Notes for track changes. Recommendations made by the Water officer in the supplementary report are shown in Red. Sentences shown in ~~black~~ strikethrough or are recommended within the officer's report to be relocated to other parts of the document, those sentences that have been relocated are shown in black underline. Words recommended to be added are shown in underline, words recommended to be removed are shown in ~~strike through~~

Terms defined within the Proposed One Plan Glossary are i*talicised* and marked with an asterisk (*) symbol. Terms defined in the Resource Management Act 1991 are i*talicised* and marked with a caret (^) symbol.

Schedule B: Surface Water Quantity

USER GUIDE: How to use the contents of this schedule
Step 1: Identify which *Water Management Sub-zone*^ your proposed abstraction lies in (go to Part 1 of Schedule Ba)
Step 2: Refer to Table B1 to identify which core allocation limits and minimum flows apply to your *Water Management Sub-zone*^

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^

Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
Upper Manawatu (Mana_1)	Upper Manawatu (Mana_1a)	~~Mana 1a~~	1.600	Manawatu at Weber Rd	~~U23:751 027~~ U23:751-027	~~0.204~~ ~~0.205~~ 17,712
	Mangatewainui (Mana_1b)	~~Mana 1b~~	1.600	Manawatu at Weber Rd	~~U23: 751 027~~ U23:751-027	~~0.063~~ ~~0.065~~ 5,616
	Mangatoro (Mana_1c)	~~Mana 1c~~	~~0.702~~ 0.700	Mangatoro at Mangahei Rd	~~U23: 813 019~~ U23:813-019	~~0.204~~ ~~0.120~~ 10,368
Whole ~~z~~Zone (Mana_1)						~~0.204~~ ~~0.205~~ 17,172
Weber-Tamaki (Mana_2)	Weber-Tamaki (Mana_2a)	~~Mana 2a~~	1.600	Manawatu at Weber Rd	~~U23: 751 027~~ U23:751-027	~~0.251~~ ~~0.250~~ 21,600
	Mangatera (Mana_2b)	~~Mana 2b~~	1.600	Manawatu at Weber Rd	~~U23: 751 027~~ U23:751-027	~~0.047~~ ~~0.045~~ 3,888
Catchment cumulative allocable volume (Mana_1 + Mana_2)						~~*0.251*~~ ~~*0.250*~~ *21,600*
Upper Tamaki (Mana_3)	Upper Tamaki (Mana_3)	~~Mana 3~~	~~0.238~~ 0.240	Tamaki at Water Supply Weir	~~U23: 709 111~~ U23:709-111	~~0.078~~ ~~0.080~~ 6,912
Upper Kumeti (Mana_4)	Upper Kumeti (Mana_4)	~~Mana 4~~	0.055	Kumeti at Te Rehunga	~~T23: 663 052~~ T23:663-052	~~0.005~~ ~~0.010~~ 864
Tamaki-Hopelands (Mana_5)	Tamaki-Hopelands (Mana_5a)	~~Mana 5a~~	2.980	Manawatu at Hopelands	~~T24: 616 899~~ T24:616-899	~~0.971~~ ~~0.970~~ 83,808

