Schedule B: Surface *Water*^ Quantity

Schedule B is a component of Part II - the Regional Plan.

Schedule B only applies to *rivers*^.

How to use the contents of this schedule:

Step 1: Identify which *Water Management Sub-zone** your proposed abstraction lies in (go to Schedule AA).

Step 2: Refer to Table B1 to identify which cumulative core allocation limits and minimum flows apply to your *Water Management Sub-zone**.

Advice Note:
In accordance with Policy 6-16(b), the taking of *water*^ for hydroelectricity generation that was lawfully established as at 31 May 2007 falls outside the cumulative core allocation limits and minimum flows in this Schedule.

The cumulative core allocation in any *Water Management Sub-zone** is only available where:

(a) the point of take is downstream of the locations described in Table B.2 which identifies the location of infrastructure related to existing hydroelectricity generation schemes, or

(b) the point of take is upstream of the locations described in the Table B.2 and the quantity of *water*^ to be taken is no more than was lawfully allocated to be taken upstream of those locations as at 31 May 2007.

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone**

*Water Management 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~~ 17,712
	Mangatewainui (Mana_1b)	~~Mana 1b~~	1.600	Manawatu at Weber Rd	~~U23: 751 027~~ U23:751-027	~~0.063~~ 5,616

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone

*Water Management 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)
	Mangatoro (Mana_1c)	~~Mana 1c~~	~~0.702~~ 0.700	Mangatoro at Mangahei Rd	~~U23: 813 019~~ U23:813-019	~~0.204~~ 10,368
Whole Zone (Mana_1)						~~**0.204**~~ **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~~ 21,600
	Mangatera (Mana_2b)	~~Mana 2b~~	1.600	Manawatu at Weber Rd	~~U23: 751 027~~ U23:751-027	~~0.047~~ 3,888
***Catchment* cumulative allocable volume (Mana_1 + Mana_2)**						~~***0.251***~~ ***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~~ 6,912
Upper Kumeti (Mana_4)	Upper Kumeti (Mana_4)	~~Mana 4~~	0.055	Kumeti at Te Rehunga	~~T23: 663 052~~ T24:616-899	~~0.005~~ 864
Tamaki-Hopelands (Mana_5)	Tamaki-Hopelands (Mana_5a)	~~Mana 5a~~	2.980	Manawatu at Hopelands	~~T24: 616 899~~ T24:616-899	~~0.971~~ 83,808
	Lower Tamaki (Mana_5b)	~~Mana 5b~~	0.360	Tamaki at Stephensons	~~U23: 707 022~~ U23:707-022	~~0.138~~ 12,096
	Cumulative allocable volume (Mana_3 + Mana_5b)					12,096
	Lower Kumeti (Mana_5c)	~~Mana 5c~~	~~0.055~~ 2.980	~~Kumeti at Te Rehunga~~ Manawatu at Hopelands	~~T23: 663 052~~ T24:616-899	~~0.059~~ 5,184
	Cumulative allocable volume (Mana_4 + Mana_5c)					5,184
	Oruakeretaki (Mana_5d)	~~Mana 5d~~	~~0.293~~ 0.208	Oruakeretaki at SH2 Napier	~~T23: 679 014~~ T23:679-014	~~0.105~~ 13,651
	Raparapawai (Mana_5e)	~~Mana 5e~~	~~0.074~~ 0.035	Raparapawai at Jacksons Rd	~~T24: 645 938~~ T24:645-938	~~0.024~~ 1,296
***Catchment* cumulative allocable volume (Mana_1 + Mana_2 + Mana_3 + Mana_4 + Mana_5)**						~~***0.971***~~ ***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~~ 90,720
***Catchment* cumulative allocable volume (Mana_1 + Mana_2 + Mana_3 + Mana_4 + Mana_5 + Mana_6)**						~~***1.049***~~ ***90,720***

