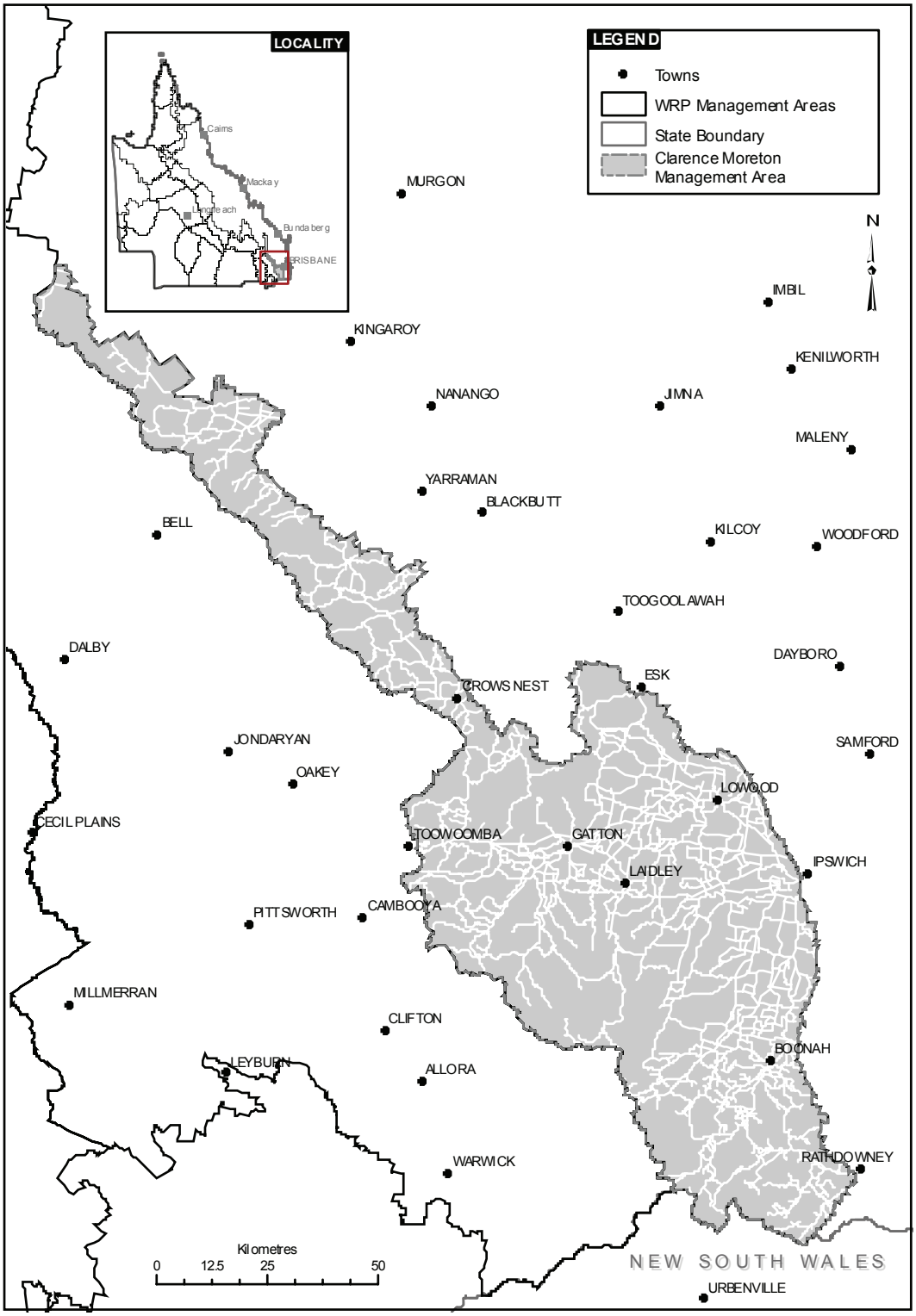
ATTACHMENT: B-25

Clarence Moreton management area



ATTACHMENT: C

Links between this Plan and the Water Resource (Great Artesian Basin) Plan 2006

How the Great Artesian Basin Resource Operations Plan 2006 is related to the *Water Resource (Great Artesian Basin) Plan 2006* outcomes.

