NORTHLAND PENINSULA SOIL LEGENDS

A. Legend of soil mapping units arranged physiographically

Soils of the Flood Plains

well to moderately well drained

- WFa — Whakapara sand
- WF — Whakapara silt loam and clay loam
- MF — Mangakahia silt loam and clay loam

imperfectly to very poorly drained

- WFm — Whakapara mottled clay loam
- MFm — Mangakahia mottled clay loam

Soils of the Estuarine Flats and Former Lake Beds

imperfectly to very poorly drained

- TCa — Takahiwai sand
- TC — Takahiwai clay
- TCy — Takahiwai peaty clay loam
- TCya — Takahiwai peaty sand
- TZ — Tawharanui sand
- TZy — Tawharanui peaty sand
- KP — Kaipara clay and clay loam
- KPy — Kaipara peaty clay loam
- KA — Kaitaia clay loam
- KAy — Kaitaia peaty clay loam
- KK — Kaikino sand
- TEKm — Te Kopuru sand, wet phase

Soils of the Coastal Sand Dune Complex

excessively to somewhat excessively drained

- MDH, MD — Marsden sand
- PNH, PN — Pinaki sand
- OE — Ohia sand
- WD — Whananaki sand

well to moderately well drained

- HOH, HO — Houhora sand
- RLaH, RLa — Red Hill sand
- RLH, RL — Red Hill sandy loam
- RLIH, RLI — Red Hill sandy clay loam
- TTH, TT — Tangitiki sandy loam and sand

imperfectly to very poorly drained

- OT — One Tree Point peaty sand
- TX — Te Hapua fine sandy loam
- TXp — Te Hapua sand with pan
- TEK — Te Kopuru sand
- TEKy — Te Kopuru peaty sand
- OEy — Ohia peaty sand
- PZ — Parore peaty sandy loam
- RK — Ruakaka peaty sandy loam
- RKu — Ruakaka fine sandy peat
- RKd — Ruakaka loamy peat
- RKv — Ruakaka peaty silt loam
- RKI — Ruakaka peaty fine sandy loam

Soils of the Undulating Terraces and Lowlands

well to moderately well drained

- OL — Otao silt loam
- PCr — Pakotai brown clay
- HV — Hobsonville clay loam
- KM — Kohumaru clay
- WOa — Whareora sand
- WO — Whareora clay loam
- KOr — Kamo reddish clay loam
- C1 — Otao - Waitemata - Albany - Coatesville - Otonga complex[1]
- C1A — Otao - Waitemata - Hobsonville Albany - Coatesville - complex[2]

imperfectly to very poorly drained

- OLm — Otao mottled silt loam
- AB — Albany silt loam
- WE — Waitemata silt loam
- WEm — Waitemata silt loam wet phase
- KMm — Kohumaru mottled clay
- PC — Pakotai clay
- PCm — Pakotai dark grey clay
- PCy — Pakotai peaty clay loam
- KO — Kamo clay loam

Soils of the Undulating Terraces and Lowlands (cont.)

imperfectly to very poorly drained (cont.)

- KOI — Kamo silt loam
- KOy — Kamo peaty silt loam
- YF — Waipapa clay
- WU — Waipuna clay
- CV — Coatesville silt loam
- KRa — Kara sandy loam
- KRap — Kara sandy loam with pan
- KR — Kara silt loam
- KRp — Kara silt loam with pan
- KRy — Kara peaty silt loam
- KRe — Kara clay
- OG — Otonga peaty clay loam
- OGd — Otonga loamy peat
- OGv — Otonga peaty silt loam
- YA — Wairua clay
- YUa — Waipu sand
- YUay — Waipu peaty sand
- YU — Waipu clay
- YUy — Waipu peaty silt loam and peaty clay
- OR — Otakairangi peaty clay loam
- ORd — Otakairangi loamy peat