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone

*Water Management 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)
Tiraumea (Mana_7)	Upper Tiraumea (Mana_7a)	~~Mana 7a~~	~~2.140~~ 2.040	Tiraumea at Ngaturi	~~T24: 578 780~~ T24:578-780	~~0.475~~ 3,456
	Lower Tiraumea (Mana_7b)	~~Mana 7b~~	~~2.140~~ 2.040	Tiraumea at Ngaturi	~~T24: 578 780~~ T24:578-780	~~0.550~~ 23,328
	Mangaone River (Mana_7c)	~~Mana 7c~~	~~MALF~~ 2.040	Tiraumea at Ngaturi	T24:578-780	~~MALF~~ 1,728
	Makuri (Mana_7d)	~~Mana 7d~~	~~2.160~~ 1.700	Makuri at Tuscan Hills	~~T24: 583 717~~ T24:583-717	~~0.108~~ 8,640
	Cumulative allocable volume (Mana_7a + Mana_7c + Mana_7d)					8,640
	Mangaramarama (Mana_7e)		2.040	Tiraumea at Ngaturi	T24:578-780	2,160
Whole Zone (Mana_7)						**~~0.550~~ 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~~ 1,728
	Middle Mangatainoka (Mana_8b)	~~Mana 8b~~	~~1.580~~ 1.305	Mangatainoka at Pahiatua Town Bridge	~~T24: 501 802~~ T24:501-802	~~0.105~~ 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~~ 27,913
	Makakahi (Mana_8d)	~~Mana 8d~~	~~0.345~~ 0.320	Makakahi at Hamua	~~T25: 424 676~~ T25:424-676	~~0.052~~ 2,694
	Cumulative allocable volume (Mana_8a + Mana_8b + Mana_8d)					5,184
	~~Mangaramarama~~	~~Mana 8e~~	~~1.580~~	~~Mangatainoka at Pahiatua Town Bridge~~	~~T24: 501 802~~	~~0.009~~
Whole Zone (Mana_8)						**~~0.289~~ 27,913**
Catchment* cumulative allocable volume *~~(Mana_7 + Mana_8)~~ Mangatainoka and Tiraumea (Mana_7 + Mana_8)						***~~0.839~~ 51,241***
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~~ 198,288
	Mangapapa (Mana_9b)	~~Mana 9b~~	~~0.023~~ 0.035	Mangapapa at Troup Road	~~T24: 520 922~~ T24:520-922	~~0.010~~ 1,296

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone**						
Water Management* 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)
	Mangaatua (Mana_9c)	~~Mana 9c~~	~~MALF~~ 0.070	Mangaatua at Hutchinsons	T24:581-932	~~20% of MALF~~ 432
	Upper Mangahao (Mana_9d)	~~Mana 9d~~	~~MALF~~ 1.415	Mangahao at Ballance	T24:468-818	~~20% of MALF~~ 7,344
	Lower Mangahao (Mana_9e)	~~Mana 9e~~	~~MALF~~ 1.415	Mangahao at Ballance	T24:468-818	~~20% of MALF~~ 7,344
	Cumulative allocable volume (Mana_9d + Mana_9e)					7,344
Whole Zone (Mana_9)						**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*~~ ***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~~ 264,384
	Upper Pohangina (Mana_10b)	~~Mana 10b~~	~~MALF~~ 1.960	Pohangina at Mais Reach	~~T23: 467 053~~ T23:467-053	~~20% of MALF~~ 9,936
	Middle Pohangina (Mana_10c)	~~Mana 10c~~	1.960	Pohangina at Mais Reach	~~T23: 467 053~~ T23:467-053	~~0.460~~ 39,312
	Cumulative allocable volume (Mana_10b + Mana_10c)					39,312
	Lower Pohangina (Mana_10d)	~~Mana 10d~~	1.960	Pohangina at Mais Reach	~~T23: 467 053~~ T23:467-053	~~0.525~~ 39,312
	Cumulative allocable volume (Mana_10b + Mana_10c + Mana_10d)					39,312
	Aokautere (Mana_10e)	~~Mana 10e~~	~~MALF~~ 12.240	Manawatu at Teachers College	T24:331-892	~~20% of MALF~~ 432
Whole Zone (Mana_10)						**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*~~ ***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~~ 336,096
	Turitea (Mana_11b)	~~Mana 11b~~	~~0.050~~ 0.041	Turitea at Ngahere Park	~~T24: 354 852~~ T24:354-852	~~0.264~~ 37,100

