAGSTAFF	HAMILTON	7
FJG	FRANZ JOSEPH GLACIER	GREYMOUTH	134
FJN	FRANKTON	HAMILTON	2
FK	FAIRLIE	TIMARU	47
FLH	FRANKLEIGH PARK	NEW PLYMOUTH	2
FME	FLAXMERE	NAPIER	18
FN	FEATHERSTON	NAENAE	33
FOR	FORREST HILL	TORBAY	8
FX	FOXTON	LEVIN	16
FXR	FOX GLACIER	GREYMOUTH	149
GC	GRANITY	GREYMOUTH	106
GD	GERALDINE	TIMARU	34
GDW	GLENDOWIE	REMUERA	7
GG	GORE	INVERCARGILL	58
GID	GREEN ISLAND	DUNEDIN	6
GL	GLENAVY	TIMARU	59
GLB	GLENBROOK	PAPAKURA	24
GLE	GLEN EDEN	HENDERSON	4
GLF	GLENFIELD	GLENFIELD	0
GLS	GLADSTONE	NAENAE	60
GLT	GLENITI	TIMARU	4
GLU	GLENTUNNEL	RICCARTON	53
GM	GREYMOUTH	GREYMOUTH	0
GMY	GLEN MURRAY	PAPAKURA	46
GN	GREYTOWN	NAENAE	46
GNH	GREENHITHE	TORBAY	10
GNO	GLEN OROUA	LEVIN	33
GOR	GORDONTON	HAMILTON	13
GOV	GOVERNORS BAY	CHRISTCHURCH	10
GPK	GREENPARK	RICCARTON	18
GS	GISBORNE	NAPIER	132
GTN	GARSTON	INVERCARGILL	104
GV	GONVILLE	PALMERSTON NORTH	69
HA	HAMPDEN	TIMARU	109
HAL	HALCOMBE	PALMERSTON NORTH	26
HAS	HAAST	GREYMOUTH	236
HAW	HAWARDEN	CHRISTCHURCH	68
HBC	HIBISCUS COAST	TORBAY	7
HBN	HASTINGS	NAPIER	18
HCK	HOWICK	HOWICK	0
HDS	HINDS	CHRISTCHURCH	100
HFB	HALFWAY BUSH	DUNEDIN	3
HG	HIKURANGI	WHANGAREI	15
HIG	HIGHBANK	CHRISTCHURCH	72
HIL	HILTON	TIMARU	30
HIM	HIMATANGI	LEVIN	25
HIN	HINUERA	HAMILTON	41
HIT	HILDERTHORPE	TIMARU	69
HK	HOKITIKA	GREYMOUTH	36
HL	HELENSVILLE	HENDERSON	28

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
HLV	HUNTLY	HAMILTON	28
HMB	HALFMOON BAY	INVERCARGILL	57
HMN	HAUMOANA	NAPIER	14
HN	HAMILTON	HAMILTON	0
HNE	HAMILTON EAST	HAMILTON	2
HO	HORORATA	RICCARTON	51
HOT	HOROTIU	HAMILTON	13
HP	HANMER SPRINGS	CHRISTCHURCH	113
HR	HUIA	HENDERSON	15
HRD	HAREWOOD	RICCARTON	5
HRI	HARIHARI	GREYMOUTH	95
HRT	HERIOT	INVERCARGILL	95
HSL	HALSWELL	RICCARTON	6
HSN	HENDERSON	HENDERSON	0
HTI	HATAITAI	WELLINGTON	3
HTN	HILLMORTON	RICCARTON	3
HUN	HUNUA	PAPAKURA	11
HV	HAVELOCK	WELLINGTON	85
HVL	HUNTERVILLE	PALMERSTON NORTH	47
HVN	HAVELOCK NORTH	NAPIER	20
HW	HAWERA	NEW PLYMOUTH	62
HY	HENLEY	DUNEDIN	26
IBY	ISLAND BAY	WELLINGTON	6
ID	INGLEWOOD	NEW PLYMOUTH	15
IN	INVERCARGILL	INVERCARGILL	0
INE	INVERCARGILL EAST	INVERCARGILL	2
INJ	INANGAHUA JUNCTION	GREYMOUTH	90
ISL	ISLINGTON	RICCARTON	6
JFK	JOHN F KENNEDY	PALMERSTON NORTH	2
JV	JOHNSONVILLE	WELLINGTON	7
KA	KARAKA	PAPAKURA	10
KAA	KAIAUA	PAPAKURA	32
KAM	KAMO	WHANGAREI	5
KAN	KAIRANGA	PALMERSTON NORTH	8
KAO	KAEO	KERIKERI	21
KAP	KAPUKA	INVERCARGILL	22
KAU	KAWAU ISLAND	TORBAY	31
KC	KERIKERI	KERIKERI	0
KEN	KENNINGTON	INVERCARGILL	9
KEU	KAWERAU	TAURANGA	64
KF	KAIPARA FLATS	TORBAY	36
KFR	KAINGAROA FOREST	ROTORUA	41
KGR	KELVIN GROVE	PALMERSTON NORTH	4
KHA	KAHAROA	ROTORUA	10
KHO	KAIKOHE	KERIKERI	24
KI	KAIAPOI	CHRISTCHURCH	17
KIL	KILBIRNIE	WELLINGTON	5
KIM	KIMBOLTON	PALMERSTON NORTH	36
KIN	KIRIKOPUNI	WHANGAREI	30
KIW	KIWITAHU	HAMILTON	26

