RD0032 Ross River Dam Emergency Action Plan

Authorised by: Principal Dam Safety & Operations N02632

Appendix C Equipment and Technical Information

Part 1: Checklists and Instructions

Equipment available during an emergency C1

Part 2: Technical Information – Gate Openings, Spillway and Tailwater Data

- C2 Ross River Dam Flood Rules С3 Ross River Dam Gate Openings C4 Ross River Dam Gate discharges
- **C5** Ross River Dam Free Overflow Discharges
- C6 Ross River Dam Discharge - One or More Gates
- Ross River Dam Storage Curve **C7**

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Part 1: Equipment Available During an Emergency

Appendix C1: Earthworks Equipment, Helicopters, Boats and Cranes

Earthworks Equipment

All emergency equipment hire is to be arranged through TCC RPA service preapproved supplier services.

Note: In addition to the further resources can be accessed through Local, District, and State Disaster Management framework, if and when each Local Disaster Management Group is activated. See relevant pages in communication lists for contact details.

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Part 2: Technical Information - Gate Openings, Spillway and Tailwater Data

Appendix C2: Ross River Dam-Flood Rules

The operation of the gates on Ross River Dam is directly related to the water level in the reservoir.

Table C1: Critical Levels

Item	EL (m AHD)
Spillway Crest Level	34.65
Full Supply Level	38.55
Gate Trigger Level	38.65
Top of Spillway Gate (Closed)	39.05
Limit of Hydrostatic Load	40.05 ⁵
Limit of D/S Channel Capacity (Under normal operating conditions)	42.50
Dam Crest Level	48.00

Note: The data presented in the following Appendices is taken from DOMM-004, Detailed Operating and Maintenance Procedure for Supervisory Control and Data Acquisition System. The Limit of Hydrostatic Load EL 40.05m at Ross River Dam is related to the design hydrostatic load limit that the gates can withstand if they fail to open as designed.

This level is only relevant if one or more of the spillway gates fails to open when required. It is equivalent to 1.0m of water overtopping the gates when closed.

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⁵ Stage 2 to 5, Spillway and Stilling Basin Design Report (September 2005, GHD)





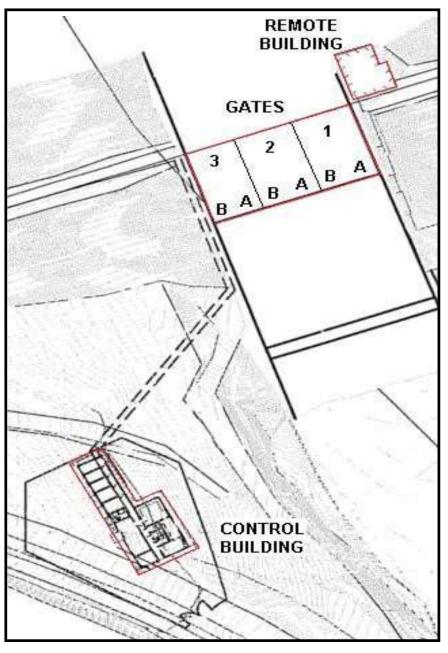
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Appendix C2: Flood Rules

Flood discharges are controlled by the 3 spillway gates, shown in Figure C1, for lake levels less than EL 43.00 m. Gates 1, 2 & 3 may also be referred to as Left, Centre and Right respectively.

For lake levels equal to and above EL 43.00 m, the spillway gates are to be fully open with free discharge over the crest of the spillway.





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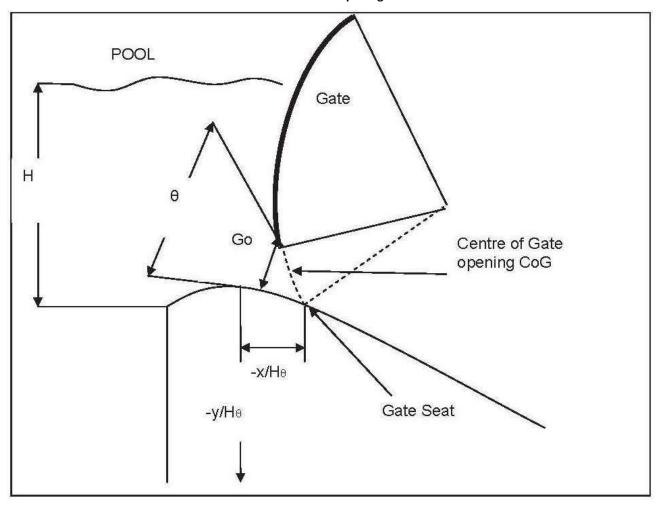
Townsville City Council RD0032 Ross River Dam Emergency Action Plan

