

Leigh Barrier Reservoir Balance Spreadsheet							
Real Time Mode							
Date	Reservoir Level (mAOD)	Inflow m³/s	Default Outflow (m³/s)	Manual Outflow (m³/s)	Rate of level rise (cm/hr)	Approx. side gate opening (individual, not combined) (m)	
24/12/2013 06:30	25.12	99.28	75.00	75	54.40	1.89	
24/12/2013 06:45	25.25	285.47	75.00	78	36.80	1.79	
24/12/2013 07:00	25.34	186.29	75.00	78	60.40	1.71	
24/12/2013 07:15	25.50	254.73	75.00	76	54.00	1.65	
24/12/2013 07:30	25.63	248.85	75.00	78	42.00	1.54	
24/12/2013 07:45	25.74	212.55	75.00	79	34.00	1.49	
24/12/2013 08:00	25.82	192.02	75.00	78	68.40	1.45	
24/12/2013 08:15	25.99	342.29	75.00	84.37	37.60	1.53	
24/12/2013 08:30	26.09	228.73	75.00	86.03	42.80	1.60	
24/12/2013 08:45	26.19	269.31	75.00	87.88	37.60	1.56	
24/12/2013 09:00	26.29	251.59	75.00	89.48	36.00	1.53	
24/12/2013 09:15	26.38	246.21	75.00	90.98	26.80	1.60	
24/12/2013 09:30	26.44	222.67	75.00	92.08	45.20	1.56	
24/12/2013 09:45	26.56	331.36	75.00	100.00	34.80	1.73	
24/12/2013 10:00	26.64	282.18	75.00	102.00	24.80	1.70	
24/12/2013 10:15	26.71	235.42	75.00	109.04	17.60	1.76	
24/12/2013 10:30	26.75	208.04	75.00	109.87	27.20	1.76	
24/12/2013 10:45	26.82	263.30	75.00	112.00	30.40	1.83	
24/12/2013 11:00	26.89	283.29	75.00	114.00	23.20	1.83	
24/12/2013 11:15	26.95	244.58	75.00	115.24	33.60	1.89	
24/12/2013 11:30	27.04	310.37	75.00	119.00	26.00	1.85	
24/12/2013 11:45	27.10	274.49	75.00	120.00	24.00	1.91	
24/12/2013 12:00	27.16	264.36	75.00	122.59	19.60	1.91	
24/12/2013 12:15	27.21	239.88	75.00	123.50	17.60	1.88	
24/12/2013 12:30	27.25	229.20	75.00	124.28	23.60	1.88	
24/12/2013 12:45	27.31	273.24	75.00	125.30	14.40	1.94	
24/12/2013 13:00	27.35	223.34	75.00	140.21	15.20	2.22	
24/12/2013 13:15	27.39	236.53	75.00	141.63	16.00	2.22	
24/12/2013 13:30	27.43	242.76	75.00	142.60	16.00	2.18	
24/12/2013 13:45	27.47	243.65	75.00	143.41	22.40	2.18	
24/12/2013 14:00	27.52	288.69	75.00	144.51	14.00	2.18	
24/12/2013 14:15	27.56	239.39	75.00	145.96	14.80	2.27	
24/12/2013 14:30	27.59	245.50	75.00	145.96	5.20	2.27	
24/12/2013 14:45	27.61	181.12	75.00	146.34	6.80	2.27	
24/12/2013 15:00	27.62	198.50	75.00	159.20	5.20	2.47	
24/12/2013 15:15	27.64	194.44	75.00	159.74	8.40	2.47	
24/12/2013 15:30	27.66	216.24	75.00	159.74	8.40	2.47	
24/12/2013 15:45	27.68	216.70	75.00	160.67	8.40	2.56	
24/12/2013 16:00	27.70	217.40	75.00	161.14	11.60	2.56	
24/12/2013 16:15	27.73	233.21	75.00	149.24	11.60	2.27	
24/12/2013 16:30	27.76	225.03	75.00	149.81	6.80	2.27	
24/12/2013 16:45	27.78	190.35	75.00	150.11	9.60	2.37	
24/12/2013 17:00	27.80	207.38	75.00	150.61	0.00	2.37	