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
KK	KAIKOURA	CHRISTCHURCH	151
KLB	KELBURN	WELLINGTON	2
KM	KARAMEA	GREYMOUTH	153
KME	KUMEU	HENDERSON	13
KNA	KAITANGATA	DUNEDIN	68
KNG	KENSINGTON	WHANGAREI	3
KNH	KHANDALLAH	WELLINGTON	4
KOW	KUROW	TIMARU	73
KPA	KAUKAPAKAPA	HENDERSON	32
KPO	KAPONGA	NEW PLYMOUTH	42
KRI	KARORI	WELLINGTON	3
KT	KATIKATI	TAURANGA	27
KT	KATIKATI	TAURANGA	27
KTA	KAITAIA	KERIKERI	64
KUA	KUMARA	GREYMOUTH	20
KV	KAWAKAWA	KERIKERI	20
KW	KAI IWI	PALMERSTON NORTH	81
KWA	KAWHIA	HAMILTON	51
KWI	KIRWEE	RICCARTON	30
KWK	KAIWAKA	TORBAY	65
LAW	LAWRENCE	DUNEDIN	64
LBN	LOBURN	RICCARTON	32
LCN	LINCOLN	RICCARTON	15
LEI	LEITH VALLEY	DUNEDIN	4
LEP	LEPPERTON	NEW PLYMOUTH	12
LH	LEIGH	TORBAY	45
LHT	LOWER HUTT	NAENAE	4
LIN	LINWOOD	CHRISTCHURCH	3
LLD	LICHFIELD	HAMILTON	59
LMO	LOWER MOUTERE	NELSON	27
LMS	LUMSDEN	INVERCARGILL	75
LNH	LAKE NGAHEWA	ROTORUA	22
LOB	LOCHMARA BAY	WELLINGTON	66
LRV	LITTLE RIVER	CHRISTCHURCH	29
LSN	LEESTON	RICCARTON	35
LTK	LAKE TEKAPO	TIMARU	76
LTN	LINTON	PALMERSTON NORTH	7
LVN	LEVIN	LEVIN	0
LYE	LYNMORE	ROTORUA	3
LYN	LYTTON WEST	NAPIER	133
LYT	LYTTELTON	CHRISTCHURCH	10
MA	MANAIA	NEW PLYMOUTH	55
MAB	MT ALBERT	MT ALBERT	0
MAK	MAKIKIHI	TIMARU	28
MAM	MATAMATA	HAMILTON	43
MAN	MAUNGATI	TIMARU	23
MAT	MURCHISON	NELSON	99
MAU	MAUNGATUROTO	TORBAY	74
MAW	MAREWA	NAPIER	2
MBA	MARTINBOROUGH	NAENAE	44
MBB	MACANDREW BAY	DUNEDIN	8