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Appendix C3: Ross River Dam Gate Openings

Gate opening (G_o) is defined as the distance between the bottom of the gate skin plate and the dam crest tangent line at the elevation of the gate seating position as shown below.

Ross River Dam Gate Opening Definition



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Table C2 below presents the relationships between gate opening and the change of gate arm angle.

Table C2:Gate Opening Relationship - 2012

Gate Opening G _o (m)	Gate Arm Angle Change (Degrees)
0.00	0.000
0.25	2.170
0.50	4.170
0.75	6.050
1.00	7.830
1.25	9.530
1.50	11.170
1.75	12.760
2.00	14.310
2.25	15.810
2.50	17.290
2.75	18.740
3.00	20.170
3.25	21.580
3.50	22.970
3.75	24.330
4.00	25.656
4.25	26.981
4.50	28.305
4.75	29.630
5.00	30.954
5.25	32.278
5.50	33.603
5.75	34.927
6.00	36.252
6.25	37,576
6.50	38.900
6.75	40.225
7.00	41.549
7.25	42.874
7.50	44.198
11.50	65.388



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Appendix C4: Ross River Dam Gate Discharges

Discharge values and the corresponding gate openings are shown in Table C3 and Table C4.

Table C3: Gate openings & discharges—water level rising 250mm increments – 2016

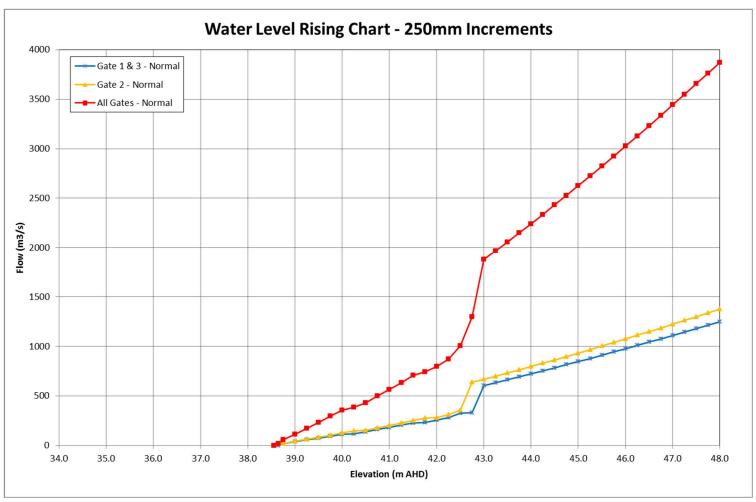
Headwater	(Managara Cara Cara Cara Cara Cara Cara Cara	Headwater Level	Gate	Opening G	。(m)		2016 Disch	narge (m3/s)
Level 2012	(m above FSL)	(m above	Left	Centre	Right	Left	Centre	Right	7.4.1
(m AHD)	(III above F3L)	Spillway)	1	2	3	1	2	3	Total
38.55	0	3.89	0	0	0	0	0	0	0
38.65	0.1	3.99	0	0.25	0	0	20	0	20
38.75	0.2	4.09	0.25	0.25	0.25	18	20	18	57
39	0.45	4.34	0.5	0.5	0.5	37	41	37	114
39.25	0.7	4.59	0.75	0.75	0.75	56	61	56	173
39.5	0.95	4.84	1	1	1	75	83	75	232
39.75	1.2	5.09	1.25	1.25	1.25	95	104	95	293
40	1.45	5,34	1.5	1.5	1.5	115	126	115	356
40.25	1.7	5.59	1.5	1.75	1.5	118	149	118	385
40.5	1.95	5.84	1.75	1.75	1.75	139	153	139	431
40.75	2.2	6.09	2	2	2	160	177	160	497
41	2.45	6.34	2.25	2.25	2.25	182	201	182	565
41.25	2.7	6.59	2.5	2.5	2.5	205	225	205	635
41.5	2.95	6.84	2.75	2.75	2.75	228	251	228	706
41.75	3.2	7.09	2.75	3	2.75	233	276	233	742
42	3.45	7.34	3	3	3	256	282	256	795
42.25	3.7	7.59	3.25	3.25	3.25	281	309	281	870
42.5	3.95	7.84	3.75	3.75	3.75	324	356	324	1003
42.75	4.2	8.09	3.75	11.5	3.75	330	636	330	1296
43	4.45	8.34	11.5	11.5	11.5	605	667	605	1877
43.25	4.7	8.59	11.5	11.5	11.5	634	698	634	1966
43.5	4.95	8,84	11.5	11.5	11.5	663	730	663	2056
43.75	5.2	9.09	11.5	11.5	11.5	692	763	692	2148
44	5.45	9.34	11.5	11.5	11.5	722	796	722	2241
44.25	5.7	9.59	11.5	11.5	11.5	753	829	753	2335
44.5	5.95	9.84	11.5	11.5	11.5	784	863	784	2430
44.75	6.2	10.09	11.5	11.5	11.5	815	898	815	2527
45	6.45	10.34	11.5	11.5	11.5	846	932	846	2625
45.25	6.7	10.59	11.5	11.5	11.5	878	967	878	2724
45.5	6.95	10.84	11.5	11.5	11.5	910	1003	910	2823
45.75	7.2	11.09	11.5	11.5	11.5	943	1039	943	2924
46	7.45	11.34	11.5	11.5	11.5	976	1075	976	3026
46.25	7.7	11.59	11.5	11.5	11.5	1009	1111	1009	3129
46.5	7.95	11.84	11.5	11.5	11.5	1042	1148	104	3233
46.75	8.2	12.09	11.5	11.5	11.5	1076	1185	107	3337
47	8.45	12.34	11.5	11.5	11.5	1110	1223	111	3442
47.25	8.7	12.59	11.5	11.5	11.5	1144	1260	114	3548
47.5	8.95	12.84	11.5	11.5	11.5	1178	1298	117	3655
47.75	9.2	13.09	11.5	11.5	11,5	1213	1336	121	3763
48	9.45	13.34	11.5	11.5	11.5	1248	1375	124	3871