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^

Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m³/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m³/s)~~ (m³/day)
	Lower Tamaki (Mana_5b)	~~Mana 5b~~	0.360	Tamaki at Stephensons	~~U23: 707 022~~ U23:707-022	~~0.138~~ ~~0.140~~ 12,096
	Cumulative allocable volume (Mana_3 + Mana_5b)					~~0.140~~ 12,096
	Lower Kumeti (Mana_5c)	~~Mana 5c~~	~~0.055~~ 2.980	~~Kumeti at Te Rehunga~~ Manawatu at Hopelands	~~T23: 663 052~~ T23:663-052	~~0.059~~ ~~0.060~~ 5,184
	Cumulative allocable volume (Mana_4 + Mana_5c)					~~0.060~~ 5,184
	Oruakeretaki (Mana_5d)	~~Mana 5d~~	~~0.293~~ 0.208	Oruakeretaki at S.H.2 Napier	~~T23: 679 014~~ T23:679-014	~~0.105~~ ~~0.158~~13,651
	Raparapawai (Mana_5e)	~~Mana 5e~~	~~0.074~~ 0.035	Raparapawai at Jacksons Rd	~~T24: 645 938~~ T24:645-938	~~0.024~~ ~~0.015~~1,296
Catchment cumulative allocable volume (Mana_1 + Mana_2 + Mana_3 + Mana_4 + Mana_5)						~~0.971~~ ~~0.970~~ *83,808*
Hopelands-Tiraumea (Mana_6)	Hopelands-Tiraumea (Mana_6)	~~Mana 6~~	2.980	Manawatu at Hopelands	~~T24: 616 899~~ T24:616-899	~~1.049~~ ~~1.050~~ 90,720
Catchment cumulative allocable volume (Mana_1 + Mana_2 + Mana_3 + Mana_4 + Mana_5 + Mana_6)						~~1.049~~ ~~1.050~~ *90,720*
Tiraumea (Mana_7)	Upper Tiraumea (Mana_7a)	~~Mana 7a~~	~~2.140~~ 2.040	Tiraumea at Ngaturi	~~T24: 578 780~~ T24:578-780	~~0.475~~ ~~0.040~~ 3,456
	Lower Tiraumea (Mana_7b)	~~Mana 7b~~	~~2.140~~ 2.040	Tiraumea at Ngaturi	~~T24: 578 780~~ T24:578-780	~~0.550~~ ~~0.270~~ 23,328
	Mangaone River (Mana_7c)	~~Mana 7c~~	~~MALF~~ 2.040	Tiraumea at Ngaturi	T24:578-780	~~MALF~~ ~~0.020~~ 1,728
	Makuri (Mana_7d)	~~Mana 7d~~	~~2.160~~ 1.700	Makuri at Tuscan Hills	~~T24: 583 717~~ T24:583-717	~~0.108~~ ~~0.100~~ 8,640
	Cumulative allocable volume (Mana_7a + Mana_7c + Mana_7d)					~~0.100~~ 8,640
	Mangaramarama (Mana_7e)		2.040	Tiraumea at Ngaturi	T24:578-780	~~0.025~~ 2,160
Whole ~~z~~Zone (Mana_7)						~~0.550~~ ~~0.270~~ 23,328
Mangatainoka (Mana_8)	Upper Mangatainoka (Mana_8a)	~~Mana 8a~~	~~0.400~~ 0.370	Mangatainoka at Larsons Road	~~T25: 308 596~~ T25:308-596	~~0.060~~ ~~0.020~~ 1,728

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^

Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
	Middle Mangatainoka (Mana_8b)	~~Mana 8b~~	~~1.580~~ 1.305	Mangatainoka at Pahiatua Town Bridge	~~T24: 501 802~~ T24:501-802	~~0.105~~ ~~0.060~~ 5,184
	Lower Mangatainoka (Mana_8c)	~~Mana 8c~~	~~1.580~~ 1.305	Mangatainoka at Pahiatua Town Bridge	~~T24: 501 802~~ T24:501-802	~~0.289~~ ~~0.305~~ 26,352
	Makakahi (Mana_8d)	~~Mana 8d~~	~~0.345~~ 0.320	Makakahi at Hamua	~~T25: 424 676~~ T25:424-676	~~0.052~~ ~~0.015~~ 1,296
	Cumulative allocable volume (Mana_8a + Mana_8b + Mana_8d)					~~0.060~~ 5,184
	~~Mangaramarama~~	~~Mana 8e~~	~~1.580~~	~~Mangatainoka at Pahiatua Town Bridge~~	~~T24: 501 802~~ T24:501-802	~~0.009~~
Whole ~~z~~Zone (Mana_8)						~~0.289~~ ~~0.305~~ 26,352
Catchment cumulative allocable volume ~~(Mana_7 + Mana_8)~~ Mangatainoka and Tiraumea ~~(~~Mana_7 + Mana_8)						~~*0.839*~~ ~~*0.575*~~ *49,680*
Upper Gorge (Mana_9)	Upper Gorge (Mana_9a)	~~Mana 9a~~	~~10.530~~ 9.175	Manawatu at Upper Gorge	~~T24: 494 933~~ T24:494-933	~~2.340~~ ~~2.295~~ 198,288
	Mangapapa (Mana_9b)	~~Mana 9b~~	~~0.023~~ 0.035	Mangapapa at Troup Road	~~T24: 520 922~~ T24:520-922	~~0.015~~ 1,296
	Mangaatua (Mana_9c)	~~Mana 9c~~	~~MALF~~ 0.070	Mangaatua at Hutchinsons	T24:581-932	~~20% of MALF~~ ~~0.005~~ 432
	Upper Mangahao (Mana_9d)	~~Mana 9d~~	~~MALF~~ 1.415	Mangahao at Ballance	T24:468-818	~~20% of MALF~~ ~~0.085~~ 7,344
	Lower Mangahao (Mana_9e)	~~Mana 9e~~	~~MALF~~ 1.415	Mangahao at Ballance	T24:468-818	~~20% of MALF~~ ~~0.085~~ 7,344
	Cumulative allocable volume (Mana_9d + Mana_9e)					~~0.085~~ 7,344
Whole Zone (Mana_9)						~~2.295~~ 198,288
Catchment cumulative allocable volume (Mana_1 + Mana_2 + Mana_3 + Mana_4 + Mana_5 + Mana_6 + Mana_7 + Mana_8 + Mana_9)						~~*2.340*~~ ~~*2.295*~~ *198,288*
Middle Manawatu (Mana_10)	Middle Manawatu (Mana_10a)	~~Mana 10a~~	~~14.160~~ 12.240	Manawatu at Teachers College	~~T24: 331 892~~ T24:331-892	~~3.150~~ ~~3.060~~ 264,384
	Upper Pohangina (Mana_10b)	~~Mana 10b~~	~~MALF~~ 1.960	Pohangina at Mais Reach	~~T23: 467 053~~ T23:467-053	~~20% of MALF~~ ~~0.115~~ 9,936