Soils of the Rolling and Hilly Land

excessively to somewhat excessively drained

- OKgr — Okaihau very gravelly friable clay
- TA — Taraire gravelly friable clay

well to moderately well drained

- MUH, MU — Maunu silt loam
- MUb — Maunu bouldery silt loam
- WM — Waimate North clay loam
- PKH, PK — Papakauri silt loam
- PKeH, PKe — Papakauri clay loam
- WG — Whatitiri clay loam
- OW — Ohaeawai silt loam
- OWb — Ohaeawai shallow bouldery silt loam
- KBH, KB — Kiripaka bouldery silt loam
- KBb — Kiripaka bouldery silt loam, large boulders
- KBe — Kiripaka bouldery silt loam with compact subsoil
- KBeb — Kiripaka bouldery silt loam with compact subsoil, large boulders
- MGH, MG — Maungakohatu friable clay
- MZH, MZ — Manganese silt loam
- KE — Kerikeri friable clay
- KEb — Kerikeri friable clay with large boulders
- PTH — Paratai silt loam
- TVH, TV — Tikitohe gravelly silt loam
- TVH — Tikitohe reddish gravelly silt loam
- WP — Whakapai clay loam
- WPe — Whakapai friable clay
- OK — Okaihau gravelly friable clay
- OKb — Okaihau gravelly friable clay with dull brown subsoil
- YOH, YO — Waiotu friable clay
- YOb — Waiotu friable clay with large boulders
- RT — Ruatangata friable clay
- RTb — Ruatangata friable clay with large boulders
- PE — Pungaere gravelly friable clay
- TUH, TU — Takitu gravelly clay loam
- BMH, BM — Bream clay loam
- KTH, KT — Katui clay loam
- WTH, WT — Whatoro clay
- TMH, TM — Taumata clay loam
- ATH, AT — Apotu friable clay
- MCH, MC — Matarau friable clay
- MCb — Matarau friable clay with large boulders
- TG — Tikipunga friable clay

Soils of the Rolling and Hilly Land (cont.)

well to moderately well drained (cont.)

- MNH, MN — Mangonui clay
- YNH, YN — Waimatenui clay
- C5H, C5 — Haunga complex
- YTH, YT — Waitakere clay
- YPH, YP — Waipoua clay
- PU — Purua silt loam
- PUeH — Purua clay loam
- TNH, TN — Tanoa sandy clay loam
- TNaH, TNa — Tanoa sandy loam and sandy clay loam
- MRrH, MRr — Marua brown clay loam
- MRH, MR — Marua clay loam
- MRuH, MRu — Marua light brown clay loam
- AEH, AE — Autea clay loam and silty clay loam
- WRH, WR — Whangaripo clay loam
- AW — Awarua clay
- HUH, HU — Hunoke stony clay loam
- PAH, PA — Parau clay loam
- DVH, DV — Dome valley clay
- RUrH, RUr — Rangiuru reddish brown clay
- RUH, RU — Rangiuru clay
- AKH, AK — Awapuku clay loam
- AR — Aranga clay
- CWH, CW — Waimamaku bouldery complex
- TO — Tutamoe friable clay
- Pokapu gravelly silt loam
- WNH, WN — Whirinaki clay loam
- MEH, ME — Maungarei clay
- MEbH — Maungarei clay with large boulders
- ONH, ON — Omanaia clay loam
- PVH, PV — Puketurua sandy clay
- WCeH — Waiotira gravelly sandy loam
- YCH, YC — Waiotira clay loam
- OFH, OF — Omahuta clay
- OMH, OM — Omu clay loam
- KUH — Kumurau sandy loam
- OVH, OV — Omaiko gravelly silt loam
- WAH, WA — Warkworth clay and sandy clay loam

imperfectly to very poorly drained

- TWH — Tokawhero stony clay
- CWH, CW — Cornwallis clay
- CB — Onetai complex
- WReH, WRe — Whangaripo clay
- OCH, OC — Otangaroa clay and sandy clay loam
- ODH, OD — Otaha clay
- ODG — Otaha gravelly clay loam
- YCrH, YCr — Waiotira brown clay loam
- YCeH, YCe — Waiotira clay
- AEeH, AEe — Autea clay
- KNH, KN — Konoti clay loam
- KNrH, KNr — Konoti clay
- APH, AP — Aponga clay
- RAH, RA — Rangiora clay, clay loam and silty clay loam
- RAIH, RAI — Rangiora silty clay loam
- RPH, RP — Riponui clay and sandy clay
- RPaH, RPa — Riponui sandy clay loam and sandy loam
- AYH, AY — Awanui clay and sandy clay
- AYfH, AYf — Awanui fine sandy loam and sandy clay
- YR — Wairiki clay loam and silt loam
- PXH, PX — Puwera clay
- MA — Mata clay
- MAr — Mata brownish clay
- PDH, PD — Puketitoi sandy loam
- OU — Oturu fine sandy loam
- MVH, MV — Mahurangi fine sandy loam
- HI — Hihi clay
- Hihi gravelly clay
- WBH, WB — Whaka clay loam
- PBH, PB — Puhoi clay loam

Soils of the Rolling and Hilly Land (cont.)

imperfectly to very poorly drained (cont.)