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Spillway Discharge - Water Level Rising 2016



As the lake level falls the total discharge shall be progressively reduced so that at any given level the discharge does not exceed the value for the next higher lake level range. There is less risk of the gates "hunting" if gate openings on the falling limb of a flood remain at the highest lake level setting for the first fall in lake level. The gate openings are set for the next higher lake level reached given in Table C3 as the lake continues to fall.





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Table C4: Gate Openings & Discharges – Water Level Falling 250mm Increments

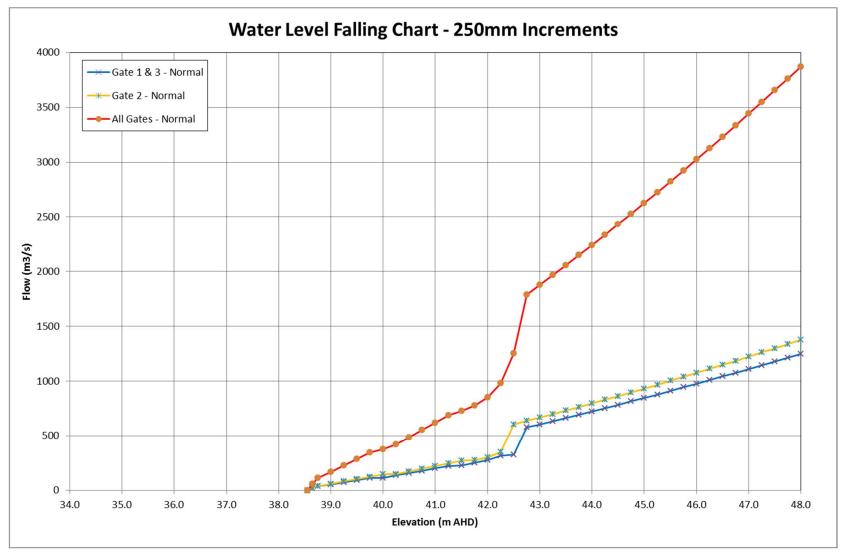
Headwater	Handwater front	Headwater Level	Gate	e Opening G	。(m)		2016 Disch	arge (m3/s)
Level 2012	(m above FSL)	(m above	Left	Centre	Right	Left	Centre	Right	
(m AHD)	(m above rst)	Spillway)	1	2	3	1	2	3	Total
38.55	0	3.89	0	0	.0	0	0	0	0
38.65	0.1	3.99	0.25	0.25	0.25	18	20	18	56
38.75	0.2	4.09	0.5	0.5	0.5	36	39	36	111
39	0.45	4.34	0.75	0.75	0.75	54	60	54	168
39.25	0.7	4.59	1	1	1	73	80	73	226
39.5	0.95	4.84	1.25	1.25	1.25	92	101	92	285
39.75	1.2	5.09	1.5	1.5	1.5	112	123	112	346
40	1.45	5.34	1.5	1.75	1.5	115	145	115	375
40.25	1.7	5.59	1.75	1.75	1.75	135	149	135	420
40.5	1.95	5.84	2	2	2	156	172	156	485
40.75	2.2	6.09	2.25	2.25	2.25	178	196	178	552
41	2.45	6.34	2.5	2.5	2.5	200	220	200	620
41.25	2.7	6.59	2.75	2.75	2.75	222	245	222	690
41.5	2.95	6.84	2.75	3	2.75	228	270	228	725
41.75	3.2	7.09	3	3	3	251	276	251	778
42	3.45	7.34	3.25	3.25	3.25	275	303	275	852
42.25	3.7	7.59	3.75	3,75	3.75	317	349	317	982
42.5	3.95	7.84	3.75	11.5	3.75	324	605	324	1252
42.75	4.2	8.09	11.5	11.5	11.5	577	636	577	1789
43	4.45	8.34	11.5	11.5	11.5	605	667	605	1877
43.25	4.7	8.59	11.5	11.5	11.5	634	698	634	1966
43.5	4.95	8.84	11.5	11.5	11.5	663	730	663	2056
43.75	5.2	9.09	11.5	11.5	11.5	692	763	692	2148
44	5.45	9.34	11.5	11.5	11.5	722	796	722	2241
44.25	5.7	9.59	11.5	11.5	11.5	753	829	753	2335
44.5	5.95	9.84	11.5	11.5	11.5	784	863	784	2430
44.75	6.2	10.09	11.5	11.5	11.5	815	898	815	2527
45	6.45	10.34	11.5	11.5	11.5	846	932	846	2625
45.25	6.7	10.59	11.5	11.5	11.5	878	967	878	2724
45.5	6.95	10.84	11.5	11.5	11.5	910	1003	910	2823
45.75	7.2	11.09	11.5	11.5	11.5	943	1039	943	2924
46	7.45	11.34	11.5	11.5	11.5	976	1075	976	3026
46.25	7.7	11.59	11.5	11.5	11.5	1009	1111	1009	3129
46.5	7.95	11.84	11.5	11.5	11.5	1042	1148	1042	3233
46.75	8.2	12.09	11.5	11.5	11.5	1076	1185	1076	3337
47	8.45	12.34	11.5	11.5	11.5	1110	1223	1110	3442
47.25	8.7	12.59	11.5	11.5	11.5	1144	1260	1144	3548
47.5	8.95	12.84	11.5	11.5	11.5	1178	1298	1178	3655
47.75	9.2	13.09	11.5	11.5	11.5	1213	1336	1213	3763
48	9.45	13.34	11.5	11.5	11.5	1248	1375	1248	3871

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Spillway Discharge - Water Level Falling - 2016







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Appendix C5: Ross River Dam Free Overflow Discharges

Table C5 shows the flow over the spillway which would result if the gates were fully opened at the commencement of spill.