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^						
Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
	Middle Pohangina (Mana_10c)	~~Mana 10c~~	1.960	Pohangina at Mais Reach	~~T23: 467-053~~ T23:467-053	~~0.460~~ ~~0.455~~ 39,312
	Cumulative allocable volume (Mana_10b + Mana_10c)					~~0.455~~ 39,312
	Lower Pohangina (Mana_10d)	~~Mana 10d~~	1.960	Pohangina at Mais Reach	~~T23: 467-053~~ T23:467-053	~~0.525~~ ~~0.455~~ 39,312
	Cumulative allocable volume (Mana_10b + Mana_10c + Mana_10d)					~~0.455~~ 39,312
	Aokautere (Mana_10e)	~~Mana 10e~~	~~MALF~~ 12.240	Manawatu at Teachers College	T24:331-892	~~20% of MALF~~ ~~0.005~~ 432
Whole Zone (Mana_10)						~~3.060~~ 264,384
Catchment cumulative allocable volume (Mana_1 + Mana_2 + Mana_3 + Mana_4 + Mana_5 + Mana_6 + Mana_7 + Mana_8 + Mana_9 + Mana_10)						~~*3.150*~~ ~~*3.060*~~ *264,384*
Lower Manawatu (Mana_11)	Lower Manawatu (Mana_11a)	~~Mana 11a~~	~~14.160~~ 12.240	Manawatu at Teachers College	~~T24: 331 892~~ T24:331-892	~~3.180~~ ~~3.890~~ 336,096
	Turitea (Mana_11b)	~~Mana 11b~~	~~0.050~~ 0.041	Turitea at Ngahere Park	~~T24: 354 852~~ T24:354-852	~~0.264~~ ~~0.265~~ 37,000
	Kahuterawa (Mana_11c)	~~Mana 11c~~	~~MALF~~ 0.180	Kahuterawa at Johnsons Rata	T24:323-808	~~20% of MALF~~ ~~0.010~~ 864
	Upper Mangaone Stream (Mana_11d)	~~Mana 11d~~	~~MALF~~ 0.035	Mangaone at Milson Line	T24:311-953	~~20% of MALF~~ ~~0.005~~ 432
	Lower Mangaone Stream (Mana_11e)	~~Mana 11e~~	~~MALF~~ 0.035	Mangaone at Milson Line	T24:311-953	~~20% of MALF~~ ~~0.010~~ 864
	Cumulative allocable volume (Mana_11d + Mana_11e)					~~0.015~~ 1,296
	Main Drain (Mana_11f)	~~Mana 11f~~	12.240	Manawatu at Teachers College		~~20~~10% of *MALF**
Whole Zone (Mana_11)						~~3.890~~ 336,096
Catchment cumulative allocable volume (Mana_1 + Mana_2 + Mana_3 + Mana_4 + Mana_5 + Mana_6 + Mana_7 + Mana_8 + Mana_9 + Mana_10 + Mana_11)						~~*3.180*~~ ~~*3.890*~~ *336,096*