- PBuH, PBu — Puhoi light brown clay loam
- ONe — Omanaia clay loam with coarse-structured subsoil
- TFH, TF — Te Tio clay loam
- MXH, MX — Mount Rex clay
- KWH, KW — Kapowairua clay and silty clay
- OAH, OA — Okaka clay and silty clay
- PFH, PF — Piroa clay
- PWH, PW — Pukewaenga sandy loam
- HWH, HW — Hurewai fine sandy loam
- OPH, OP — Otaika silt loam
- YKi — Waikare silty clay
- YKH, YK — Waikare silt loam
- TP — Tinopai sandy loam and sandy clay
- PL — Parakao fine sandy loam
- OVg — Omaiko gravely silt loam with pan
- HKgH, HKg — Hukerenui gravelly silt loam
- HKaH, HKa — Hukerenui sandy loam
- HKfH, HKf — Hukerenui fine sandy loam
- HKH, HK — Hukerenui silt loam
- HKrH, HKr — Hukerenui silt loam with yellow subsoil
- PMH, PM — Pukenamu silt loam
- MTH, MT — Motatau clay
- C4 — Dairy Flat - Motatau - Waikare - Wharekohe - Otao complex[3]
- RV — Rockvale clay
- RVe — Rockvale clay with coarse - structured subsoil
- WKaH, WKa — Wharekohe sandy loam
- WKap — Wharekohe sandy loam with pan
- WKI — Wharekohe fine sandy loam, ash variant
- WKIp — Wharekohe fine sandy loam with pan, ash variant
- WKf — Wharekohe fine sandy loam
- WKfp — Wharekohe fine sandy loam with pan
- WKu — Wharekohe silt loam with brown subsoil
- WKH, WK — Wharekohe silt loam
- WKp — Wharekohe silt loam with pan
- PR — Parahaki fine sandy loam and silt loam
- PRp — Parahaki fine sandy loam and silt loam with pan
- DF — Dairy Flat clay
- MO — Maungaturoto clay
- AUH, AU — Arapohue clay
- AUd — Arapohue deep clay

Soils of the Steep Land

excessively to somewhat excessively drained

- HAIS — Huia steepland soils, stony silt loam

well to moderately well drained

- HAS — Huia steepland soils, stony clay and stony silt loam
- TES — Te Kie steepland soils, stony clay loam
- TEuS — Te Kie steepland soils, light brown stony clay loam
- TErS — Te Kie steepland soils, reddish clay loam
- ANS — Atuanui steepland soils, clay loam
- WCS — White Cone steepland soils, sandy clay loam
- TLS — Tautoro steepland soils, clay loam
- TRS — Te Ranga steepland soils, clay loam and stony clay loam
- TRuS — Te Ranga steepland soils, light brown clay loam and stony clay loam
- PES — Parakiore steepland soils, stony clay loam

imperfectly to very poorly drained

- POS — Pukekaroro steepland soils, clay loam

B. Legend of soil taxonomic units arranged pedologically°

Yellow-brown earths and related steepland soils

weakly to moderately leached

- (WB) Whaka series
- (PB) Puhoi series
- (TM) Taumata series
- (WN) Whirinaki series
- (ON) Omanaia series
- (TF) Te Tio series
- (AN) Atuanui series

moderately to strongly leached

- (WO) Whareora series
- (WR) Whangaripo series
- (OF) Omahuta series
- (AE) Autea series
- (YC) Waiotira series
- (OM) Omu series
- (AP) Aponga series
- (PU) Purua series
- (TN) Tanoa series
- (MR) Marua series
- (TV) Tikitohe series
- (ME) Maungarei series
- (KU) Kumurau series
- (WC) White Cone series
- (TL) Tautoro series
- (TR) Te Ranga series
- (PE) Parakiore series

strongly leached to weakly podzolised

- (WU) Waipuna series
- (RV) Rockvale series
- (MX) Mount Rex series
- (WA) Warkworth series
- (AY) Awanui series
- (KW) Kapowairua series
- (YT) Wairiki series
- (RP) Riponui series
- (PV) Puketurua series
- (MA) Mata series
- (OA) Okaka series
- (PX) Puwera series
- (PP) Pokapu series
- (RA) Rangiora series
- (PF) Piroa series
- (PO) Pukekaroro series