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
MCK	MT COOK (THE HERMITAGE)	CROMWELL	162
MDL	MIDDLEMARCH	CROMWELL	89
MDR	MAYORAL DRIVE	AUCKLAND CENTRAL	0
MDX	MIDDLETON	RICCARTON	2
MFD	MAYFIELD	CHRISTCHURCH	103
MFL	MILLERS FLAT	CROMWELL	67
MGI	MANGONUI	KERIKERI	47
MGK	MAUNGAKARAMEA	WHANGAREI	17
MGL	MANGAKAHIA	WHANGAREI	29
MH	MAHIA	NAPIER	95
MHG	MAHURANGI	TORBAY	29
MHL	MAORI HILL	DUNEDIN	2
MHO	MAHENO	TIMARU	92
MI	MILTON	DUNEDIN	50
MIR	MIRAMAR	WELLINGTON	6
MKE	MANUTUKE	NAPIER	124
MKK	MARAEKAKAHO	NAPIER	31
MKN	MOKIHINUI	GREYMOUTH	119
MKO	MANGAKINO	HAMILTON	77
MKT	MAKETU	TAURANGA	27
MKW	MAKAREWA	INVERCARGILL	9
MKY	MANUKAU	PAPATOETOE	4
ML	MARTON	PALMERSTON NORTH	38
MMA	MEMORIAL AVENUE	RICCARTON	3
MMK	MAMAKU	ROTORUA	16
MMN	MT MAUNGANUI	TAURANGA	6
MMR	MARAMARUA	HAMILTON	61
MN	MANUTAHU	NEW PLYMOUTH	73
MNG	MORNINGTON	DUNEDIN	2
MNK	MANAKAU	LEVIN	12
MNR	MANUREWA	PAPAKURA	6
MNW	MANAWARU	HAMILTON	46
MOA	MOKAU	NEW PLYMOUTH	62
MOB	MOSSBURN	INVERCARGILL	83
MOD	MT EDEN	AUCKLAND CENTRAL	3
MOT	MOTUKARARA	RICCARTON	22
MOV	MORRINSVILLE	HAMILTON	26
MPE	MAUNGATAPERE	WHANGAREI	10
MPK	MATATOKI	HAMILTON	71
MPL	MT PLEASANT	CHRISTCHURCH	7
MPR	MANAPOURI	INVERCARGILL	110
MPU	MAUNGATAPU	TAURANGA	3
MPX	MAPUA	NELSON	16
MR	MERCER	HAMILTON	60
MRE	MANGERE	PAPATOETOE	4
MRN	MORVEN	TIMARU	48
MS	MASTERTON	NAENAE	66
MSI	MOSGIEL	DUNEDIN	12
MSM	MT SOMERS	CHRISTCHURCH	101
MSY	MASSEY	HENDERSON	4

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
MT	MATAURA	INVERCARGILL	47
MTA	MATATA	TAURANGA	56
MTG	MATANGI	HAMILTON	10
MTK	MATAKANA	TORBAY	40
MTL	MT ROSKILL	MT ALBERT	3
MTP	MANGATANGI	PAPAKURA	28
MU	MOTUEKA	NELSON	29
MUP	MURUPARA	ROTORUA	53
MV	MAURICEVILLE	NAENAE	75
MVE	MELVILLE	HAMILTON	3
MVN	METHVEN	RICCARTON	77
MWD	MATAWAI	NAPIER	137
MWI	MANGAWHAI	TORBAY	65
MWN	MT WELLINGTON	REMUERA	7
MXL	MAXWELLS LINE	PALMERSTON NORTH	3
NA	NAPIER	NAPIER	0
NAE	NAENAE	NAENAE	0
NAT	NATIONAL PARK	PALMERSTON NORTH	133
NB	NORMANBY	NEW PLYMOUTH	56
NBO	NEW BRIGHTON	CHRISTCHURCH	8
NE	NGAHERE	GREYMOUTH	20
NG	NGUNGURU	WHANGAREI	20
NGC	NIGHTCAPS	INVERCARGILL	55
NGI	NGATIMOTI	NELSON	34
NGT	NGATEA	HAMILTON	60
NGU	NGARUA	HAMILTON	34
NHI	NGAHINAPOURI	HAMILTON	14
NK	NUHAKA	NAPIER	87
NLN	NEW LYNN	MT ALBERT	6
NN	NELSON	NELSON	0
NOA	NGONGOTAHA	ROTORUA	7
NR	NGAKURU	ROTORUA	21
NT	NGARUAWAHIA	HAMILTON	18
NU	NEW PLYMOUTH	NEW PLYMOUTH	0
NVY	NORTH EAST VALLEY	DUNEDIN	3
NWD	NORSEWOOD	NAPIER	88
OAA	OTARA	PAPATOETOE	3
OAF	OHAKA	PALMERSTON NORTH	26
OAG	ONGA ONGA	NAPIER	64
OAH	OKAIHAU	KERIKERI	19
OAK	OWAKA	DUNEDIN	91
OAR	OTAMAURI	NAPIER	36
OAU	OTAUTAU	INVERCARGILL	40
OF	OKERE FALLS	ROTORUA	16
OH	OTAHUHU	PAPATOETOE	3
OHA	OTOROHANGA	HAMILTON	44
OHE	OHOPE	TAURANGA	84
OHK	OHOKA	RICCARTON	17
OHP	OHAUPO	HAMILTON	15
OIH	OHAI	INVERCARGILL	61