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^

Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
Oroua (Mana_12)	Upper Oroua (Mana_12a)	~~Mana 12a~~	~~1.050~~ 1.005	~~Oroua at Kawa Wool~~ Oroua at Almadale	~~S23: 287 038~~ T23:365-113	~~0.405~~ ~~0.395~~ 34,128
	Middle Oroua (Mana_12b)	~~Mana 12b~~	~~1.050~~ 1.030	Oroua at Kawa Wool	~~S23: 287 038~~ S23:287-038	~~0.429~~ ~~0.405~~ 34,992
	Lower Oroua (Mana_12c)	~~Mana 12c~~	~~1.050~~ 0.070	~~Oroua at Kawa Wool~~ Oroua at Awahuri Bridge	~~S23: 287 038~~ S23:243-002	~~0.530~~ ~~0.430~~ 37,152
	Cumulative allocable volume (Mana_12a + Mana_12b + Mana_12c)					~~0.430~~ 37,152
	Kiwitea (Mana_12d)	~~Mana 12d~~	~~0.145~~ 0.150	Kiwitea at Haynes Line	~~T23: 366 207~~ T23:366-207	~~0.048~~ ~~0.015~~ 1,296
	Makino (Mana_12e)	~~Mana 12e~~	~~0.080~~ 0.075	Makino at Boness Road	~~S23: 254 023~~ S23:254-023	~~0.025~~ ~~0.015~~ 1,296
~~*Cumulative allocable volume*~~ Whole Zone (Mana_12)						~~0.530~~ ~~0.430~~ 37,152
Catchment cumulative allocable volume (Mana_1 + Mana_2 + Mana_3 + Mana_4 + Mana_5 + Mana_6 + Mana_7 + Mana_8 + Mana_9 + Mana_10 + Mana_11 + Mana_12)						~~*3.710*~~ ~~*4.320*~~ *373,248*
Coastal Manawatu (Mana_13)	Coastal Manawatu (Mana_13a)	~~Mana 13a~~	~~12.588~~ 12.240	Manawatu at Teachers College	~~T24: 331 892~~ T24:331-892	~~5.300~~ ~~6.930~~ 598,752
	Upper Tokomaru (Mana_13b)	~~Mana 13b~~	~~0.220~~ 0.240	~~Tokomaru at Horseshoe Bend~~ Tokomaru at Riverland Farm	~~S24: 241 768~~ S24:218-772	~~0.050~~ ~~0.015~~ 1,296
	Lower Tokomaru (Mana_13c)	~~Mana 13c~~	~~MALF~~ 0.240	Tokomaru at Riverland Farm	S24:218-772	~~20% of MALF~~ ~~0.170~~ 14,688
	Cumulative allocable volume (Mana_13b + Mana_13c)					~~0.170~~ 14,688
	Mangaore (Mana_13d)	~~Mana 13d~~	MALF	Mangaore at d/s Mangahao Power Station	S25:173-670	~~20~~10% of MALF
	Koputaroa (Mana_13e)	~~Mana 13e~~	~~MALF~~ 12.240	Manawatu at Teachers College	T24:331-892	~~20% of MALF~~ ~~0.005~~ 432
	Foxton Loop (Mana_13f)	~~Mana 13f~~	~~MALF~~ Rule 15-5 applies			~~20% of MALF~~ Rule 15-5 applies
Whole Zone (Mana_13)						~~6.930~~ 598,752
Catchment cumulative allocable volume (Mana_1 + Mana_2 + Mana_3 + Mana_4 + Mana_5 + Mana_6 + Mana_7 + Mana_8 + Mana_9 + Mana_10 + Mana_11 + Mana_12 + Mana_13)						~~*5.300*~~ ~~*6.930*~~ *598,752*