Table C5: Free overflow discharges - 2016

Headwater	Headwater Level		Disc	harge (m3	/s)
Level (m	(m above	Left	Centre	Right	Total
AHD)	Spillway)	11	2	3	TOTA
34.656	0	0	0	0	0
34.75	0.09	1	1	1	2
35	0.34	4	5	4	14
35.5	0.84	17	19	17	54
35.75	1.09	26	28	26	80
36	1.34	35	39	35	109
36.25	1.59	46	50	46	142
36.5	1.84	57	63	57	177
36.75	2.09	69	77	69	215
37	2.34	83	91	83	257
37.25	2.59	97	107	97	300
37.5	2.84	112	123	112	346
37.75	3.09	127	140	127	395
38	3.34	144	158	144	446
38.25	3.59	161	177	161	499
38.5	3.84	179	197	179	554
38.75	4.09	197	217	197	612
39	4.34	216	238	216	671
39.25	4.59	236	260	236	733
39.5	4.84	257	283	257	797
39.75	5.09	278	306	278	863
40	5.34	300	330	300	930
40.25	5.59	322	355	322	1000
40.5	5.84	345	380	345	1071
40.75	6.09	369	406	389	1144
41	6.34	393	433	393	1219
41.25	6.59	418	460	418	1296
41.5	6.84	443	488	443	1374
41.75	7.09	469	516	469	1454
42	7.34	495	545	495	1535
42.25	7.59	522	575	522	1618
42.5	7.84	549	805	549	1703
42.75	8.09	577	636	577	1789
43	8.34	605	667	605	1877
43.25	8.59	634	698	634	1966
43.5	8.84	663	730	683	2056
43.75	9.09	692	763	692	2148
44	9.34	722	796	722	2241
44.25	9.59	753	829	753	2335
44.5	9.84	784	863	784	2430
44.75	10	815	898	815	2527
45	10.3	846	932	846	2825
45.25	10.5	878	967	878	2724
45.25	10.8	910	1003	C 900000	2823
2-7.65				910	
45.75	11	943	1039	943	2924
46 25	11.3	976	1075	976	3026
46.25	11.5	1009	1111	1009	3129
46.5	11.8	1042	1148	1042	3233
46.75	12	1076	1185	1076	3337
47	12.3	1110	1223	1110	3442
47.25	12.5	1144	1260	1144	3548
47.5	12.8	1178	1298	1178	3655
47.75	13	1213	1336	1213	3763
48	13.3	1248	1375	1248	3871

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Table C6: Discharge for Central Gate only (m3/s) - 2016