24/12/2013 17:15	27.80	152.21	75.00	153.81	16.40	2.37	
24/12/2013 17:30	27.84	245.62	75.00	142.61	8.40	2.18	
24/12/2013 17:45	27.86	192.71	75.00	143.03	5.60	2.18	
24/12/2013 18:00	27.88	176.41	75.00	143.27	11.20	2.18	
24/12/2013 18:15	27.90	207.64	75.00	138.96	3.60	2.09	
24/12/2013 18:30	27.91	160.42	75.00	139.11	12.80	2.09	
24/12/2013 18:45	27.94	212.13	75.00	133.09	5.20	2.00	
24/12/2013 19:00	27.96	162.66	75.00	130.45	9.60	2.00	
24/12/2013 19:15	27.98	185.27	75.00	126.05	11.20	1.91	
24/12/2013 19:30	28.01	190.23	75.00	121.36	8.40	1.82	
24/12/2013 19:45	28.03	171.41	75.00	121.67	2.00	1.82	
24/12/2013 20:00	28.04	137.38	75.00	129.33	-2.80	1.91	
24/12/2013 20:15	28.03	121.80	75.00	147.54	-2.40	2.27	
24/12/2013 20:30	28.02	133.22	75.00	147.40	0.40	2.27	
24/12/2013 20:45	28.02	149.79	75.00	147.42	-1.20	2.27	
24/12/2013 21:00	28.02	140.26	75.00	147.36	0.40	2.27	
24/12/2013 21:15	28.02	149.73	75.00	147.35	3.60	2.27	
24/12/2013 21:30	28.03	163.83	75.00	137.55	0.00	2.09	
24/12/2013 21:45	28.03	137.55	75.00	137.55	0.40	2.09	
24/12/2013 22:00	28.03	139.94	75.00	137.57	0.40	2.09	
24/12/2013 22:15	28.03	139.96	75.00	137.59	0.00	2.09	
24/12/2013 22:30	28.03	137.59	75.00	137.59	-0.80	2.09	

Appendix C to the proof of Andrew Irvine

24/12/2013 22:45	28.03	132.82	75.00	137.55	-0.80	2.09
24/12/2013 23:00	28.03	132.77	75.00	137.49	-1.60	2.09
24/12/2013 23:15	28.02	127.97	75.00	137.46	-1.60	2.09
24/12/2013 23:30	28.02	127.92	75.00	137.39	-2.00	2.09
24/12/2013 23:45	28.02	125.47	75.00	137.31	-2.00	2.09
25/12/2013 00:00	28.01	125.39	75.00	137.23	-2.80	2.09
25/12/2013 00:15	28.00	120.54	75.00	137.11	-4.40	2.09
25/12/2013 00:30	27.99	110.89	75.00	136.93	-3.20	2.09
25/12/2013 00:45	27.98	117.86	75.00	136.80	1.60	2.09
25/12/2013 01:00	27.99	140.36	75.00	124.91	-0.80	1.82
25/12/2013 01:15	27.99	120.14	75.00	124.88	-1.60	1.82
25/12/2013 01:30	27.98	115.35	75.00	124.82	-2.40	1.82
25/12/2013 01:45	27.98	110.53	75.00	124.74	-2.80	1.82
25/12/2013 02:00	27.97	108.05	75.00	124.63	-2.00	1.82
25/12/2013 02:15	27.96	112.72	75.00	124.56	-5.20	1.82
25/12/2013 02:30	27.95	93.58	75.00	124.37	-0.40	1.82
25/12/2013 02:45	27.95	121.99	75.00	124.37	-6.00	1.82
25/12/2013 03:00	27.94	88.62	75.00	124.14	-2.40	1.82
25/12/2013 03:15	27.93	109.84	75.00	124.05	-4.00	1.82
25/12/2013 03:30	27.92	100.22	75.00	123.90	-2.80	1.82
25/12/2013 03:45	27.91	107.19	75.00	123.74	-5.20	1.82
25/12/2013 04:00	27.90	92.79	75.00	123.61	-4.40	1.82
25/12/2013 04:15	27.89	97.40	75.00	123.45	-6.00	1.82
25/12/2013 04:30	27.87	87.70	75.00	123.22	-6.80	1.82
25/12/2013 04:45	27.86	82.71	75.00	122.97	-1.20	1.82