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone

*Water Management 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)
	Kahuterawa (Mana_11c)	~~Mana 11c~~	~~MALF~~ 0.180	Kahuterawa at Johnsons Rata	T24:323-808	~~20% of MALF~~ 864
	Upper Mangaone Stream (Mana_11d)	~~Mana 11d~~	~~MALF~~ 0.035	Mangaone at Milson Line	T24:311-953	~~20% of MALF~~ 432
	Lower Mangaone Stream (Mana_11e)	~~Mana 11e~~	~~MALF~~ 0.035	Mangaone at Milson Line	T24:311-953	~~20% of MALF~~ 864
	Cumulative allocable volume (Mana_11d + Mana_11e)					1,296
	Main Drain (Mana_11f)	~~Mana 11f~~	~~MALF~~ 12.240	Manawatu at Teachers College		~~20~~10% of *MALF**
Whole Zone (Mana_11)						**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~~ 336,096***
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~~ 34,128
	Middle Oroua (Mana_12b)	~~Mana 12b~~	~~1.050~~ 1.030	Oroua at Kawa Wool	~~S23: 287 038~~ S23:287-038	~~0.429~~ 34,992
	Lower Oroua (Mana_12c)	~~Mana 12c~~	~~1.050~~ 1.085	~~Oroua at Kawa Wool~~ Oroua at Awahuri Bridge	~~S23: 287 038~~ S23:243-002	~~0.530~~ 37,152
	Cumulative allocable volume (Mana_12a + Mana_12b + Mana_12c)					37,152
	Kiwitea (Mana_12d)	~~Mana 12d~~	~~0.145~~ 0.150	Kiwitea at Haynes Line	~~T23: 366 207~~ T23:366-207	~~0.048~~ 1,296
	Makino (Mana_12e)	~~Mana 12e~~	~~0.080~~ 0.075	Makino at Boness Road	~~S23: 254 023~~ S23:254-023	~~0.025~~ 1,296
~~***Cumulative allocable volume***~~ **Whole Zone (Mana_12)**						~~**0.530**~~ **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~~ 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~~ 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~~ 1,296

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone**						
Water Management* 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)
	Lower Tokomaru (Mana_13c)	~~Mana 13c~~	~~MALF~~ 0.240	Tokomaru at Riverland Farm	S24:218-772	~~20% of MALF~~ 14,688
	Cumulative allocable volume (Mana_13b + Mana_13c)					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~~ 432
	Foxton Loop (Mana_13f)	~~Mana 13f~~	*MALF**			~~2~~10% of *MALF**
Whole Zone (Mana_13)						**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*~~ ***598,752***
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~~ 21,600
	~~Pukeohahu~~ Pukeokahu-Mangaweka (Rang_2b)	~~Rang 2b~~	~~12.790~~ 12.250	Rangitikei at Mangaweka	~~T22: 504 513~~ T22:504-513	~~0.670~~ 52,704
	Cumulative allocable volume (Rang_2a + Rang_2b)					52,704
	Upper Moawhango (Rang_2c)	~~Rang 2c~~	n/a		T21:557-745	~~0.000~~ 0
	Middle Moawhango (Rang_2d)	~~Rang 2d~~	n/a		T21:557-745	~~0.000~~ 0
	Lower Moawhango (Rang_2e)	~~Rang 2e~~	~~MALF~~ n/a	~~Moawhango at Moawhango~~	T21:557-745	~~5% of MALF~~ 0
	Upper Hautapu (Rang_2f)	~~Rang 2f~~	~~0.745~~ 0.640	Hautapu at Alabasters	~~T21: 486 683~~ T21:486-683	~~0.112~~ 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)					12,960