Podzolised yellow-brown earths

weakly to moderately podzolised

- (AB) Albany series
- (TT) Tangitiki series
- (MV) Mahurangi series
- (OU) Oturu series
- (HW) Hurewai series
- (PD) Puketitoi series
- (PW) Pukewaenga series
- (YK) Waikare series
- (OP) Otaika series
- (OC) Otangaroa series

moderately podzolised

- (CV) Coatesville series
- (HK) Hukerenui series
- (OV) Omaiko series
- (PM) Pukenamu series

Podzols

- (KR) Kara series
- (TX) Te Hapua series
- (TEK) Te Kopuru series
- (WK) Wharekohe series
- (PR) Parahaki series

Rendzinas and associated soils

- (AU) Arapohue series
- (MT) Motatau series
- (DF) Dairy Flat series
- (MO) Maungaturoto series
- (KN) Konoti series

Yellow-brown sands

weakly weathered

weakly to moderately leached

- (PN) Pinaki series
- (MD) Marsden series
- (WD) Whananaki series

strongly leached to podzolised

- (OE) Ohia series

moderately weathered

moderately to strongly leached

- (HO) Houhora series
- (RL) Red Hill series

Yellow-brown loams and podzolised yellow-brown loams

strongly leached

- (OL) Otao series

weakly podzolised

- (WE) Waitemata series

Brown granular loams and clays and related steepland soils

weakly to moderately leached

- (TU) Takitu series
- (TW) Tokawhero series
- (AK) Awapuku series
- (CS) Haunga complex (dominant series only)
- (HU) Hunoke series
- (BM) Bream series
- (KT) Katui series
- (TE) Te Kie series
- (HA) Huia series

moderately to strongly leached

- (KM) Kohumaru series
- (HV) Hobsonville series
- (YN) Waimatenui series
- (MN) Mangonui series
- (PT) Paratai series
- (DV) Dome Valley series
- (PA) Parau series
- (YT) Waitakere series
- (YP) Waipoua series
- (WT) Whatoro series
- (TO) Tutamoe series
- (CB) Onetai complex (dominant series only)
- (CG) Waimamaku bouldery complex (dominant series only)

strongly to very strongly leached

- (PC) Pakotai series
- (RU) Rangiuru series

Brown granular loams and clays and related steepland soils (cont.)

strongly to very strongly leached (cont.)

- (AW) Awarua series
- (CW) Cornwallis series
- (HI) Hihi series
- (AR) Aranga series

Podzlised brown granular clays

moderately to strongly podzolised

- (TP) Tinopai series
- (PL) Parakao series

Red loams

weakly to moderately leached

- (PK) Papakauri series

moderately to strongly leached

- (MZ) Manganese series
- (MG) Maungakohatu series
- (MU) Maunu series
- (WM) Waimate North series
- (AT) Apotu series

Brown loams

weakly to moderately leached

- (KB) Kiripaka series
- (OW) Ohaeawai series
- (WG) Whatitiri series
- (WP) Whakapai series

moderately to strongly leached

- (YO) Waiotu series
- (MC) Matarau series
- (TG) Tikipunga series
- (KE) Kerikeri series
- (RT) Ruatangata series
- (PG) Pungaere series

strongly to very strongly leached

- (OD) Otaha series
- (TA) Taraire series
- (OK) Okaihau series

Gley soils

- (TZ) Tawharanui series
- (KP) Kaipara series
- (KA) Kaitaia series
- (KO) Kamo series
- (YF) Waipapa series
- (YU) Waipu series
- (YA) Wairua series

weakly saline

- (TC) Takahiwai series

podzolised

- (KK) Kaikino series
- (TEKm) Te Kopuru series, wet phase

Organic soils

- (OT) One Tree Point series
- (PZ) Parore series
- (RK) Ruakaka series
- (OG) Otonga series
- (OR) Otakairangi series

Recent soils

- (WP) Whakapara series
- (MP) Mangakahia series

°The symbols shown in the boxes in the pedological legend are the basic roots to which in many instances other letters have been added to differentiate mapping units as shown in the physiographic legend and in the suite chart.

