

APPENDIX A
PEAK HISTORIC AND DESIGN FLOOD FLOWS

**TABLE A1
TARCUTTA PEAK HISTORIC AND DESIGN FLOOD FLOWS⁽¹⁾**

Peak Flow Location Identifier ⁽²⁾	Tributary	Location	Historic Flood Events		Design Flood Events															
			October 2010	March 2012	5 year ARI		10 year ARI		20 year ARI		50 year ARI ⁽³⁾		100 year ARI ⁽³⁾		200 year ARI ⁽³⁾		500 year ARI ⁽³⁾		PMF	
					Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)
[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T]	[U]
Q1	Tarcutta Creek	Upstream Extent of Model	871	492	148	1080	328	1080	483	1080	787	1080	973	1080	1,173	1080	1,448	1080	12,550	180
Q2	Tarcutta Creek	Sydney Street Bridge No. 1 ⁽⁴⁾	444	268	92.2	1080	187	1080	268	1080	415 [405]	1080	459 [453]	1080	488 [482]	1080	512 [505]	1080	-	-
Q3	Tarcutta Creek	Sydney Street Bridge No. 2 ⁽⁵⁾	460	260	58.5	1080	164	1080	258	1080	432 [400]	1080	498 [466]	1080	532 [504]	1080	595 [571]	1080	-	-
Q4	Tarcutta Creek	Hume Highway Bridge No. 1	482	263	100	1080	177	1080	262	1080	432	1080	577	1080	691	1080	878	1080	-	-
Q5	Tarcutta Creek	Hume Highway Bridge No. 2	306	198	27.2	1080	124	1080	191	1080	294	1080	348	1080	401	1080	469	1080	-	-
Q6	Tarcutta Creek	Tarcutta Levee ⁽⁶⁾	0.3	0.0	0.0	-	0.0	-	0.0	-	1.2 [47.0]	1080	106 [143]	1080	264 [296]	1080	482 [512]	1080	-	-
Q7	Overland Flowpath	Toonga Street	1.5	0.3	1.8	180	2.5	180	3.7	180	5.1	60	6.5	60	8.1	60	10.3	60	50.2	15
Q8	Town Channel	Downstream Spring Street	2.0	0.4	2.0	180	2.9	180	4.3	180	6.1	60	7.8	60	9.7	60	12.1	60	-	-
Q9	Town Channel	Adjacent to Truck Stop	2.3	0.4	2.1	180	3.0	180	4.4	180	6.0	60	8.0	60	10.0	60	12.7	60	-	-
Q10	Overland Flowpath	Upstream Cynthia Street	0.2	0.0	0.2	180	0.3	180	0.4	180	0.6	60	0.7	60	0.8	60	1.1	60	-	-
Q11	Unnamed Tributary	Downstream Sydney Street	1.5	0.3	1.9	180	2.5	180	3.6	180	4.9	60	6.2	60	7.3	60	9.6	60	11.4	15

1. Peak flows less than 100 m³/s have been quoted to the first decimal place in order to show minor differences.
2. Refer relevant figures in **Volume 2** for peak flow locations.
3. Values in brackets [] represent levee failure conditions.
4. Peak flow includes flow through bridge structure and flow over Sydney Street between midpoint between Sydney Street Bridge No. 1 and 2 and the commencement of Old Tarcutta Inn Levee.
5. Peak flow includes flow through bridge structure and flow over Sydney Street between Hume Highway and midpoint between Sydney Street Bridges No. 1 and 2.
6. Peak flow includes flow across levee and flow across Sydney Street between commencement of Old Tarcutta Inn Levee and commencement of Tarcutta Levee.

TABLE A2
LADYSMITH PEAK HISTORIC AND DESIGN FLOOD FLOWS⁽¹⁾

Peak Flow Location Identifier ⁽²⁾	Tributary	Location	Historic Flood Events		Design Flood Events															
			October 2010	March 2012	5 year ARI		10 year ARI		20 year ARI		50 year ARI		100 year ARI		200 year ARI		500 year ARI		PMF	
					Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)
[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T]	[U]
Q1	Kyeamba Creek	Upstream Extent of Model	481	382	79.1	540	182	540	277	360	495	360	616	360	739	360	921	360	9,350	180
Q2	Kyeamba Creek	Railway Bridge No. 1 ⁽³⁾	474	384	33.4	540	71.2	540	125	360	242	360	318	360	403	360	512	360	5,695	180
Q3	Kyeamba Creek	Railway Bridge No. 2 ⁽⁴⁾			44.0	540	106	540	150	360	249	360	296	360	334	360	408	360	3,380	180
Q4	Wrights Gully	Tumbarumba Road	-	-	8.4	180	11.8	180	16.4	180	22.9	120	28.8	120	35.2	120	44.6	120	500	180
Q5	Overland Flow	Tywong Street upstream of Railway Line	-	-	2.0	120	2.7	180	3.8	60	6.0	60	7.7	60	9.6	60	12.2	60	-	-
Q6	Overland Flow	Tywong Street downstream of Railway Line	0.0	0.1	0.2	180	0.3	180	0.4	60	0.7	60	0.9	60	1.3	60	1.7	60	-	-
Q7	Overland Flow	Tarcutta Street upstream of Railway Line	-	-	0.5	25	0.7	25	1.1	25	1.6	25	2.1	25	2.6	25	3.1	25	-	-
Q8	Overland Flow	Flow at Tumbarumba Road	-	-	0.4	180	2.8	180	3.6	120	5.5	60	7.0	60	8.5	60	10.5	60	-	-
Q9	Overland Flow	Overland Flow downstream of Tumbarumba Road	-	-	0.2	180	0.3	180	0.5	120	0.9	60	1.9	60	3.1	60	4.5	60	-	-
Q10	Unnamed Tributary	Upstream Extent of Model	0.0	1.4	2.7	180	3.7	180	5.1	120	6.9	60	8.7	60	11.0	60	14.0	60	95	180
Q11	Unnamed Tributary	Western Flow Split	0.0	1.8	3.0	180	3.7	180	4.7	120	6.2	60	7.1	60	8.4	60	10.1	60	-	-
Q12	Unnamed Tributary	Eastern Flow Split	0.0	0.1	0.7	180	1.3	180	2.0	120	3.5	60	4.7	60	6.1	60	8.0	60	-	-
Q13	Unnamed Tributary	Tumbarumba Road	-	-	3.8	180	5.2	180	7.1	120	9.4	120	10.7	120	13.9	120	18.1	120	-	-