														ening (m)												
	0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75 Eleva	3.00	e of gate openi	na (m)											
	34.252	34.46	34.65	34.82	34.99	35.15	35.30	35.45	35.59	35.73	35.87	36.00	36.13	36.26	36.39	36.52	36.65	36.77	36.90	37.15	37.40	37.65	37.90	38.15	38.40	40.389
[levation at T	op of Gate (n	n)											
Lake Level	39.03	39.44	39.82	40.18	40.52	40.85	41.16	41.47	41.76	42.05	42.33	42.61	42.88	43.15	43.41	43.67	43.93	44.17	44.42	44.90	45.37	45.82	46.27	46.71	47.13	50.11
48.00	594	589	588	589	592	597	603	610	618	627	637	647	658	669	681	693	705	719	733	761	790	821	853	886	921	1375
47.75		565	564	565	568	573	580	587	595	604	614	624	635	646	658	671	683	697	711	739	769	800	833	866	902	1336
47.50 47.25	545 521	541	540	542	545	550 527	556	564	572	581	591	601	612	624	636	649	661	675	689	718	748	780	813 794	847	884	1298 1260
47.25 47.00	497	517 494	517 493	518 495	522 499	527 505	534 511	541 519	550 527	559 537	569 547	579 558	591 569	602 581	615 593	627 606	640 619	654 633	668 647	697 677	728 708	760 741	794 776	829 813	868 855	1260
46.75		471	471	473	477	483	489	497	506	515	526	537	548	560	573	586	599	613	628	658	690	723	759	798	842	1185
46.50	451	448	448	451	455	461	468	476	485	494	505	516	528	540	552	566	579	594	608	639	671	706	743	786	829	1148
46.25	429	426	427	429	434	440	447	455	464	474	484	496	507	520	533	546	560	575	590	621	654	690	730	774	817	1111
46.00 45.75	407 385	404 383	405 384	408 387	412 392	419 398	426 406	434 414	444 424	454 434	464 445	476 457	488 469	501 482	514 495	528 509	541 523	556 539	572 554	604 587	638 623	675 664	719 708	762 750	803 790	1075 1039
45.50	364	362	363	367	372	378	386	395	404	415	426	438	451	464	477	492	506	522	538	572	609	653	696	737	777	1003
45.25	343	341	343	346	352	359	367	376	386	396	408	420	433	446	460	475	489	506	522	558	599	643	685	725	763	967
45.00	322	321	323	327	333	340	348	357	367	378	390	402	415	429	443	458	474	490	508	545	589	632	673	712	749	932
44.75 44.50	302 283	302 282	304 285	308 289	314 295	321 303	330 312	339 321	349 332	361 344	373 356	385 369	399 383	413 397	428 412	443 429	459 445	476 463	494 483	536 527	579 569	621 610	661 649	699 685	734 720	898 863
44.25	264	264	266	209	295	285	294	304	315	327	340	353	368	383	398	415	433	452	474	518	559	599	636	672	705	863 829
44.00	245	245	248	253	260	268	278	288	299	312	325	339	353	369	385	403	422	444	466	508	549	587	624	658	690	796
43.75	227	227	231	236	243	252	262	272	284	297	310	324	340	356	373	392	414	436	458	499	539	576	611	644	674	763
43.50 43.25	209 192	210 193	214 197	220 204	227 211	236 221	246 231	257 243	269 255	282 269	296 283	311 299	327 316	344 335	363 356	385 378	407 399	428 420	449 441	490 480	528 517	564 552	598 584	629 614	658 642	730 698
43.25	175	177	181	188	196	206	231	229	242	256	203	288	306	328	350	370	399	420	432	470	506	539	570	599	625	667
42.75		161	166	173	182	192	203	216	230	245	261	279	300	322	343	364	384	404	423	460	494	526	556	583	608	636
42.50	143	146	151	159	168	179	191	204	218	234	252	273	294	315	336	356	376	395	414	449	483	513	542	567	590	605