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
OK	OPUNAKE	NEW PLYMOUTH	48
OKE	OKAREKA	ROTORUA	9
OKI	OKAIAWA	NEW PLYMOUTH	50
OKL	OAKLEIGH	WHANGAREI	11
OKN	OHAKUNE	PALMERSTON NORTH	106
OKR	OAKURA	NEW PLYMOUTH	12
OMI	OMIHI	CHRISTCHURCH	59
OMM	OMARAMA	CROMWELL	86
OMO	OMOKOROA	TAURANGA	12
OMT	OTEMATATA	CROMWELL	92
OMU	OMAKAU	CROMWELL	32
ON	ONEHUNGA	PAPATOETOE	8
ONH	ONEWHERO	PAPAKURA	30
OOK	OKAWA	NAPIER	21
OP	OPOTIKI	TAURANGA	105
OPK	OPIKI	PALMERSTON NORTH	16
OPN	OPONONI	KERIKERI	57
ORA	OUTRAM	DUNEDIN	21
ORH	ONERAHI	WHANGAREI	6
ORM	ORMOND	NAPIER	135
ORN	ORINI	HAMILTON	26
ORP	OREPUKI	INVERCARGILL	48
OT	OTAKI	LEVIN	19
OTE	OTUMOETAI	TAURANGA	3
OTM	OTAUA	PAPAKURA	33
OTN	OTANE	NAPIER	52
OTO	OKATO	NEW PLYMOUTH	22
OTR	OTATARA	INVERCARGILL	4
OTU	OTIPUA	TIMARU	11
OTW	OTEWAI	HAMILTON	49
OU	OAMARU	TIMARU	81
OUN	OAMARU NORTH	TIMARU	79
OW	OHAEAWAI	KERIKERI	15
OWI	ORAWIA	INVERCARGILL	59
OX	OXFORD	RICCARTON	41
PA	PATEA	NEW PLYMOUTH	84
PAB	PARUA BAY	WHANGAREI	15
PAE	PAEKAKARIKI	PORIRUA	20
PAK	PAPAKURA	PAPAKURA	0
PAN	PARNASSUS	CHRISTCHURCH	106
PAP	PAPAROA	TORBAY	80
PAR	PAROA	GREYMOUTH	8
PAU	PUKERAU	INVERCARGILL	68
PBO	PORTOBELLO	DUNEDIN	10
PC	PORT CHALMERS	DUNEDIN	11
PCV	PACIFIC VIEW	TAURANGA	10
PE	PUKEHINA	TAURANGA	35
PEG	PAENGAROA	TAURANGA	26
PER	PERIA	KERIKERI	43
PGA	PAKURANGA	HOWICK	4



Code	Exchange Name	Parent POI	Radial Distance to Parent POI
PH	PORANGAHU	NAPIER	94
PHA	PAHIATUA	PALMERSTON NORTH	22
PHI	PATUTAHU	NAPIER	127
PHO	PATUMAHOE	PAPAKURA	17
PIH	PAIHIA	KERIKERI	14
PIN	PIRINOA	NAENAE	28
PIO	PIOPIO	HAMILTON	79
PIR	PIRONGIA	HAMILTON	24
PK	POKENO	HAMILTON	66
PKB	PUKERUA BAY	PORIRUA	11
PL	PALMERSTON	DUNEDIN	47
PLM	PLIMMERTON	PORIRUA	7
PLP	PLEASANT POINT	TIMARU	18
PM	PALMERSTON NORTH	PALMERSTON NORTH	0
PMA	PAPAMOA	TAURANGA	13
PN	PICTON	WELLINGTON	65
PNY	PUKENUI	KERIKERI	88
POA	PAEROA	HAMILTON	57
POP	PAPATOETOE	PAPATOETOE	0
POW	PORT WAIKATO	PAPAKURA	42
POY	PONSONBY	AUCKLAND CENTRAL	2
PRI	PURIRI	HAMILTON	70
PRM	PARAPARAUMU	PORIRUA	28
PRO	PORIRUA	PORIRUA	0
PTN	PETONE	NAENAE	6
PUE	PUKETURUA	HAMILTON	47
PUH	PUHOI	TORBAY	24
PUI	PAPANUI	CHRISTCHURCH	4
PUK	PUKEKOHE	PAPAKURA	16
PUT	PUTARURU	HAMILTON	52
PW	PUKEKAWA	PAPAKURA	31
PWA	PARAWERA	HAMILTON	34
QST	QUEENSTOWN	CROMWELL	43
RAG	RAGLAN	HAMILTON	36
RAI	RAI VALLEY	WELLINGTON	100
RAK	RAKAIA	CHRISTCHURCH	55
RAM	RAUMATI	PORIRUA	27
RBH	RYAL BUSH	INVERCARGILL	16
RCK	RENWICK	WELLINGTON	83
RCM	RUNCIMAN	PAPAKURA	5
RD	RICHMOND	NELSON	11
RDB	RED BEACH	TORBAY	11
RDV	REDWOOD VALLEY	NELSON	15
REO	REPOROA	ROTORUA	34
RET	RAETIHI	PALMERSTON NORTH	107
REW	REREWHAKAITU	ROTORUA	29
RHU	RAHOTU	NEW PLYMOUTH	38
RI	RIVERTON	INVERCARGILL	26
RIC	RICCARTON	RICCARTON	0
RKW	RUAKAWAKAWA	PAPAKURA	24