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^

Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
Upper Rangitikei (Rang_1)	Upper Rangitikei (Rang_1)	~~Rang 1~~	N/A			~~0.000~~ 0
Middle Rangitikei (Rang_2)	Middle Rangitikei (Rang_2a)	~~Rang 2a~~	~~5.250~~ 5.000	Rangitikei at Pukeokahu	~~U21: 713 708~~ U21:713-708	0.260 ~~0.250~~ 21,600
	~~Pukeohahu~~ Pukeokahu-Mangaweka (Rang_2b)	~~Rang 2b~~	~~12.790~~ 12.250	Rangitikei at Mangaweka	~~T22: 504 513~~ T22:504-513	0.670 ~~0.610~~ 52,704
	Cumulative allocable volume (Rang_2a + Rang_2b)					~~0.610~~ 52,704
	Upper Moawhango (Rang_2c)	~~Rang 2c~~	0.600	Moawhango at Waiouru	T21:557-745	~~0.000~~ 0
	Middle Moawhango (Rang_2d)	~~Rang 2d~~	0.600	Moawhango at Waiouru	T21:557-745	~~0.000~~ 0
	Lower Moawhango (Rang_2e)	~~Rang 2e~~	~~MALF~~ 0.600	~~Moawhango at Moawhango~~ Moawhango at Waiouru	T21:557-745	~~5% of MALF~~ ~~0.000~~ 0
	Upper Hautapu (Rang_2f)	~~Rang 2f~~	~~0.745~~ 0.640	Hautapu at Alabasters	~~T21: 486 683~~ T21:486-683	0.112 ~~0.115~~ 9,936
	Lower Hautapu (Rang_2g)	~~Rang 2g~~	~~0.670~~ 0.640	Hautapu at Alabasters	~~T21: 486 683~~ T21:486-683	~~0.150~~ 12,960
	Cumulative allocable volume (Rang_2f+ Rang_2g)					~~0.150~~ 12,960
Whole Zone (Rang_2)						~~0.610~~ 52,704
Catchment cumulative allocable volume (Rang_1 + Rang_2)						~~*0.670*~~ ~~*0.610*~~ *52,704*
Lower Rangitikei (Rang_3)	Lower Rangitikei (Rang_3a)	~~Rang 3a~~	~~14.550~~ 12.100	Rangitikei at Onepuhi	~~S23: 201 222~~ S23:201-222	~~1.510~~ ~~1.640~~ 141,696
	Makohine (Rang_3b	~~Rang 3b~~	~~0.036~~ 0.040	Makohine at Viaduct	~~T22: 395 450~~ T22:395-450	0.008 ~~0.010~~ 864
Whole Zone (Rang_3)						~~1.640~~ 141,696
Catchment cumulative allocable volume (Rang_1 + Rang_2 + Rang_3)						~~*1.510*~~ ~~*1.640*~~ *141,696*

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^						
Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
Coastal Rangitikei (Rang_4)	Coastal Rangitikei (Rang_4a)	~~Rang 4a~~	10.230	Rangitikei at McKelvies	~~S24: 033 985~~ S24:033-985	~~6.410~~ ~~2.475~~ 213,840
	Tidal Rangitikei (Rang_4b)	~~Rang 4b~~	10.230	Rangitikei at McKelvies	~~S24: 033 985~~ S24:033-985	~~6.410~~ ~~3.300~~ 285,120
	Porewa (Rang_4c)	~~Rang 4c~~	~~MALF~~ 12.100	Rangitikei at Onepuhi	S23:201-222	~~20% of MALF~~ ~~0.000~~ 0
	Tutaenui (Rang_4d)	~~Rang 4d~~	~~MALF~~ 10.230	Rangitikei at McKelvies	S24:033-985	~~20% of MALF~~ ~~0.077~~ 6,653
Whole Zone (Rang_4)						~~3.300~~ 285,120
Catchment cumulative allocable volume (Rang_1 + Rang_2 + Rang_3 + Rang_4)						~~*6.410*~~ ~~*3.300*~~ *285,120*
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	~~Whai 1~~	~~*MALF**~~ 29.0	Whanganui at Te Maire		~~20~~10% of ~~*MALF**~~ 518
~~*Cumulative allocable volume*~~ Whole Zone (Whai_1)						~~20%of MALF of Whai_1~~ ~~10% of *MALF**~~518
Cherry Grove (Whai_2)	Cherry Grove (Whai_2a)	~~Whai 2a~~	~~*MALF**~~ 29.0	Whanganui at Te Maire		~~20~~10% of ~~*MALF**~~14,841
	Upper Whakapapa (Whai_2b)	~~Whai 2b~~	~~*MALF**~~ 29.0	Whanganui at Te Maire		~~20~~10% of ~~*MALF**~~3,937
	Lower Whakapapa (Whai_2c)	~~Whai 2c~~	~~*MALF**~~ 29.0	Whanganui at Te Maire		~~20~~10% of ~~*MALF**~~5,437
	Piopiote~~oa~~ (Whai_2d)	~~Whai 2d~~	~~*MALF**~~ 29.0	Whanganui at Te Maire		~~20~~10% of ~~*MALF**~~80
	Pungapunga (Whai_2e)	~~Whai 2e~~	~~*MALF**~~ 29.0	Whanganui at Te Maire		~~20~~10% of ~~*MALF**~~0
	Upper Ongarue (Whai_2f)	~~Whai 2f~~	~~*MALF**~~ 29.0	Whanganui at Te Maire		~~20~~10% of ~~*MALF**~~990
	Lower Ongarue (Whai_2g)	~~Whai 2g~~	~~*MALF**~~ 29.0	Whanganui at Te Maire		~~20~~10% of ~~*MALF**~~1,142
Whole Zone (Whai_2)						~~20%~~ ~~10% of *MALF**~~14,841

