Appendix 14-A. Climate Change Modelling Inputs (DERM, 2009)

Table 14-1 Adopted Monthly Climate Change Percentage Rainfall Adjustments for the Median, 10th-percentile and 90th-percentile Climate Change Models (Scenario A1FI 2050) – Dawson Callide

	Climate Change Model		
	UKMO_HADGEM1 SRES A2	IAP_FGOALS1_0_g_SRES A1B	MIUB_echo_g_SRES A2
	90th Percentile	50th Percentile	10th Percentile
	% Change	% Change	% Change
January	-9.3	-1.2	16.4
February	-3.0	3.9	8.6
March	-7.2	4.1	14.4
April	-21.0	-15.3	6.2
May	-29.6	-12.9	7.2
June	-27.9	-17.9	-7.6
July	-13.7	-6.0	-5.2
August	-29.1	-10.6	-24.9
September	-28.1	-12.7	-24.9
October	-10.3	-6.4	-5.6
November	-22.5	0.4	15.4
December	-4.8	-5.1	18.3

Table 14-2 Adopted Monthly Climate Change Percentage Rainfall Adjustments for the Median, 10th-percentile and 90th-percentile Climate Change Models (Scenario A1FI 2050) – Isaac Connors

	Climate Change Model		
	UKMO_HADGEM1 SRES A2	IAP_FGOALS1_0_g_SRES A1B	MIUB_echo_g_SRES A2
	90th Percentile	50th Percentile	10th Percentile
	% Change	% Change	% Change
January	-13.8	-4.1	20.3
February	-7.7	2.3	10.3
March	-11.4	2.4	8.9
April	-23.5	-13.0	2.3
May	-28.1	-14.6	2.1
June	-28.5	-14.7	-5.4
July	-20.2	-3.3	-4.7
August	-34.5	-11.3	-22.1
September	-32.5	-13.3	-22.0
October	-12.2	-8.6	-13.4
November	-40.7	-3.3	16.4
December	-13.4	-5.2	21.4

Table 14-3 Adopted Monthly Climate Change Percentage Rainfall Adjustments for the Median, 10th-percentile and 90th-percentile Climate Change Models (Scenario A1FI 2050) – Nogoa Mackenzie

	Climate Change Model		
	UKMO_HADGEM1 SRES A2	IAP_FGOALS1_0_g_SRES A1B	MIUB_echo_g_SRES A2
	90th Percentile	50th Percentile	10th Percentile
	% Change	% Change	% Change
January	-6.9	-2.1	18.2
February	-8.3	2.2	10.8
March	-5.0	4.3	12.0
April	-18.6	-15.9	9.5
May	-33.7	-15.8	8.0
June	-24.8	-17.8	-4.3
July	-15.1	-3.7	-4.2
August	-34.8	-11.1	-22.8
September	-28.4	-14.7	-24.9
October	-9.5	-6.6	-8.1
November	-26.5	-0.5	18.5
December	-6.4	-5.8	19.8

Table 14-4 Adopted Monthly Climate Change Percentage Rainfall Adjustments for the Median, 10th-percentile and 90th-percentile Climate Change Models (Scenario A1FI 2050) – Lower Fitzroy

	Climate Change Model		
	UKMO_HADGEM1 SRES A2	IAP_FGOALS1_0_g_SRES A1B	MIUB_echo_g_SRES A2
	90th Percentile	50th Percentile	10th Percentile
	% Change	% Change	% Change
January	-16.4	-2.8	18.9
February	-5.7	4.1	8.6
March	-13.1	2.5	10.2
April	-23.7	-12.9	-0.2
May	-27.5	-13.5	1.5
June	-28.3	-15.4	-9.9
July	-19.9	-4.2	-5.9
August	-31.0	-12.4	-24.7
September	-33.0	-13.1	-23.1
October	-13.4	-8.6	-12.1
November	-37.8	-3.5	13.8
December	-10.8	-3.8	20.6

Table 14-5 Adopted Monthly Climate Change Percentage Evaporation Adjustments for the Median, 10th-percentile and 90th-percentile Climate Change Models (Scenario A1FI 2050) – Dawson Callide

	Climate Change Model		
	UKMO_HADGEM1 SRES A2	IAP_FGOALS1_0_g_SRES A1B	MIUB_echo_g_SRES A2
	90th Percentile	50th Percentile	10th Percentile
	% Change	% Change	% Change
January	7.3	5.3	4.8
February	8.6	4.4	4.2
March	8.8	5.2	3.5
April	9.0	7.2	2.1
May	9.9	8.7	3.4
June	10.3	8.4	5.5
July	7.4	6.7	3.9
August	5.7	6.4	3.5
September	6.2	5.9	6.6
October	5.1	5.0	5.6
November	5.9	5.2	4.1
December	8.2	5.4	3.6

Table 14-6 Adopted Monthly Climate Change Percentage Evaporation Adjustments for the Median, 10th-percentile and 90th-percentile Climate Change Models (Scenario A1FI 2050) – Isaac Connors

	Climate Change Model		
	UKMO_HADGEM1 SRES A2	IAP_FGOALS1_0_g_SRES A1B	MIUB_echo_g_SRES A2
	90th Percentile	50th Percentile	10th Percentile
	% Change	% Change	% Change
January	6.7	5.4	5.1
February	8.2	4.2	4.3
March	8.4	5.0	3.8
April	9.0	7.9	3.2
May	10.6	8.8	3.6
June	11.3	8.0	4.6
July	8.2	6.0	3.3
August	7.7	6.1	2.9
September	7.9	6.1	5.2
October	7.0	5.4	4.4
November	7.5	5.5	3.7
December	8.5	5.1	3.5

Table 14-7 Adopted Monthly Climate Change Percentage Evaporation Adjustments for the Median, 10th-percentile and 90th-percentile Climate Change Models (Scenario A1FI 2050) – Nogoa Mackenzie

	Climate Change Model		
	UKMO_HADGEM1 SRES A2	IAP_FGOALS1_0_g_SRES A1B	MIUB_echo_g_SRES A2
	90th Percentile	50th Percentile	10th Percentile
	% Change	% Change	% Change
January	7.2	5.3	4.6
February	8.8	4.6	4.9
March	9.4	5.2	6.2
April	8.4	6.7	4.7
May	9.1	8.2	5.6
June	10.4	8.5	5.6
July	6.3	6.5	5.4
August	5.5	6.3	4.9
September	6.4	5.3	1.9
October	5.6	5.0	2.3
November	6.0	5.4	2.9
December	8.5	5.3	3.9

Table 14-8 Adopted Monthly Climate Change Percentage Evaporation Adjustments for the Median, 10th-percentile and 90th-percentile Climate Change Models (Scenario A1FI 2050) – Lower Fitzroy

	Climate Change Model		
	UKMO_HADGEM1 SRES A2	IAP_FGOALS1_0_g_SRES A1B	MIUB_echo_g_SRES A2
	90th Percentile	50th Percentile	10th Percentile
	% Change	% Change	% Change
January	6.3	5.2	5.0
February	7.5	3.9	4.5
March	7.6	4.7	4.3
April	8.7	8.0	4.2
May	10.0	8.7	4.8
June	10.6	7.6	6.0
July	8.2	6.1	4.6
August	7.6	6.1	3.3
September	7.3	6.0	5.0
October	6.7	4.9	3.9
November	7.1	5.1	3.2
December	8.0	4.7	3.1