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
RL	RUSSELL	KERIKERI	16
RN	REEFTON	GREYMOUTH	65
RNF	RANFURLY	CROMWELL	71
RNU	RANGIOTU	PALMERSTON NORTH	16
RO	ROTORUA	ROTORUA	0
ROI	ROTOITI	ROTORUA	20
ROL	ROLLESTON	RICCARTON	18
RON	RONGOTEA	PALMERSTON NORTH	17
RR	RANGIORA	RICCARTON	25
RS	ROSS	GREYMOUTH	60
RSB	RAVENSBORNE	DUNEDIN	4
RTG	RUATANGATA	WHANGAREI	15
RUE	REMUERA	REMUERA	0
RUK	RUAKAKA	WHANGAREI	20
RUN	RUNANGA	GREYMOUTH	6
RUT	RUATORIA	NAPIER	216
RUW	RUAWAI	WHANGAREI	52
RVD	RIVERSDALE	INVERCARGILL	65
RWN	RAWENE	KERIKERI	45
RXB	ROXBURGH	CROMWELL	56
SCG	SCARGILL	CHRISTCHURCH	71
SCK	SPRING CREEK	WELLINGTON	71
SD	SHEFFIELD	RICCARTON	48
SDN	SEDDON	WELLINGTON	73
SEF	SEFTON	RICCARTON	32
SFD	STRATFORD	NEW PLYMOUTH	36
SHB	ST HELIERS BAY	REMUERA	5
SHN	SHANNON	LEVIN	13
SN	SANSON	PALMERSTON NORTH	22
SOD	SOUTH DUNEDIN	DUNEDIN	2
SOU	SOUTHBRIDGE	RICCARTON	41
SPE	SPENCERVILLE	CHRISTCHURCH	12
SPN	SPRINGSTON	RICCARTON	20
SR	SHIRLEY	CHRISTCHURCH	3
STA	ST ANDREWS	TIMARU	12
STI	SOUTH INVERCARGILL	INVERCARGILL	3
STJ	STUD/WILLOWBRIDGE	TIMARU	42
STK	STOKE	NELSON	5
STL	ST ALBANS	CHRISTCHURCH	2
SUM	SUMNER	CHRISTCHURCH	11
SV	STOKES VALLEY	NAENAE	4
SWO	SPOTSWOOD	NEW PLYMOUTH	4
TA	TE PUNA	TAURANGA	8
TAA	TAITAPU	RICCARTON	15
TAK	TAKAKA	NELSON	61
TAO	TE KAO	KERIKERI	110
TAP	TAPU	HAMILTON	91
TAR	TAIRUA	HAMILTON	101
TAT	TE ATATU	HENDERSON	3
TAU	TE PAHU	HAMILTON	19

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
TAW	TE AWAMUTU	HAMILTON	25
TBY	TORBAY	TORBAY	0
TDL	TARADALE	NAPIER	8
TEA	TANEATUA	TAURANGA	85
TEK	TE KAWA EXCHANGE	HAMILTON	36
TEP	TE POI	HAMILTON	50
TG	TAURANGA	TAURANGA	0
TGB	TOLAGA BAY	NAPIER	172
TGI	TURANGI	HAMILTON	141
TGN	TITIRANGI	HENDERSON	7
TH	THAMES	HAMILTON	76
THN	TAHUNA	HAMILTON	37
THO	TE HORO	LEVIN	25
THP	THORPE	NELSON	33
THR	TE AROHA	HAMILTON	47
TIB	TITAHU BAY	PORIRUA	4
TII	TIKTIKI	NAPIER	229
TIR	TIRAU	HAMILTON	47
TIS	THREE KINGS	MT ALBERT	5
TK	TEMUKA	TIMARU	17
TKE	TE KAHA	TAURANGA	134
TKG	TOKANUI	INVERCARGILL	49
TKK	TE KARAKA	NAPIER	140
TKO	TIKOKINO	NAPIER	54
TKT	TE KUITI	HAMILTON	61
TKU	TUAKAU	PAPAKURA	22
TKW	TE KOWHAI	HAMILTON	12
TKY	TOKOMARU BAY	NAPIER	194
TMK	TAMAKI	REMUERA	7
TMN	TAUMARUNUI	HAMILTON	122
TNA	TAKAPUNA	GLENFIELD	5
TNU	TE ANAU	INVERCARGILL	121
TOB	TOKOROA	HAMILTON	70
TOI	TOWAI	WHANGAREI	31
TOK	TOKOMARU	PALMERSTON NORTH	16
TP	TAPANUI	INVERCARGILL	88
TPE	TAIHAPE	PALMERSTON NORTH	77
TPI	TAUPIRI	HAMILTON	21
TPO	TAUPO	ROTORUA	63
TPS	TE PUIA SPRINGS	NAPIER	200
TPU	TAKAPAU	NAPIER	77
TPV	TE PUKE	TAURANGA	18
TPW	TAPAWERA	NELSON	41
TRA	TURUA	HAMILTON	66
TRF	TURITEA	PALMERSTON NORTH	4
TRG	TE RANGA	TAURANGA	5
TRL	TE ARAROA	NAPIER	241
TRM	TAIERI MOUTH	DUNEDIN	31
TRS	TARRAS	CROMWELL	28
TRV	TE RAPA	HAMILTON	4