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^						
Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
Catchment cumulative allocable volume (Whai_1 + Whai_2)						*~~20% of MALF of the point just downstream of the Ongarue-Whanganui confluence~~ ~~10% of MALF~~14,841*
Te Maire (Whai_3)	Te Maire (Whai_3)	~~Whai 3~~	~~*MALF**~~ 29.0	Whanganui at Te Maire		20~~10% of *MALF**~~14,927
Catchment cumulative allocable volume (Whai_1 + Whai_2 + Whai_3)						~~20~~10%~~of *MALF**~~14,927
Middle Whanganui (Whai_4)	Middle Whanganui (Whai_4a)	~~Whai 4a~~	*MALF**			~~20~~10% of *MALF**
	Upper Ohura (Whai_4b)	~~Whai 4b~~	*MALF**			~~20~~10% of *MALF**
	Lower Ohura (Whai_4c)	~~Whai 4c~~	*MALF**			~~20~~10% of *MALF**
	Retaruke (Whai_4d)	~~Whai 4d~~	*MALF**			~~20~~10% of *MALF**
Whole Zone (Whai_4)						~~20~~10% of *MALF**
Catchment cumulative allocable volume (Whai_1 + Whai_2 + Whai_3 + Whai_4)						*~~20% of MALF of the point just downstream of the Ongarue-Whanganui confluence~~ 10% of MALF**
Pipiriki (Whai_5)	Pipiriki (Whai_5a)	~~Whai 5a~~	*MALF**			~~20~~10% of *MALF**
	Tangarakau (Whai_5b)	~~Whai 5b~~	*MALF**			~~20~~10% of *MALF**
	Whangamomona (Whai_5c)	~~Whai 5c~~	*MALF**			~~20~~10% of *MALF**
	Upper Manganui o te Ao (Whai_5d)	~~Whai 5d~~	N/A			~~0.000~~ 0

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^

Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
	Makatote (Whai_5e)		N/A			~~0.000~~ 0
	Waimarino (Whai_5f)		7 day *MALF**			5% of 7 day *MALF**
	Middle Manganui o te Ao (Whai_5g)		7 day *MALF**			5% of 7 day *MALF**
	Mangaturuturu (Whai_5h)		N/A			~~0.000~~ 0
	Lower Manganui o te Ao (Whai_5i)	~~Whai 5e~~	7 day *MALF**			5% of 7 day *MALF**
	Orautoha (Whai_5i)		7 day *MALF**			5% of 7 day *MALF**
Whole Zone (Whai_5)						~~*20% of MALF of Whai_5*~~ 10% of MALF
Catchment cumulative allocable volume (Whai_1 + Whai_2 + Whai_3 + Whai_4 + Whai_5)						~~*20*~~ *10% of MALF**
Paetawa (Whai_6)	Paetawa (Whai_6)	~~Whai 6~~	MALF*			~~20~~10% of MALF*
Catchment cumulative allocable volume (Whai_1 + Whai_2 + Whai_3 + Whai_4 + Whai_5 + Whai_6)						~~*20*~~*10% of MALF**
Lower Whanganui (Whai_7)	Lower Whanganui (Whai_7a)	~~Whai 7a~~	MALF*			~~20~~10% of MALF*
	Coastal Whanganui (Whai_7b)	~~Whai 7b~~	MALF*			~~20~~10% of MALF*
	Upokongaro (Whai_7c)	~~Whai 7c~~	MALF*			~~20~~10% of MALF*
	Matarawa (Whai_7d)	~~Whai 7d~~	MALF*			~~20~~10% of MALF*
Whole Zone (Whai_7)						~~20~~ 10% of *MALF**
Catchment cumulative allocable volume (Whai_1 + Whai_2 + Whai_3 + Whai_4 + Whai_5 + Whai_6 + Whai_7)						~~*20*~~*10% of MALF**