Outcomes of the Water Resource *(Great Artesian Basin) Plan 2006* (Section 8)	**Provisions of the *Resource Operations Plan***
Water is to be allocated and managed in a way that seeks to achieve a balance in the following outcomes-	
8(a) to protect the flow of water to springs and baseflow to watercourses that support significant cultural and environmental values	Chapter 3 - criteria for protection of flow to springs and baseflow to watercourses
8(b) to provide for the continued use of all water entitlements	Chapter 4 - Criteria for protection of existing entitlements
8(c) to reserve water in storage in aquifers for future generations	The amount of unallocated water to be made available is limited
8(d) to ensure a reliable supply of water in the plan area	There is no new water available from either the general reserve or the State reserve in management areas that are heavily allocated.
8(e) to make water available for new users	Chapter 2 - Release of unallocated water

ATTACHMENT: D–1

(Chapter 3 and 4)

Management units assigned to Transmissivity Groups

The management unit in column 1 belongs to the Transmissivity group shown in column 2.

Column 1	Column 2		Column 1	Column 2		Column 1	Column 2
Management unit	**Transmissivity group**		**Management unit**	**Transmissivity group**		**Management unit**	**Transmissivity group**
Barcaldine East 1	150		Clarence Moreton 3	150		Surat 4	50
Barcaldine East 2	150		Eastern Downs 1	50		Surat 5	150
Barcaldine East 3	150		Eastern Downs 2	50		Surat 6	150
Barcaldine East 4	50		Eastern Downs 3	150		Surat 7	150
Barcaldine North 1	50		Flinders 1	50		Surat 8	50
Barcaldine North 2	250		Flinders 2	150		Surat East 1	50
Barcaldine North 3	50		Flinders 3	150		Surat East 2	50
Barcaldine South 1	50		Flinders 4	150		Surat East 3	150
Barcaldine South 2	150		Flinders 5	50		Surat East 4	150
Barcaldine South 3	150		Flinders East 1	50		Surat East 5	50
Barcaldine South 4	150		Flinders East 2	150		Surat North 1	150
Barcaldine South 5	150		Flinders East 3	150		Surat North 2	150
Barcaldine South 6	50		Flinders East 4	150		Surat North 3	150
Barcaldine West 1	50		Flinders East 5	50		Surat North 4	50
Barcaldine West 2	150		Gulf 1	250		Warrego East 1	50
Barcaldine West 3	150		Gulf 2	250		Warrego East 2	50
Barcaldine West 4	150		Gulf 3	50		Warrego East 3	150
Barcaldine West 5	50		Gulf 4	50		Warrego East 4	150
Cape 1	50		Gulf East 1	250		Warrego East 5	150
Carpentaria 1	50		Gulf East 2	250		Warrego East 6	150
Carpentaria 2	50		Gulf East 3	50		Warrego East 7	50
Carpentaria East 1	50		Gulf East 4	50		Warrego West 1	50
Carpentaria East 2	50		Laura 1	50		Warrego West 2	50
Central 1	50		Laura 2	50		Warrego West 3	150
Central 2	50		Mimosa 1	50		Warrego West 4	150
Central 3	150		Mulgildie 1	150		Warrego West 5	150
Central 4	150		Mulgildie 2	150		Warrego West 6	150
Central 5	150		North West 1	50		Warrego West 7	50
Central 6	150		North West 2	50		Western 1	50
Central 7	50		Surat 1	50		Western 2	50
Clarence Moreton 1	50		Surat 2	50		Western Carlo 1	50
Clarence Moreton 2	50		Surat 3	50			

ATTACHMENT: D–2
(Chapter 3)

Spring Factors
Spring Factors are to be calculated by multiplying the average annual take of water in ML/yr by the relevant spring factor multiplier determined from Table D2 below. The Spring Factor is assigned a positive value (based on Table D2) for situations involving a reduction in artesian pressure or subartesian water levels below a spring. Similarly, the Spring Factor is assigned a negative value (based on Table D2) for situations involving an increase in artesian pressure or subartesian water levels below a spring.

Table D2: Spring factor multipliers
For the distance between a spring and a proposed (or actual) location of take of water shown in column 1, the spring factor multiplier for management units in Transmissivity groups "TG-50", "TG-150" and "TG-250" (as determined from Attachment D-1) is shown for recharge and watercourse springs in column 2, and for discharge springs in column 3.