- Drifting and/or recently stabilised sands
- Wet swamps (not investigated)
- Hill soils
- Steepland soils
- Mottled soils
- Gravelly soils
- Bouldery soils
- Stony soils

1. Complex C1 includes mapping units OL, OLm, WE, WEm, AB, CV and OGv.
2. Complex CIA includes mapping units OL, OLm, WE, WEm, HV, AB and CV.
3. Complex C4 includes mapping units DF, MT, YK, WK, OL and OLm.

Index of soils, with their position in the legends A,B,C and occurrence on the soil maps

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Soil Reference Symbol	and Series Name	A	B	C	180	181	182	183	184	185	186	187	188	189	190	220	221
AB	Albany	Z1	X5	S10													
AE	Autea	V3	V5	S3			●	●		●							
AEH	"	V3	V5	S3			●	●		●							
AEe	"	Y3	V5	S3			●			●							
AEeH	"	Y3	V5	S3			●			●							
AK	Awapuku	V3	W6	S16		●	●					●	●	●		●	
AKH	"	V3	W6	S16		●	●			●		●	●	●		●	
ANS	Atuanui	Y4	U5	S2										●	●	●	●
AP	Aponga	Y3	V5	S5			●	●		●	●	●		●	●	●	●
APH	"	Y3	V5	S5	●		●	●		●	●	●		●			●
AR	Aranga	W3	U7	S18						●	●						
AT	Apotu	Z2	V7	S20				●	●								
ATH	"	Z2	V7	S20								●					
AU	Arapohue	X4	U6	S11			●										
AUH	"	X4	U6	S11						●	●			●			
AUd	"	X4	U6	S11							●			●			
AW	Awarua	V3	U7	S16						●	●						
AY	Awanui	Y3	W5	S2			●										
AYH	"	Y3	W5	S2			●										
AYf	"	Y3	W5	S2			●										
AYfH	"	Y3	W5	S2			●										
BM	Bream	Z2	W6	S17				●									
BMH	"	Z2	W6	S17			●	●				●					
CV	Coatesville	U2	Y5	S15							●						
CW	Cornwallis	X3	U7	S17												●	●
CWH	"	X3	U7	S17												●	●
(DF)+	Dairy Flat	X4	U6	S12													
DV	Dome Valley	V3	X6	S17										●	●	●	●
DVH	" "	V3	X6	S17										●	●	●	●
HAS	Huia	Y4	X6	S17		●	●							●		●	●
HAIS	"	Y4	X6	S17		●	●							●		●	●
HI	Hihi	Z3	U7	S17	●					●							
HIg	"	Z3	U7	S17										●			
HK	Hukerenui	V4	Y5	S5			●	●		●	●	●		●			
HKH	"	V4	Y5	S5			●	●		●	●	●		●			
HKa	"	V4	Y5	S4			●	●		●		●					
HKaH	"	V4	Y5	S4			●	●		●		●					
HKf	"	V4	Y5	S2			●										
HKfH	"	V4	Y5	S2			●										
HKg	"	V4	Y5	S5			●	●				●					
HKgH	"	V4	Y5	S5			●	●				●		●			
HKr	"	V4	Y5	S7			●	●						●			
HKrH	"	V4	Y5	S7			●	●						●			
HO	Houhora	W1	V6	S14	●	●											
HOH	"	W1	V6	S14	●	●											
HU	Hunoke	V3	W6	S17						●	●						
HUH	"	V3	W6	S17						●	●						
(HV)+	Hobsonville	Y1	X6	S15													
HW	Hurewai	V4	Y5	S3	●												
HWH	"	V4	Y5	S3	●												
KA	Kaitaia	V1	X7	S27		●	●										
KAy	"	V1	X7	S27		●	●										
KB	Kiripaka	X2	V7	S23				●			●			●			
KBH	"	X2	V7	S23							●			●			
KBb	"	X2	V7	S23							●			●			
KBe	"	X2	V7	S23				●			●			●			
KBeb	"	X2	V7	S23							●			●			
KE	Kerikeri	X2	W7	S23				●									
KEb	"	X2	W7	S23				●									
KK	Kaikino	V1	X7	S28		●	●										
KM	Kohumaru	Y1	X6	S19		●	●			●	●	●					
KMm	"	Z1	X6	S19		●	●										
KN	Konoti	Y3	V6	S13			●					●		●	●	●	
KNH	"	Y3	V6	S13			●					●		●	●	●	
KNr	"	Y3	V6	S13			●					●		●	●	●	
KNrH	"	Y3	V6	S13			●					●		●	●	●	
KO	Kamo	Z1	X7	S26						●							
KOI	"	U2	X7	S26						●							
KOr	"	Y1	X7	S26								●					
KOy	"	U2	X7	S26								●					
KP	Kaipara	V1	X7	S27			●					●		●	●	●	
KPy	"	V1	X7	S27			●					●		●	●	●	
KR	Kara	V2	U6	S10	●		●	●	●	●		●		●	●	●	
KRa	"	U2	U6	S10	●		●	●	●	●		●		●	●	●	
KRap	"	U2	U6	S10				●				●					
KRe	"	V2	U6	S10			●			●		●		●	●	●	
KRp	"	V2	U6	S10			●			●		●		●	●	●	
KRy	"	V2	U6	S10			●			●		●		●	●	●	
KT	Katui	Z2	X6	S18						●							
KTH	"	Z2	X6	S18						●							
KUH	Kumurau	X3	V5	S9						●							
KW	Kapowairua	U4	W5	S3	●												
KWH	"	U4	W5	S3	●												
MA	Mata	Z3	X5	S5						●							
MAr	"	Z3	X5	S5						●							
MC	Matarau	Z2	W7	S23						●							
MCH	"	Z2	W7	S23						●							
MCb	"	Z2	W7	S23						●							
MD	Marsden	W1	V6	S14						●							
MDH	"	W1	V6	S14						●							
ME	Maungarei	W3	V5	S9						●							
MEH	"	W3	V5	S9						●							
MEbH	"	W3	V5	S9						●							
MF	Mangakahia	U1	Y7	S19		●	●		●	●		●					
MFm	"	U1	Y7	S19		●	●		●	●		●					
MG	Maungakohatu	X2	V7	S22						●							