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone**						
Water Management* 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)
Whole Zone (Rang_2)						**52,704**
***Catchment* cumulative allocable volume (Rang_1 + Rang_2)**						***0.670* *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~~ 141,696
	Makohine (Rang_3b)	~~Rang 3b~~	~~0.036~~ 0.040	Makohine at Viaduct	~~T22: 395 450~~ T22:395-450	~~0.008~~ 864
Whole Zone (Rang_3)						**141,696**
***Catchment* cumulative allocable volume (Rang_1 + Rang_2 + Rang_3)**						***1.510* *141,696***
Coastal Rangitikei (Rang_4)	Coastal Rangitikei (Rang_4a)	~~Rang 4a~~	10.230	Rangitikei at McKelvies	~~S24: 033 985~~ S24:033-985	~~6.410~~ 213,840
	Tidal Rangitikei (Rang_4b)	~~Rang 4b~~	10.230	Rangitikei at McKelvies	~~S24: 033 985~~ S24:033-985	~~6.410~~ 285,120
	Porewa (Rang_4c)	~~Rang 4c~~	~~MALF~~ 12.100	Rangitikei at Onepuhi	S23:201-222	~~20% of MALF~~ 0
	Tutaenui (Rang_4d)	~~Rang 4d~~	~~MALF~~ 10.230	Rangitikei at McKelvies	S24:033-985	~~20% of MALF~~ 6,653
Whole Zone (Rang_4)						**285,120**
***Catchment* cumulative allocable volume (Rang_1 + Rang_2 + Rang_3 + Rang_4)**						***6.410* *285,120***
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	~~Whai 1~~	~~MALF~~ 26.6	Whanganui at Te Maire		~~20% of MALF~~ 518
~~***Cumulative allocable volume***~~ **Whole Zone (Whai_1)**						~~**20%of MALF of Whai_1**~~ **518**
Cherry Grove (Whai_2)	Cherry Grove (Whai_2a)	~~Whai 2a~~	~~MALF~~ 26.6	Whanganui at Te Maire		~~20% of MALF~~ 15,121
	Upper Whakapapa (Whai_2b)	~~Whai 2b~~	~~MALF~~ 26.6	Whanganui at Te Maire		~~20% of MALF~~ 3,937
	Lower Whakapapa (Whai_2c)	~~Whai 2c~~	~~MALF~~ 26.6	Whanganui at Te Maire		~~20% of MALF~~ 5,517

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone**						
***Water Management* 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)**
	Piopiotea (Whai_2d)	~~Whai 2d~~	~~MALF~~ 26.6	Whanganui at Te Maire		~~20% of MALF~~ 80
	Pungapunga (Whai_2e)	~~Whai 2e~~	~~MALF~~ 26.6	Whanganui at Te Maire		~~20% of MALF~~ 0
	Upper Ongarue (Whai_2f)	~~Whai 2f~~	~~MALF~~ 26.6	Whanganui at Te Maire		~~20% of MALF~~ 1,270
	Lower Ongarue (Whai_2g)	~~Whai 2g~~	~~MALF~~ 26.6	Whanganui at Te Maire		~~20% of MALF~~ 1,422
Whole Zone (Whai_2)						**15,121**
***Catchment* cumulative allocable volume (Whai_1 + Whai_2)**						***~~20% of MALF of the point just downstream of the Ongarue-Whanganui confluence~~ 15,121***
Te Maire (Whai_3)	Te Maire (Whai_3)	~~Whai 3~~	*MALF**			~~20~~10% of *MALF**
***Catchment* cumulative allocable volume (Whai_1 + Whai_2 + Whai_3)**						**~~20~~10% of *MALF****
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****