42.25	128	131	137	145	155	166	179	193	208	225	246	267	288	309	329	349	368	387	404	439	471	500	527	551	572	575
42.00 41.75	113 99	117 104	124 111	132 120	143 131	155 144	168 158	183 174	199 193	219 215	241 236	262 256	282 276	303 296	322 315	341 333	359 351	378 368	395 385	428 417	458 446	486 472	511 495	534 516	545 516	545 516
41.50		91	99	109	121	134	150	168	189	210	231	251	270	289	307	325	342	359	375	405	433	457	479	488	488	488
41.25	73	79	88	98	111	126	143	164	185	205	225	245	264	282	300	317	333	349	365	393	419	442	460	460	460	460
41.00	61	68	77	89	103	119	139	160	181	201	220	239	257	275	292	308	324	340	354	381	405	427	433	433	433	433
40.75 40.50	50 39	58 48	68 59	80 73	96 91	115 112	136 133	157 153	177 172	196 191	215 209	233 227	251 244	268 260	284 276	300 291	315 305	329 319	343 332	369 355	391 376	406 380	406 380	406 380	406 380	406 380
40.30	30	39	52	68	89	110	130	149	168	186	203	220	237	252	267	281	295	308	320	342	355	355	355	355	355	355
40.00	21	32	47	66	87	107	126	145	163	181	198	214	229	244	258	272	284	297	308	328	330	330	330	330	330	330
39.75	14	26	44	65	85	104	123	141	159	175	192	207	222	236	249	262	274	285	295	306	306	306	306	306	306	306
39.50 39.25	7 2	22 21	43 42	63 61	83 80	101 98	120	137 133	154	170 164	185 179	200 193	214 206	227 218	240 230	252 241	262	273	282 260	283 260	283 260	283 260	283 260	283 260	283 260	283 260
39.25	0	21	42	60	78	96 95	116 112	128	149 144	158	179	185	197	209	220	230	251 238	260 238	238	238	238	238	238	238	238	238
38.75	0	20	39	58	75	92	108	124	138	152	165	177	189	199	209	217	217	217	217	217	217	217	217	217	217	217
38.50	0	20	38	56	73	89	104	119	133	146	158	169	179	189	197	197	197	197	197	197	197	197	197	197	197	197
38.25	0	19 18	37	54	70	86	100 96	114	127	139	150	160	170	177	177	177	177	177	177	177	177	177	177	177	177	177
38.00 37.75	0	18 18	36 34	52 50	67 65	82 78	96 91	109 103	121 114	132 124	142 133	151 140	158 140	158 140	158 140	158 140	158 140	158 140	158 140	158 140	158 140	158 140	158 140	158 140	158 140	158 140
37.75	0	17	33	48	62	75	87	97	107	116	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123
37.25	0	16	31	45	58	70	81	91	100	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
37.00	0	15	30	43	55	66	76	85	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
36.75 36.50	0	15 14	28 26	40 38	52 48	61 56	70 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63	77 63
36.25	0	13	25 25	35	44	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
36.00	0	12	23	32	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
35.75	0	11	20	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
35.50 35.25	0	10	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11	19 11
35.25	0	5	11 5	11 5	11 5	11 5	11 5	11 5	5	11 5	11 5	11 5	11 5	11 5	11 5	5	11 5	11 5	11 5	11 5	5	11 5	5	11 5	11 5	11 5
34.75		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		. ,		ī .			.																1			
	Gate Orific	L =	11.8	metres	Crest =		metres					50	Denotes O	ver Topping a	nd Orifice	Flow Conditi	ion	50	Denotes O	rifice Flow C	ondition	50	Denotes Fr	ee Flow Con	dition	
	Gate Office	e coeii =	0.675	l		1.7	for over top	ping of gate	S																	