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^

Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	~~Whau 1a~~	~~9.790~~ 8.700	Whangaehu at Karioi	~~S21: 218 864~~ S21:218-864	~~2.175~~ ~~0.550~~ 47,520
	Waitangi (Whau_1b)	~~Whau 1b~~	~~0.475~~ 0.470	Waitangi at Tangiwai	~~T21: 316 886~~ T21:316-886	~~0.105~~ ~~0.110~~ 9,504
	Tokiahuru (Whau_1c)	~~Whau 1c~~	~~4.340~~ 3.840	Tokiahuru at ~~Whangaehu~~ Junction	~~S21: 217 870~~ S21:217-870	~~0.960~~ ~~0.480~~ 41,472
Whole Zone (Whau_1)						~~0.550~~ 47,520
~~*Cumulative allocable volume (Whau 1)*~~						~~*2.175*~~
Middle Whangaehu (Whau_2)	Middle Whangaehu	~~Whau 2~~	~~MALF~~ 9.650	Whangaehu at Aranui	S21:175-627	~~20% of MALF~~ ~~0.605~~ 52,272
Catchment cumulative allocable volume (Whau_1 + Whau_2)						~~*20% of MALF of Whau 2*~~ ~~*0.605*~~ *52,272*
Lower Whangaehu (Whau_3)	Lower Whangaehu (Whau_3a)	~~Whau 3a~~	~~13.240~~ 11.770	Whangaehu at Kauangaroa	~~S22: 045 397~~ S22:045-397	~~2.940~~ ~~1.470~~ 127,008
	Upper Makotuku (Whau_3b)	~~Whau 3b~~	~~0.100~~ 0.095	~~Makotuku at SH49a Bridge~~ Makotuku at Below Race Intake	~~S20: 103 011~~ S20:091-002	~~0.023~~ ~~0.029~~ 2,506
	Lower Makotuku (Whau_3c)	~~Whau 3c~~	~~MALF~~ 0.165	Makotuku at Raetihi	S20:065-955	~~20% of MALF~~ ~~0.044~~ 3,802
	Upper Mangawhero (Whau_3d)	~~Whau 3d~~	~~MALF~~ 1.020	Mangawhero at Pakihi Road	S20:100-945	~~20% of MALF~~ ~~0.240~~ 20,736
	Lower Mangawhero (Whau_3e)	~~Whau 3e~~	~~2.520~~ 2.405	Mangawhero at Ore Ore (NIWA)	~~S21: 045 794~~ S21:045-794	~~0.560~~ ~~0.285~~ 24,624
	Makara (Whau_3f)		0.045	Makara at d/s Airstrip		~~0.000~~ 0
	Cumulative allocable volume (Whau_3b + Whau_3f)					~~0.029~~ 2,506
	Cumulative allocable volume (Whau_3b + Whau_3c + Whau_3f)					~~0.044~~ 3,802
Whole Zone (Whau_3)						~~1.470~~ 127,008
Catchment cumulative allocable volume (Whau_1 + Whau_2 + Whau_3)						~~*1.470*~~ *127,008*