1. Peak flows less than 100 m³/s have been quoted to the first decimal place in order to show minor differences.
2. Refer relevant figures in **Volume 2** for peak flow locations.
3. Discharge hydrographs of Railway Bridge No. 2 include surcharge over railway embankment east of Railway Bridge No. 2.
4. Discharge hydrograph at Railway Bridge No. 1 include surcharge over railway embankment west of Railway Bridge No. 2

TABLE A3
URANQUINTY PEAK HISTORIC AND DESIGN FLOOD FLOWS⁽¹⁾

Peak Flow Location Identifier ⁽²⁾	Tributary	Location	Historic Flood Events		Design Flood Events															
			October 2010	March 2012	5 year ARI		10 year ARI ⁽³⁾		20 year ARI ⁽³⁾		50 year ARI ⁽³⁾		100 year ARI ⁽³⁾		200 year ARI ⁽³⁾		500 year ARI ⁽³⁾		PMF	
					Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)	Peak Flow (m ³ /s)	Critical Storm Duration (minutes)
[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T]	[U]
Q1	Sandy Creek	Upstream Extent of Model	172	123	21.8	540	50.7	360	76.0	360	136	360	168	360	201	360	248	360	2,640	180
Q2	Sandy Creek	Olympic Highway Bridge ⁽⁴⁾	153	121	22.4	540	51.0	360	76.8	360	129	360	153	360	172	360	197	360	-	-
Q3	Sandy Creek	Sydney - Melbourne Railway Bridge ⁽⁴⁾	164	124	22.4	540	51.0	360	76.8	360	132	360	164	360	187	360	214	360	-	-
Q4	Sandy Creek	Yarragundry Street Culvert ⁽⁴⁾	47.8	46.3	22.7	540	40.7	360	43.9	360	46.6	360	47.9	360	49.9	360	52.3	360	-	-
Q5	Overland Flow	Flow Across Deane Street (Town Levee (South))	19.9	6.0	0.0	-	0.0 [0.9]	360	0.0 [6.9]	360	8.9 [20.4]	360	19.3 [28.9]	360	30.4 [39.5]	360	47.5 [56.1]	360	-	-
Q6	Overland Flow	Flow Across Sydney-Melbourne Railway Line	2.8	0.0	0.0	-	0.0 [0.0]	-	0.0 [0.0]	-	0.0 [2.9]	360	2.9 [10.7]	360	13.2 [19.2]	360	31.7 [35.5]	360	-	-
Q7	Overland Flow	Behind 80 Connorton Street	6.9	4.2	4.2	180	5.9	360	8.0	360	11.4	120	14.3	120	17.6	120	22.3	120	133	180
Q8	Overland Flow	Flow Across Connorton Street	-	-	<0.1	180	1.3 [1.4]	360	2.0 [2.1]	360	3.4 [3.7]	120	5.1 [5.3]	120	6.3 [6.4]	120	8.6 [8.7]	120	-	-
Q9	Overland Flow	Flow Across Connorton Street	-	-	0.4	180	0.5 [0.5]	360	1.1 [1.5]	360	1.7 [1.9]	120	3.0 [3.1]	120	4.0 [4.3]	120	5.4 [5.7]	120	-	-
Q10	Overland Flow	Pearson Street Channel	2.2	0.8	1.2	180	2.3	180	2.6	180	2.7	120	2.9	90	3.0	120	3.2	120	-	-
Q11	Overland Flow	Flow Across Town Levee (North)	1.3	0.2	0.1	180	0.2 [0.3]	180	0.3 [0.9]	180	1.0 [2.8]	360	1.6 [10.7]	360	11.7 [20.3]	360	31.8 [38.2]	360	-	-

1. Peak flows less than 100 m³/s have been quoted to the first decimal place in order to show minor differences.
2. Refer relevant figures in **Volume 2** for peak flow locations.
3. Values in brackets [] represent levee failure conditions.
4. Denotes peak flow through structure only.