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
TSM	TASMAN	NELSON	21
TTE	TUATAPERE	INVERCARGILL	59
TTK	TE TEKO	TAURANGA	67
TTR	TAHUNANUI	NELSON	3
TU	TIMARU	TIMARU	0
TUA	TURAKINA	PALMERSTON NORTH	48
TUK	TE UKU	HAMILTON	28
TUP	TE PURU	HAMILTON	85
TUW	TE KAUWHATA	HAMILTON	44
TWA	TAWA	PORIRUA	3
TWL	TWIZEL	CROMWELL	113
TY	THORNBURY	INVERCARGILL	24
UMO	UPPER MOUTERE	NELSON	23
UP	UPPER HUTT	NAENAE	11
UPN	UPPER HUTT NORTH	NAENAE	16
UR	UMAWERA	KERIKERI	35
URE	URENUI	NEW PLYMOUTH	28
WA	WAIROA	NAPIER	67
WAA	WHATAROA	GREYMOUTH	114
WAD	WARDVILLE	HAMILTON	45
WAE	WAIKANAE	PORIRUA	33
WAF	WAIKU PA	PAPAKURA	19
WAH	WAIHI	TAURANGA	44
WAK	WAITAKERE	HENDERSON	8
WAO	WAOTU	HAMILTON	53
WAU	WAIANIWA	INVERCARGILL	15
WAY	WASHDYKE	TIMARU	5
WB	WARD	WELLINGTON	81
WBA	WAIHAU BAY	TAURANGA	155
WBH	WAIHI BEACH	TAURANGA	38
WBY	WELCOME BAY	TAURANGA	5
WCM	WINCHMORE	CHRISTCHURCH	77
WD	WAIPU	WHANGAREI	31
WDL	WOODLANDS	INVERCARGILL	17
WDV	WOODVILLE	PALMERSTON NORTH	22
WE	WAIMATE	TIMARU	41
WEI	WHENUAPAI	HENDERSON	9
WEN	WHENUAKITE	HAMILTON	107
WFD	WELLSFORD	TORBAY	48
WG	WANGANUI	PALMERSTON NORTH	67
WGA	WAERENGA	HAMILTON	47
WGE	WANGANUI EAST	PALMERSTON NORTH	68
WGH	WHANGARA	NAPIER	153
WGL	WANGANUI GIRLS COLLEGE	PALMERSTON NORTH	68
WGM	WHANGAMATA	HAMILTON	83
WGU	WHANGAHEHU	PALMERSTON NORTH	54
WH	WAIHEKE	HOWICK	16
WHD	WHITFORD	HOWICK	7
WHK	WHAKATANE	TAURANGA	78
WHN	WHANGARURU	KERIKERI	40