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NZMS 290 Sheet No. — Soil Bureau Map No.

Soil Reference Symbol	and Series Name	A	B	C	180	181	182	183	184	185	186	187	188	189	190	220	221
MGH	Maungakohatu	X2	V7	S22								●					
MN	Mangonui	U3	X6	S16	●	●	●	●			●						
MNH	"	U3	X6	S16	●	●	●	●			●						
MO	Maungaturoto	X4	V6	S12										●	●		
MR	Marua	V3	V5	S7				●	●			●		●	●		
MRH	"	V3	V5	S7				●	●			●		●	●		
MRr	"	V3	V5	S7				●	●			●					
MRrH	"	V3	V5	S7				●	●			●					
MRu	"	V3	V5	S7				●	●			●					
MRuH	"	V3	V5	S7				●	●		●	●		●			
MT	Motatau	W4	U6	S11				●			●	●		●	●	●	
MTH	"	W4	U6	S11				●			●	●		●			
MU	Maunu	W2	V7	S20								●					
MUH	"	W2	V7	S20								●					
MUb	"	W2	V7	S20								●					
MV	Mahurangi	Z3	X5	S2										●	●	●	●
MVH	"	Z3	X5	S2								●		●	●	●	●
MX	Mount Rex	U4	W5	S2												●	
MXH	" "	U4	W5	S2					●								
MZ	Manganese	X2	V7	S21					●			●					
MZH	"	X2	V7	S21					●			●					
OA	Okaka	U4	X5	S5	●		●	●	●	●	●	●	●	●	●	●	
OAH	"	U4	X5	S5	●		●	●		●	●	●	●	●	●	●	
OC	Otangaroa	X3	Y5	S6			●	●									
OCH	"	X3	Y5	S6				●									
OD	Otaha	X3	W7	S23				●				●					
ODH	"	X3	W7	S23				●				●					
ODg	"	X3	W7	S23				●				●					
OE	Ohia	W1	V6	S14	●		●										
OEy	"	X1	V6	S14													
OF	Omahuta	W3	V5	S2				●									
OFH	"	W3	V5	S2				●									
OG	Otonga	V2	Y7	S25						●	●	●	●	●	●	●	
OGd	"	V2	Y7	S25						●	●	●	●	●	●	●	
OGv	"	V2	Y7	S25												●	
OK	Okaihau	Y2	W7	S23				●									
OKg	"	W2	W7	S23				●									
OKu	"	Y2	W7	S23				●									
OL	Otao	Y1	W6	S15													
(OLm)+	"	Z1	W6	S15													
OM	Omu	W3	V5	S5								●		●	●	●	
OMH	"	W3	V5	S5								●		●	●	●	
ON	Omanaia	W3	U5	S3				●									
ONH	"	W3	U5	S3				●									
ONe	"	U4	U5	S3				●									
OP	Otaika	V4	Y5	S5				●									
OPH	"	V4	Y5	S5				●									
OR	Otakairangi	V2	Y7	S25				●									
ORd	"	V2	Y7	S25				●									
OT	One Tree Point	X1	Y7	S24													
OU	Oturu	Z3	Y5	S2				●									
OV	Omaiko	X3	Y5	S8				●									
OVH	"	X3	Y5	S8				●									
OVp	"	V4	Y5	S8				●									