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone

*Water Management 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 + Whai_3 + Whai_4)**						***~~20% of MALF of the point just downstream of the Whanganui-Retaruke 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
	Makatote (Whai_5e)		n/a			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
	Lower Manganui o te Ao (Whai_5i)	~~Whai 5e~~	7 day *MALF**			~~0.000~~ 5% of 7 day *MALF**
	Orautoha (Whai_5j)		7 day *MALF**			5% of 7 day *MALF**
Whole Zone (Whai_5)						**10% of *MALF****
***Catchment* cumulative allocable volume (Whai_1 + Whai_2 + Whai_3 + Whai_4 + Whai_5)**						***~~20% of MALF of Whai 5a~~ 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% of MALF of Whai 6~~ 10% of MALF****

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone

*Water Management 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)
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)						**10% of *MALF****
Catchment cumulative allocable volume (Whai_1 + Whai_2 + Whai_3 + Whai_4 + Whai_5 + Whai_6 + Whai_7)						~~***20% of MALF of Whai 7b***~~ ***10% of MALF****
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~~ 47,520
	Waitangi (Whau_1b)	~~Whau 1b~~	~~0.475~~ 0.470	Waitangi at Tangiwai	~~T21: 316 886~~ T21:316-886	~~0.105~~ 9,504
	Tokiahuru (Whau_1c)	~~Whau 1c~~	~~4.340~~ 3.840	Tokiahuru at ~~Whangaehu~~ Junction	~~S21: 217 870~~ S21:217-870	~~0.960~~ 41,472
Whole Zone (Whau_1)						**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~~ 52,272
Catchment cumulative allocable volume (Whau_1 + Whau_2)						~~***20% of MALF of Whau 2***~~ ***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~~ 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~~ 2,506
	Lower Makotuku (Whau_3c)	~~Whau 3c~~	~~MALF~~ 0.165	Makotuku at Raetihi	S20:065-955	~~20% of MALF~~ 3,802
	Upper Mangawhero (Whau_3d)	~~Whau 3d~~	~~MALF~~ 1.020	Mangawhero at Pakihi Road	S20:100-945	~~20% of MALF~~ 20,736

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone

*Water Management 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)
	Lower Mangawhero (Whau_3e)	~~Whau 3e~~	~~2.520~~ 2.405	Mangawhero at Ore Ore	~~S21: 045 794~~ S21:045-794	~~0.560~~ 24,624
	Makara (Whau_3f)		0.045	Makara at d/s Airstrip		0
	Cumulative allocable volume (Whau_3b + Whau_3f)					2,506
	Cumulative allocable volume (Whau_3b + Whau_3c + Whau_3f)					3,802
Whole Zone (Whau_3)						**127,008**
***Catchment* cumulative allocable volume (Whau_1 + Whau_2 + Whau_3)**						***~~2,940~~ 127,008***
Coastal Whangaehu (Whau_4)	Coastal Whangaehu (Whau_4)	~~Whau 4~~	~~MALF~~ 11.770	Whangaehu at Kauangaroa	S22:045-397	~~20% of MALF~~ 127,008
***Catchment* cumulative allocable volume (Whau_1 + Whau_2 + Whau_3 + Whau_4)**						***~~20% of MALF of Whau 4~~ 127,008***
Turakina (Tura_1)	Upper Turakina (Tura_1a)	~~Tura 1a~~	~~0.345~~ 0.340	Turakina at Otairi ~~Rd~~	~~S22: 236 471~~ S22:236-471	~~0.075~~ 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~~ 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)						**12,528**
***Catchment* cumulative allocable volume (Tura_1) ~~Upper and Lower Turakina~~**						***~~0.185~~ 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)						**24,192**
***Catchment* cumulative allocable volume (Ohau_1)**						***~~0.280~~ 24,192***