Where the actual distance between a spring and the location of take of water is not shown in Table D2, the spring factor multiplier is to be determined on a pro-rata basis using the distances that are shown in Table D2 that are closest to the actual distance. For all distances greater than 780 km, the spring factor multiplier is zero.

Table D-2. Spring factor multipliers

Column 1	Column 2			Column 3		
Distance (kilometre)	Spring factor multiplier for recharge and watercourse springs			Spring factor multiplier for discharge springs		
	TG- 50	TG-150	TG-250	TG-50	TG-150	TG-250
5	15.28508	6.67424	4.44776	25.25164	10.01124	6.45172
10	9.4634	4.68536	3.24852	19.23328	8.0002	5.24448
20	4.24556	2.76844	2.07556	13.28132	5.99656	4.03992
40	0.81688	1.1108	1.00128	7.5866	4.02228	2.846
60	0.11384	0.43412	0.49552	4.5996	2.9088	2.16276
80	0.0104	0.15416	0.2364	2.80004	2.1608	1.6936
100	0.0006	0.0484	0.1062	1.6776	1.6214	1.34532
120	0	0.01324	0.04436	0.97932	1.21904	1.07588
140	0	0.00312	0.01708	0.5536	0.91412	0.86252
160	0	0.00064	0.00604	0.30184	0.6816	0.69136
180	0	0.00012	0.00196	0.15824	0.50432	0.55304
200	0	0	0.00056	0.0796	0.36976	0.44092
220	0	0	0.00016	0.03832	0.26828	0.34996
240	0	0	0.00004	0.01764	0.19248	0.2764
260	0	0	0	0.00776	0.13644	0.217
280	0	0	0	0.00328	0.09552	0.16932
320	0	0	0	0.00048	0.04496	0.101
360	0	0	0	0	0.02004	0.05852
400	0	0	0	0	0.0084	0.03284
450	0	0	0	0	0.0026	0.01524
480	0	0	0	0	0.00124	0.00936
500	0	0	0	0	0.00072	0.00668
560	0	0	0	0	0.00016	0.00232
580	0	0	0	0	0	0.0016
600	0	0	0	0	0	0.00108
660	0	0	0	0	0	0.00032
700	0	0	0	0	0	0.00012
720	0	0	0	0	0	0.00008
780	0	0	0	0	0	0

ATTACHMENT: D-3

(Chapter 4)

For a management unit that belongs to Transmissivity group 'TG-50' (as determined from Attachment D-1), the minimum separation distance (in kilometres) for an existing take of water (in megalitres per year) shown in column 1 is the distance shown in column 2 for the relevant total proposed take of water (in megalitres per year).

Table-1 Transmissivity group 'TG-50' separation distances

Column 1	Column 2															
Existing take of water (Megalitres per year)	Proposed take of water (Megalitres per year)															
	Less than 50	50 – 150	151 – 250	251 – 350	351 – 450	451 – 750	751 – 1500	1501 – 2500	2501 – 3500	3501 – 4500	4501 – 5500	5501 – 6500	6501 – 7500	7501 – 8500	8501 – 9500	9501 – 10500
Less than 50	0.6	1.4	5.7	14.0	22.5	30.1	57.2	85.1	100.8	111.6	119.8	126.4	131.8	136.4	140.5	144.0
50 – 150	1.4	1.7	6.0	14.3	22.8	30.4	57.4	85.3	101.1	111.9	120.1	126.6	132.0	136.7	140.7	144.3
151 – 250	5.7	6.0	10.3	18.6	27.1	34.7	61.8	89.7	105.4	116.2	124.4	131.0	136.4	141.0	145.1	148.6
251 – 350	14.0	14.3	18.6	26.9	35.4	43.0	70.1	98.0	113.7	124.5	132.7	139.3	144.7	149.3	153.4	156.9
351 – 450	22.5	22.8	27.1	35.4	43.9	51.5	78.6	106.5	122.2	133.0	141.2	147.8	153.2	157.8	161.9	165.4
451 – 750	30.1	30.4	34.7	43.0	51.5	59.1	86.2	114.1	129.8	140.6	148.8	155.4	160.8	165.4	169.5	173.0
751 – 1500	57.2	57.4	61.8	70.1	78.6	86.2	113.2	141.1	156.9	167.7	175.9	182.4	187.8	192.5	196.5	200.1
1501 – 2500	85.1	85.3	89.7	98.0	106.5	114.1	141.1	169.0	184.8	195.6	203.8	210.3	215.7	220.4	224.4	228.0
2501 – 3500	100.8	101.1	105.4	113.7	122.2	129.8	156.9	184.8	200.5	211.3	219.5	226.1	231.5	236.1	240.2	243.7
3501 – 4500	111.6	111.9	116.2	124.5	133.0	140.6	167.7	195.6	211.3	222.1	230.3	236.9	242.3	246.9	251.0	254.5
4501 – 5500	119.8	120.1	124.4	132.7	141.2	148.8	175.9	203.8	219.5	230.3	238.5	245.1	250.5	255.1	259.2	262.7
5501 – 6500	126.4	126.6	131.0	139.3	147.8	155.4	182.4	210.3	226.1	236.9	245.1	251.6	257.0	261.7	265.7	269.3
6501 – 7500	131.8	132.0	136.4	144.7	153.2	160.8	187.8	215.7	231.5	242.3	250.5	257.0	262.4	267.1	271.1	274.7
7501 – 8500	136.4	136.7	141.0	149.3	157.8	165.4	192.5	220.4	236.1	246.9	255.1	261.7	267.1	271.7	275.8	279.3
8501 – 9500	140.5	140.7	145.1	153.4	161.9	169.5	196.5	224.4	240.2	251.0	259.2	265.7	271.1	275.8	279.8	283.4
9501 – 10500	144.0	144.3	148.6	156.9	165.4	173.0	200.1	228.0	243.7	254.5	262.7	269.3	274.7	279.3	283.4	286.9