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
WHR	WAIHARARA	KERIKERI	77
WHT	WHITIANGA	HAMILTON	112
WHW	WHATAWHATA	HAMILTON	11
WI	WAIPAWA	NAPIER	58
WIL	WILLOWBY	CHRISTCHURCH	93
WIR	WAIOURU	PALMERSTON NORTH	98
WK	WAIKOUAITI	DUNEDIN	33
WKG	WAITAKARURU	HAMILTON	62
WKK	WAIKAKA	INVERCARGILL	75
WKP	WHAKAPARA	WHANGAREI	22
WKU	WAIUKU	PAPAKURA	28
WKW	WAIKIWI	INVERCARGILL	4
WLB	WILLOWBANK	INVERCARGILL	67
WLD	WAKEFIELD	NELSON	25
WLN	WALTON	HAMILTON	37
WM	WAIMAUKU	HENDERSON	18
WMA	WAIMA	KERIKERI	43
WMK	WAIMAHAKA	INVERCARGILL	38
WMN	WAIMANA	TAURANGA	95
WN	WELLINGTON	WELLINGTON	0
WND	WOODEND	RICCARTON	24
WNK	WANAKA	CROMWELL	39
WNL	WAITUNA WEST	PALMERSTON NORTH	35
WNU	WAKANUI	CHRISTCHURCH	80
WO	WINTON	INVERCARGILL	30
WOA	WAINUIOMATA	NAENAE	8
WP	WESTPORT	GREYMOUTH	83
WPI	WAIPAHI	INVERCARGILL	77
WPR	WAIPARA	CHRISTCHURCH	54
WPU	WAKATIPU	CROMWELL	37
WR	WHANGAREI	WHANGAREI	0
WRE	WAREA	NEW PLYMOUTH	27
WRH	WHANGAREI HEADS	WHANGAREI	22
WRK	WAIRAKEI	ROTORUA	55
WRM	WAIMARAMA	NAPIER	36
WRY	WOODBURY	TIMARU	41
WS	WANSTEAD	NAPIER	79
WSF	WESTERFIELD	CHRISTCHURCH	89
WSR	WINDSOR	TIMARU	75
WT	WAITARA	NEW PLYMOUTH	15
WTB	WHITBY	PORIRUA	4
WTE	WAITERIMU	HAMILTON	34
WTG	WAITANGI (CHATHAMS)	AUCKLAND CENTRAL	805
WTH	WELLINGTON SOUTH	WELLINGTON	3
WTI	WAITATI	DUNEDIN	15
WTN	WAITANGIRUA	PORIRUA	3
WU	WAIUA	CHRISTCHURCH	103
WUA	WAIATARUA	HENDERSON	8
WV	WAVERLEY	PALMERSTON NORTH	106
WW	WARKWORTH	TORBAY	34

Schedule 5  
UCLF Backhaul POI Site Related Information

Code	Exchange Name	Parent POI	Radial Distance to Parent POI
WY	WAIPUKURAU	NAPIER	64
WYD	WYNDHAM	INVERCARGILL	40

Radial Distance – Parent POI to ASNAPOI – Secondary Links

ASNAPOI Parent POI	Auckland Central	Christchurch	Cromwell	Dunedin	Glenfield	Greymouth	Hamilton	Henderson	Howick	Invercargill
AUCKLAND										
CENTRAL	0	763	1022	1063	9	692	113	12	15	1188
CHRISTCHURCH	763	0	321	311	771	167	676	758	762	466
CROMWELL	1023	321	0	137	1029	331	952	1015	1024	166
DUNEDIN	1063	311	137	0	1070	385	982	1057	1063	177
GLENFIELD	9	771	1029	1070	0	698	123	14	22	1194
GREYMOOUTH	692	167	331	385	698	0	623	685	694	496
HAMILTON	114	676	952	982	123	623	0	116	104	1115
HENDERSON	12	758	1015	1057	14	685	116	0	26	1180
HOWICK	15	762	1024	1063	22	694	104	26	0	1189
INVERCARGILL	1188	466	166	177	1194	496	1115	1180	1189	0
KERIKERI	195	929	1162	1218	185	836	308	193	205	1328
LEVIN	420	391	699	701	429	396	314	419	414	853
MT ALBERT	4	760	1019	1060	11	688	112	8	17	1184
NAENAE	482	322	633	632	491	340	379	480	477	785
NAPIER	348	574	886	883	357	582	236	352	337	1038
NELSON	507	257	535	559	514	216	423	501	506	695
NEW PLYMOUTH	252	511	777	812	260	447	176	247	251	941
PALMERSTON	396	430	739	741	405	435	286	395	389	893
NORTH										
PAPAKURA	28	745	1009	1046	37	678	86	34	18	1174
PAPATOETOE	16	752	1014	1053	25	683	98	23	11	1179
PORIRUA	476	322	632	633	484	336	374	473	471	785
REMUERA	3	761	1021	1061	12	691	111	14	12	1186
RICCARTON	764	4	318	309	772	164	677	759	763	463
ROTORUA	194	672	965	982	203	642	93	200	181	1126
TAURANGA	155	713	1001	1022	163	675	78	163	141	1163
TIMARU	888	147	178	175	895	216	808	882	888	319
TORBAY	17	779	1037	1079	9	706	130	22	28	1202
WELLINGTON	491	306	617	616	500	323	390	489	487	769
WHANGAREI	131	878	1122	1172	122	793	244	131	141	1288