25/12/2013 05:00	27.85	115.82	75.00	122.92	-6.00	1.82
25/12/2013 05:15	27.84	87.24	75.00	122.83	-3.20	1.82
25/12/2013 05:30	27.83	103.76	75.00	122.71	-8.80	1.82
25/12/2013 05:45	27.81	70.28	75.00	122.39	-4.00	1.82
25/12/2013 06:00	27.80	98.56	75.00	122.24	-11.60	1.82
25/12/2013 06:15	27.77	53.12	75.00	121.80	-4.40	1.82
25/12/2013 06:30	27.76	95.59	75.00	121.64	-6.40	1.82
25/12/2013 06:45	27.74	80.99	75.00	121.40	-6.00	1.82
25/12/2013 07:00	27.73	80.93	75.00	121.17	1.20	1.82
25/12/2013 07:15	27.73	129.27	75.00	121.22	-12.40	1.82
25/12/2013 07:30	27.70	37.60	75.00	120.77	0.40	1.82
25/12/2013 07:45	27.70	123.46	75.00	120.77	-11.20	1.82
25/12/2013 08:00	27.67	45.23	75.00	120.34	-8.00	1.82
25/12/2013 08:15	27.65	66.38	75.00	120.04	-5.60	1.82
25/12/2013 08:30	27.64	82.27	75.00	119.83	-8.00	1.74
25/12/2013 08:45	27.62	65.88	75.00	119.55	0.80	1.74
25/12/2013 09:00	27.62	124.93	75.00	119.55	-18.40	1.74
25/12/2013 09:15	27.57	0.00	75.00	118.85	0.00	1.74
25/12/2013 09:30	27.57	118.50	75.00	118.14	-1.60	1.74
25/12/2013 09:45	27.57	107.38	75.00	118.14	-18.80	1.74
25/12/2013 10:00	27.52	0.00	75.00	118.06	-11.20	1.74
25/12/2013 10:15	27.50	43.40	75.00	117.65	-6.80	1.74
25/12/2013 10:30	27.48	74.72	75.00	117.34	-8.40	1.74
25/12/2013 10:45	27.46	64.35	75.00	117.04	-7.20	1.74
25/12/2013 11:00	27.44	71.61	75.00	116.76	-9.20	1.74
25/12/2013 11:15	27.42	58.70	75.00	116.38	-9.60	1.74
25/12/2013 11:30	27.39	55.80	75.00	115.99	-13.20	1.76
25/12/2013 11:45	27.36	32.71	75.00	115.50	-6.00	1.76
25/12/2013 12:00	27.34	77.76	75.00	115.50	-6.80	1.76
25/12/2013 12:15	27.33	72.48	75.00	115.00	-15.60	1.76
25/12/2013 12:30	27.29	16.56	75.00	114.38	-2.00	1.70
25/12/2013 12:45	27.28	101.74	75.00	114.27	-5.60	1.70
25/12/2013 13:00	27.27	78.94	75.00	114.07	-15.60	1.70
25/12/2013 13:15	27.23	18.56	75.00	114.05	-6.40	1.70
25/12/2013 13:30	27.21	75.47	75.00	113.19	-9.60	1.70
25/12/2013 13:45	27.19	55.70	75.00	112.66	-8.40	1.73
25/12/2013 14:00	27.17	62.42	75.00	112.33	-10.40	1.73
25/12/2013 14:15	27.14	50.12	75.00	111.90	-9.60	1.73
25/12/2013 14:30	27.12	54.48	75.00	111.51	-10.80	1.73
25/12/2013 14:45	27.09	46.91	75.00	111.07	-10.40	1.76
25/12/2013 15:00	27.07	48.86	75.00	110.65	-10.40	1.76
25/12/2013 15:15	27.04	48.44	75.00	110.22	-10.00	1.76
25/12/2013 15:30	27.02	50.40	75.00	109.80	-21.20	1.67
25/12/2013 15:45	26.96	0.00	75.00	119.08	-10.40	1.89
25/12/2013 16:00	26.94	60.58	75.00	118.59	-16.40	1.89
25/12/2013 16:15	26.90	26.57	75.00	118.28	-9.60	1.93
25/12/2013 16:30	26.87	64.04	75.00	117.36	-15.60	1.93
25/12/2013 16:45	26.83	29.60	75.00	116.61	-11.60	1.93