ATTACHMENT: D-3 (Continued)

For a management unit that belongs to Transmissivity group 'TG-150' (as determined from Attachment D-1), the minimum separation distance (in kilometres) for an existing take of water (in megalitres per year) shown in column 1 is the distance shown in column 2 for the relevant total proposed take of water (in megalitres per year).

Table-2 Transmissivity group 'TG-150 separation distances

Column 1	Column 2															
Existing take of water (Megalitres per year)	Proposed Take of Water (Megalitres per Year)															
	Less than 50	50 – 150	151 – 250	251 – 350	351 – 450	451 – 750	751 – 1500	1501 – 2500	2501 – 3500	3501 – 4500	4501 – 5500	5501 – 6500	6501 – 500	7501 – 8500	8501 – 9500	9501 – 10500
Less than 50	0.6	1.4	1.8	2.0	2.7	5.6	28.9	70.6	98.7	118.8	134.4	146.9	157.4	166.4	174.2	181.1
50 – 150	1.4	1.7	2.0	2.3	2.9	5.9	29.1	70.9	98.9	119.1	134.6	147.2	157.7	166.6	174.5	181.4
151 – 250	1.8	2.0	2.4	2.6	3.3	6.2	29.5	71.2	99.2	119.4	135.0	147.5	158.0	167.0	174.8	181.7
251 – 350	2.0	2.3	2.6	2.9	3.5	6.5	29.8	71.5	99.5	119.7	135.2	147.8	158.3	167.3	175.1	182.0
351 – 450	2.7	2.9	3.3	3.5	4.2	7.1	30.4	72.2	100.2	120.4	135.9	148.5	158.9	167.9	175.7	182.7
451 – 750	5.6	5.9	6.2	6.5	7.1	10.0	33.3	75.1	103.1	123.3	138.8	151.4	161.9	170.8	178.7	185.6
751 – 1500	28.9	29.1	29.5	29.8	30.4	33.3	56.6	98.4	126.4	146.6	162.1	174.7	185.2	194.1	202.0	208.9
1501 – 2500	70.6	70.9	71.2	71.5	72.2	75.1	98.4	140.1	168.1	188.3	203.9	216.4	226.9	235.9	243.7	250.6
2501 – 3500	98.7	98.9	99.2	99.5	100.2	103.1	126.4	168.1	196.1	216.3	231.9	244.4	254.9	263.9	271.7	278.6
3501 – 4500	118.8	119.1	119.4	119.7	120.4	123.3	146.6	188.3	216.3	236.5	252.1	264.6	275.1	284.1	291.9	298.8
4501 – 5500	134.4	134.6	135.0	135.2	135.9	138.8	162.1	203.9	231.9	252.1	267.6	280.2	290.6	299.6	307.4	314.4
5501 – 6500	146.9	147.2	147.5	147.8	148.5	151.4	174.7	216.4	244.4	264.6	280.2	292.7	303.2	312.2	320.0	326.9
6501 – 7500	157.4	157.7	158.0	158.3	158.9	161.9	185.2	226.9	254.9	275.1	290.6	303.2	313.7	322.7	330.5	337.4
7501 – 8500	166.4	166.6	167.0	167.3	167.9	170.8	194.1	235.9	263.9	284.1	299.6	312.2	322.7	331.6	339.5	346.4
8501 – 9500	174.2	174.5	174.8	175.1	175.7	178.7	202.0	243.7	271.7	291.9	307.4	320.0	330.5	339.5	347.3	354.2
9501 – 10500	181.1	181.4	181.7	182.0	182.7	185.6	208.9	250.6	278.6	298.8	314.4	326.9	337.4	346.4	354.2	361.1