OW	Ohaeawai	W2	V7	S23				●									
OWb	"	X2	V7	S23				●									
PA	Parau	V3	X6	S17													
PAH	"	V3	X6	S17													
PB	Puhoi	Z3	U5	S2													
PBH	"	Z3	U5	S2													
PBu	"	U4	U5	S2													
PBuH	"	U4	U5	S2													
PC	Pakotai	Z1	Y6	S19													
PCm	"	Z1	Y6	S19													
PCr	"	Y1	Y6	S19													
PCy	"	Z1	Y6	S19													
PD	Puketitoi	Z3	Y5	S4													
PDH	"	Z3	Y5	S4													
PES	Parakiore	Z4	W5	S9													
PF	Piroa	U4	X5	S9													
PFH	"	U4	X5	S9													
PG	Pungaere	Y2	W7	S23													
PK	Papakauri	W2	V7	S20													
PKH	"	W2	V7	S20													
PKe	"	W2	V7	S20													
PKeH	"	W2	V7	S20													
PL	Parakao	V4	U7	S19													
PM	Pukenamu	W4	Y5	S9													
PMH	"	W4	Y5	S9													
PN	Pinaki	W1	V6	S14													
PNH	"	W1	V6	S14													
POS	Pukekaroro	Z4	X5	S9													
PPH	Pokapu	W3	X5	S5													
PR	Parahaki	X4	U6	S9													
PRp	"	X4	U6	S9													
PTH	Parataiko	X2	X6	S17													
PU	Purua	U3	V5	S6													
PUeH	"	U3	V5	S6													
PV	Puketurua	W3	X5	S4													
PVH	"	W3	X5	S4													
PW	Pukewaenga	V4	Y5	S4													
PWH	"	V4	Y5	S4													
PX	Puwera	Z3	X5	S5													
PXH	"	Z3	X5	S5													
PZ	Parore	X1	Y7	S24													
RA	Rangiora	Y3	X5	S7													
RAH	"	Y3	X5	S7													
RAI	"	Y3	X5	S7													
RAIH	"	Y3	X5	S7													

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RK	Ruakaka	X1	Y7	S24	●	●	●				●			●		●	●
RKd	"	X1	Y7	S24	●		●				●			●			
RKI	"	X1	Y7	S24	●		●										
RKu	"	X1	Y7	S24													
RKv	"	X1	Y7	S24	●		●										
RL	Red Hill	W1	V6	S14								●	●	●	●		
RLH	" "	W1	V6	S14								●	●	●	●		
RLa	" "	W1	V6	S14					●	●	●	●	●				
RLaH	" "	W1	V6	S14					●			●					
RLI	" "	W1	V6	S14	●						●				●		
RLIH	" "	W1	V6	S14							●				●		
RP	Riponui	Y3	W5	S4		●	●	●		●	●	●	●				
RPH	"	Y3	W5	S4			●	●		●	●	●	●				
RPa	"	Y3	W5	S4		●	●	●		●	●	●	●				
RPaH	"	Y3	W5	S4			●	●			●						
RT	Ruatangata	Y2	W7	S23		