ASNAPOI Parent POI	Kerikeri	Levin	Mt Albert	Naenae	Napier	Nelson	New Plymouth	Palmerston North	Papakura	Papatoetoe
AUCKLAND CENTRAL	195	420	4	482	348	507	252	395	28	16
CHRISTCHURCH	929	391	760	322	574	257	511	430	745	752
CROMWELL	1162	699	1019	633	886	535	777	739	1009	1014
DUNEDIN	1218	701	1060	632	883	559	812	741	1046	1053
GLENFIELD	185	429	11	491	357	514	260	405	37	25
GREYMOUTH	836	396	688	340	582	216	447	435	678	683
HAMILTON	308	314	112	379	236	423	176	286	86	98
HENDERSON	193	419	8	480	352	501	247	395	34	23
HOWICK	205	414	17	477	337	506	251	389	18	11
INVERCARGILL	1328	853	1184	785	1038	695	941	893	1174	1179
KERIKERI	0	610	196	668	541	673	425	587	222	210
LEVIN	610	0	418	70	187	184	202	40	396	406
MT ALBERT	196	418	0	480	347	503	249	394	28	16
NAENAE	668	70	480	0	253	139	248	109	459	468

ASNAPOI Parent POI	Kerikeri	Levin	Mt Albert	Naenae	Napier	Nelson	New Plymouth	Palmerston North	Papakura	Papatoetoe
NAPIER	541	187	347	253	0	366	250	147	320	332
NELSON	673	184	503	139	366	0	255	221	489	496
NEW PLYMOUTH	425	202	249	248	250	255	0	195	234	241
PALMERSTON NORTH	587	40	394	109	147	221	195	0	370	381
PAPAKURA	222	396	28	459	320	489	234	370	0	12
PAPATOETOE	210	406	16	468	332	496	241	381	12	0
PORIRUA	661	69	473	10	254	132	240	108	453	462
REMUERA	198	418	5	480	345	505	250	393	25	13
RICCARTON	929	393	761	324	576	258	512	433	746	753
ROTORUA	383	288	194	358	161	431	215	252	166	178
TAURANGA	338	333	156	402	209	467	236	299	129	141
TIMARU	1044	535	885	466	719	385	638	575	872	878
TORBAY	178	438	20	499	364	523	268	413	44	33
WELLINGTON	676	85	489	17	269	125	254	125	469	478
WHANGAREI	65	549	133	609	476	622	370	526	158	147



ASNAPOI Parent POI	Porirua	Remuera	Riccarton	Rotorua	Tauranga	Timaru	Torbay	Wellington	Whangarei
AUCKLAND CENTRAL	476	3	764	194	155	888	18	491	131
CHRISTCHURCH	322	761	4	672	713	147	779	306	878
CROMWELL	632	1021	318	965	1001	178	1037	617	1122
DUNEDIN	633	1061	309	982	1022	175	1079	616	1172
GLENFIELD	484	12	772	203	163	895	9	500	122
GREYMOUTH	336	691	164	642	675	216	706	323	793
HAMILTON	374	111	677	93	78	808	130	390	244
HENDERSON	473	14	759	200	163	882	22	489	131
HOWICK	471	12	763	181	141	888	28	487	141
INVERCARGILL	785	1186	463	1126	1163	319	1202	769	1288
KERIKERI	661	198	929	383	338	1044	178	676	65
LEVIN	69	418	393	288	333	535	438	85	549
MT ALBERT	473	5	761	194	156	885	20	489	133
NAENAE	10	480	324	358	402	466	499	17	609
NAPIER	254	345	576	161	209	719	364	269	476
NELSON	132	505	258	431	467	385	523	125	622
NEW PLYMOUTH	240	250	512	215	236	638	268	254	370
PALMERSTON NORTH	108	393	433	252	299	575	413	125	526
PAPAKURA	453	25	746	166	129	872	44	469	158
PAPATOETOE	462	13	753	178	141	878	33	478	147
PORIRUA	0	473	325	354	398	466	493	17	602
REMUERA	473	0	762	191	152	887	20	489	134
RICCARTON	325	762	0	674	714	144	780	308	879
ROTORUA	354	191	674	0	49	811	209	371	318
TAURANGA	398	152	714	49	0	850	168	415	274
TIMARU	466	887	144	811	850	0	904	450	997
TORBAY	493	20	780	209	168	904	0	509	114
WELLINGTON	17	489	308	371	415	450	509	0	618
WHANGAREI	602	134	879	318	274	997	114	618	0