ATTACHMENT: D-3 (Continued)

For a management unit that belongs to Transmissivity group "TG-250' (as determined from Attachment D-1), the minimum separation distance (in kilometres) for an existing take of water (in megalitres per year) shown in column 1 is the distance shown in column 2 for the relevant total proposed take of water (in megalitres per year).

Table-3 Transmissivity group 'TG-250' separation distances

Column 1	Column 2															
Existing take of water (Megalitres per year)	Proposed Take of Water (Megalitres per Year)															
	Less than 50	50 – 150	151 – 250	251 – 350	351 – 450	451 – 750	751 – 1500	1501 – 2500	2501 – 3500	3501 – 4500	4501 – 5500	5501 – 6500	6501 – 7500	7501 – 8500	8501 – 9500	9501 – 10500
Less than 50	0.2	0.5	0.7	0.8	0.9	0.9	11.7	49.3	81.5	106.8	126.8	143.3	157.3	169.3	179.8	189.2
50 – 150	0.5	0.6	0.8	0.9	1.0	1.0	11.8	49.4	81.6	106.9	126.9	143.4	157.4	169.4	179.9	189.3
151 – 250	0.7	0.8	0.9	1.0	1.1	1.2	12.0	49.5	81.8	107.0	127.1	143.6	157.5	169.5	180.1	189.4
251 – 350	0.8	0.9	1.0	1.1	1.2	1.3	12.1	49.6	81.9	107.1	127.2	143.7	157.6	169.6	180.2	189.5
351 – 450	0.9	1.0	1.1	1.2	1.3	1.3	12.1	49.7	81.9	107.2	127.2	143.7	157.7	169.7	180.2	189.6
451 – 750	0.9	1.0	1.2	1.3	1.3	1.4	12.2	49.8	82.0	107.3	127.3	143.8	157.8	169.8	180.3	189.7
751 – 1500	11.7	11.8	12.0	12.1	12.1	12.2	23.0	60.6	92.8	118.1	138.1	154.6	168.6	180.6	191.1	200.5
1501 – 2500	49.3	49.4	49.5	49.6	49.7	49.8	60.6	98.1	130.4	155.6	175.7	192.2	206.1	218.1	228.7	238.0
2501 – 3500	81.5	81.6	81.8	81.9	81.9	82.0	92.8	130.4	162.6	187.8	207.9	224.4	238.4	250.4	260.9	270.2
3501 – 4500	106.8	106.9	107.0	107.1	107.2	107.3	118.1	155.6	187.8	213.1	233.1	249.6	263.6	275.6	286.1	295.5
4501 – 5500	126.8	126.9	127.1	127.2	127.2	127.3	138.1	175.7	207.9	233.1	253.2	269.7	283.7	295.7	306.2	315.5
5501 – 6500	143.3	143.4	143.6	143.7	143.7	143.8	154.6	192.2	224.4	249.6	269.7	286.2	300.2	312.2	322.7	332.0
6501 – 7500	157.3	157.4	157.5	157.6	157.7	157.8	168.6	206.1	238.4	263.6	283.7	300.2	314.1	326.1	336.7	346.0
7501 – 8500	169.3	169.4	169.5	169.6	169.7	169.8	180.6	218.1	250.4	275.6	295.7	312.2	326.1	338.1	348.7	358.0
8501 – 9500	179.8	179.9	180.1	180.2	180.2	180.3	191.1	228.7	260.9	286.1	306.2	322.7	336.7	348.7	359.2	368.5
9501 – 10500	189.2	189.3	189.4	189.5	189.6	189.7	200.5	238.0	270.2	295.5	315.5	332.0	346.0	358.0	368.5	377.9

ATTACHMENT: E

(Chapter 5)

Town Water Supply Replacement Water Licences

For a town shown in column 2, the total volumetric limit of water licences to be granted to replace existing authorisations is shown in column 4. The current water licences to be replaced are shown in column 3. If a current water licence is not shown in column 3, then the current authorisation is not a water licence.