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^

Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
Coastal Whangaehu (Whau_4)	Coastal Whangaehu (Whau_4)	~~Whau 4~~	~~MALF~~11.770	Whangaehu at Kauangaroa	S22:045-397	~~20% of MALF 1.470~~ 127,008
Catchment cumulative allocable volume (Whau_1 + Whau_2 + Whau_3 + Whau_4)						*~~20% of MALF of Whau 4 1.470~~ 127,008*
Turakina (Tura_1)	Upper Turakina (Tura_1a)	~~Tura 1a~~	~~0.345~~ 0.340	Turakina at Otairi	~~S22: 236 471~~ S22:236-471	~~0.075 0.035~~ 3,024
	Lower Turakina (Tura_1b)	~~Tura 1b~~	~~0.830~~ 0.805	Turakina at O'Neills Bridge	~~S23: 006 287~~ S23:006-287	~~0.185 0.145~~ 12,528
	Ratana (Tura_1c)	~~Tura 1c~~	~~MALF~~0.805	Turakina at O'Neills Bridge	S23:006-287	~~20~~10% of MALF
Whole Zone (Tura_1)						~~0.145~~ 12,528
Catchment cumulative allocable volume (Tura_1) ~~Upper and Lower Turakina~~						*~~0.185 0.145~~ 12,528*
Ohau (Ohau_1)	Upper Ohau (Ohau_1a)	~~Ohau 1a~~	0.820	Ohau at Rongomatane	~~S25: 072 577~~ S25:072-577	~~0.280~~ 24,192
	Lower Ohau (Ohau_1b)	~~Ohau 1b~~	0.820	Ohau at Rongomatane	~~S25: 072 577~~ S25:072-577	~~0.280~~ 24,192
Whole Zone (Ohau_1)						~~0.280~~ 24,192
Catchment cumulative allocable volume (Ohau_1)						*~~0.280~~ 24,192*
Owahanga (Owha_1)	Owahanga (Owha_1)	~~Owha 1~~	~~0.040~~0.030	Owahanga at Branscombe Bridge	~~U25: 893 587~~ U25:893-587	~~0.010 0.005~~ 432
East Coast (East_1)	East Coast (East_1)	~~East 1~~	MALF*			~~20~~10% of MALF*
Akitio (Akit_1)	Upper Akitio (Akit_1a)	~~Akit 1a~~	~~MALF~~ 0.045	Akitio at Weber	U24:919-832	~~20% of MALF 0.010~~ 864
	Lower Akitio (Akit_1b)	~~Akit 1b~~	~~MALF~~ 0.145	Akitio at Mouth	U25:988-655	~~20% of MALF 0.030~~ 2,592
	Waihi (Akit_1c)	~~Akit 1c~~	~~MALF~~ 0.050	Waihi at S.H.52	U24:892-804	~~20% of MALF 0.015~~ 1,296

Table B1: Allocation Limits and Minimum Flows by *Water Management Sub-zone*^

Zone code	Sub-zone	~~Sub-zone code~~	Minimum flow (m^3/s)	Flow monitoring site	Flow monitoring site ~~map reference~~ location	Cumulative core allocation limit ~~(m^3/s)~~ (m^3/day)
Catchment cumulative allocable volume (Akit_1)						~~*20% of MALF of Akit_1b 0.030*~~ *2,592*
Northern Coastal (West_1)	Northern Coastal (West_1)	~~West 1~~	MALF*			~~20~~10% of MALF*
Kai Iwi (West_2)	Kai Iwi (West_2)	~~West 2~~	~~0.470~~ 0.445	Kai Iwi at Handley Road	~~R22: 726 455~~ R22:726-455	~~0.105 0.045~~ 3,888
Mowhanau (West_3)	Mowhanau (West_3)	~~West 3~~	MALF*			~~20~~10% of MALF*
Kaitoke Lakes (West_4)	Kaitoke lakes (West_4)	~~West 4~~	~~MALF~~ Rule 15-5 applies			~~20% of MALF~~ Rule 15-5 applies
Southern Whanganui Lakes (West_5)	Southern Whanganui lakes (West_5)	~~West 5~~	~~MALF~~ Rule 15-5 applies			~~20% of MALF~~ Rule 15-5 applies
Northern Manawatu Lakes (West_6)	Northern Manawatu lakes (West_6)	~~West 6~~	~~MALF~~ Rule 15-5 applies			~~20% of MALF~~ Rule 15-5 applies
Waitarere (West_7)	Waitarere (West_7)	~~West 7~~	MALF*			~~20~~10% of MALF*
Lake Papaitonga (West_8)	Lake Papaitonga (West_8)	~~West 8~~	~~MALF~~ Rule 15-5 applies			~~20% of MALF~~ Rule 15-5 applies
Waikawa (West_9)	Waikawa (West_9a)	~~West 9~~	~~MALF~~ 0.220	Waikawa at North Manakau Road	S25:987-530	~~20% of MALF 0.070~~ 6,048
	Manakau (West_9b)		0.040	Manakau at S.H.1 Bridge	S25:968-512	~~0.005~~ 432
Whole zone (West_9)						~~0.070~~ 6,048
Lake Horowhenua (Hoki_1)	Lake Horowhenua (Hoki_1a)	~~Hoki 1a~~	~~MALF~~ Rule 15-5 applies			~~20% of MALF~~ Rule 15-5 applies
	Hokio (Hoki_1b)	~~Hoki 1b~~	MALF*			~~20~~10% of MALF*