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone

*Water Management 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)
Owahanga (Owha_1)	Owahanga (Owha_1)	~~Owha 1~~	~~0.040~~ 0.030	Owahanga at Branscombe Bridge	~~U25: 893 587~~ U25:893-587	~~0.010~~ 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~~ 864
	Lower Akitio (Akit_1b)	~~Akit 1b~~	~~MALF~~ 0.145	Akitio at Mouth	U25:988-655	~~20% of MALF~~ 2,592
	Waihi (Akit_1c)	~~Akit 1c~~	~~MALF~~ 0.050	Waihi at SH52	U24:892-804	~~20% of MALF~~ 1,296
***Catchment* cumulative allocable volume (Akit_1)**						***~~20% of MALF of Akit_1b~~ 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~~ 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**			~~20~~10% of *MALF**
Southern Whanganui Lakes (West_5)	Southern Whanganui Lakes (West_5)	~~West 5~~	*MALF**			~~20~~10% of *MALF**
Northern Manawatu Lakes (West_6)	Northern Manawatu Lakes (West_6)	~~West 6~~	*MALF**			~~20~~10% of *MALF**
Waitarere (West_7)	Waitarere (West_7)	~~West 7~~	*MALF**			~~20~~10% of *MALF**
Lake Papaitonga (West_8)	Lake Papaitonga (West_8)	~~West 8~~	*MALF**			~~20~~10% of *MALF**
Waikawa (West_9)	Waikawa (West_9a)	~~West 9~~	~~MALF~~ 0.220	Waikawa at North Manakau Road	S25:987-530	~~20% of MALF~~ 6,048

Table B.1: Cumulative Core Allocation Limits and Minimum Flows by *Water Management Sub-zone**						
Water Management* 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)
	Manakau (West_9b)		0.040	Manakau at SH1 Bridge	S25:968-512	432
Whole zone (West_9)						**6,048**
Lake Horowhenua (Hoki_1)	Lake Horowhenua (Hoki_1a)	~~Hoki 1a~~	*MALF**			~~20~~10% of *MALF**
	Hokio (Hoki_1b)	~~Hoki 1b~~	*MALF**			~~20~~10% of MALF*

Table B.2: Location of Existing Hydroelectricity Generation Scheme Infrastructure			
Water Management Zone*	***Sub-zone****	Intake/Dam Name	Locality Descriptions
Middle Rangitikei (Rang_2)	Upper Moawhango (Rang_2)	Moawhango Dam	T20:472-962
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	Okupata Intake	S19:287-351
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	Taurewa Intake	T19:305-356
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	Tawhitikuri Intake	T19:311-359
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	Mangatepopo Intake	T19:313-361
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	Whanganui Intake	T19:353-386
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	Te Whaiau Dam	T19:357-398
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	Otamangakau Dam	T19:367-410
Cherry Grove (Whai_2)	Upper Whakapapa (Whai_2b)	Whakapapa Intake minimum flow site (footbridge)	S19:226-295

Table B.2: Location of Existing Hydroelectricity Generation Scheme Infrastructure			
Water Management Zone*	***Sub-zone****	**Intake/Dam Name**	**Locality Descriptions**
Te Maire (Whai_3)	Te Maire (Whai_3)	Whanganui River at Te Maire	S19:998-490
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Makahikatoa	T20:401-984
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Whangaehu River	T20:404-984
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Whangaehu River	T20:407-985
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Whangaehu River	T20:409-985
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Whangaehu River	T20:419-985
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Whangaehu River	T20:424-985
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:393-986
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:393-986
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:394-986
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:394-986
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:397-986
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:397-986
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Whangaehu River	T20:413-986
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Whangaehu River	T20:416-986
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Whangaehu River	T20:417-986
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:387-987

Table B.2: Location of Existing Hydroelectricity Generation Scheme Infrastructure			
Water Management Zone*	***Sub-zone****	**Intake/Dam Name**	**Locality Descriptions**
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:387-987
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Tomowai	T20:414-987
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:378-988
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:378-988
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:383-988
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	Unnamed tributary of the Wahianoa River	T20:383-988