SHIRE	TOWN	LICENCE	ENTITLEMENT
Aramac			
	Aramac	07121J	420
		51753J	
	Muttaburra	00308J	315
Balonne			
	Bollon	175433	140
	Dirranbandi	49372Q	500
	Hebel	49427Q	50
	St George	00397Q	482
		181238	
	Thallon	177747	120
Barcaldine			
	Barcaldine	93744J	1360
		00312J	
		69904J	
Bendemere			
	Wallumbilla	48871N	180
	Yuleba	58023N	180
Blackall			
	Blackall	69912J	1165
		14588J	
		00318J	
Booringa			
	Amby	10738N	60
	Mitchell	13951N	775
		58746N	
	Mungallala	58418N	95
Boulia			
	Boulia	93060J	265
		101243	
Bulloo			
	Thargomindah	100184	345
Bungil			
	Injune	58426N	250
	Muckadilla	00285N	60
		58731N	

Carpentaria			
	Kowanyama		500
	Normanton	00333K	120
Chinchilla			
	Brigalow	179937	85
	Chinchilla	179942	10
	Kogan		50
Cook			
	Laura	92476K	160
Diamantina			
	Bedourie	00316J	150
	Birdsville	14645J	343
Duaringa			
	Bauhinia	89615S	50
Flinders			
	Hughenden	51840J	1640
		69742J	
	Prairie	11534J	115
	Stamford	11737J	40
	Torrens Creek	69772J	140
Longreach			
	Longreach	00383J	800
		00384J	
McKinlay			
	Julia Creek	15748J	675
		301J	
		31121J	
		51948J	
	Kynuna	93061J	100
	McKinlay	00385J	150
Millmerran			
	Millmerran	94302R	485
		94885R	
Monto			
	Mulgildie	68397M	90
Murilla			
	Dulacca	58615N	65
	Miles	58410N	400
Murweh			
	Augathella	00311E	400
	Charleville	00334E	2500
		00335E	
		16982E	
	Morven	104586	200
Mornington Is			
	Gununa		100

Paroo			
	Cunnamulla	00338E	1000
		17271E	
	Eulo	16733E	112
	Wyandra	04983E	120
	Yowah	04976E	210
Pittsworth			
	Pittsworth	107570R	480
Pormpuraaw Aboriginal Council			
Pormpuraaw	Pormpuraaw		200
Quilpie			
	Adavale	00305E	200
	Eromanga	00358E	130
	Quilpie	00390E	600
Richmond			
	Richmond	13950J	750
		31713J	
	Maxwelton	00391J	48
Roma			
	Roma	100636	3395
		58353N	
Rosalie			
	Goombungee	94338R	300
	Gowrie Junction	87233R	300
	Kingsthorpe	64941R	300
	Kulpi	87021R	50
	Meringandan	87217R	300
		83699R	
		87216R	
		87301R	
Tambo			
	Tambo	100183	320
Tara			
	Meandarra	15036R	160
	Moonie	34273R	65
	Tara	48507R	500
	The Gums	107656R	100
	Westmar	174816	60
Taroom			
	Guluguba		10
	Taroom	32735S	500
	Wandoan	15793N	400
		58700N	

Waggamba			
	Bungunya	77268H	50
	Goondiwindi	171830	380
		171833	
	Talwood	102840	300
	Toobeah	77155H	50
	Yelarbon	77266H	200
Wambo			
	Bell	64871R	100
		100499	
		94488R	
	Jandowae	87025R	140
		178659	
	Jimbour	56599R	50
	Warra	94143R	50
Warwick			
	Allora	80001T	10
	Dalveen	71921T	30
	Warwick	80370T	10
	Yangan	80781T	60
Winton			
	Winton	51918J	1135
	Corfield		30
Woorabinda			
	Woorabinda		460

ISBN 978-1-7417-2387-8