RD0032 Ross River Dam Emergency Action Plan

Authorised by: Principal Dam Safety & Operations N02632 Effective Date: 30/09/2024

Table C7: Discharge for singles Outer Gate (1 or 3) only (m3/s) - 2016

													Gate Op	ening (m)												
	0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00													
												Eleva	ation on centre	of gate openi	ng (m)											
	34.252	34.46	34.65	34.82	34.99	35.15	35.30	35.45	35.59	35.73	35.87	36.00	36.13 Sevation at T	36.26 op of Gate (ı	36.39 n)	36.52	36.65	36.77	36.90	37.15	37.40	37.65	37.90	38.15	38.40	40.389
	39.03	39.44	39.82	40.18	40.52	40.85	41.16	41.47	41.76	42.05	42.33	42.61	42.88	43.15	43.41	43.67	43.93	44.17	44.42	44.90	45.37	45.82	46.27	46.71	47.13	50.11
Lake Level	500	505	504	505	500	540	547	554	504	500	570	507	507	007	040	000	040	050	005	004	747	745	77.4	004	000	
48.00 47.75	539 517	535 513	534 512	535 513	538 516	542 520	547 526	554 533	561 540	569 548	578 557	587 566	597 576	607 587	618 597	629 609	640 620	653 633	665 645	691 671	717 698	745 726	774 756	804 786	836 819	1248 1213
47.73	494	491	490	492	495	499	505	512	519	527	536	546	556	566	577	589	600	613	625	652	679	708	738	769	802	1178
47.25	473	469	469	470	474	479	484	491	499	507	516	526	536	547	558	569	581	594	606	633	661	690	721	753	788	1144
47.00	451	448	448	450	453	458	464	471	479	487	497	506	517	527	539	550	562	575	588	615	643	673	704	738	776	1110
46.75	430	427	427	429	433	438	444	451	459	468	477	487	497	508	520	532	543	557	570	597	626	656	689	724	764	1076
46.50 46.25	410 389	407 387	407 387	409 390	413 394	418 399	425 405	432 413	440 421	449 430	458 440	468 450	479 461	490 472	501 484	514 496	526 508	539 522	552 535	580 564	609 594	641 626	675 663	713 703	753 741	1042 1009
46.00	369	367	368	370	374	380	387	394	403	412	422	432	443	454	466	479	491	505	519	548	579	613	653	692	729	976
45.75	349	348	348	351	356	361	368	376	385	394	404	415	426	437	449	462	475	489	503	533	565	602	642	681	717	943
45.50	330	329	330	333	337	343	350	358	367	377	387	398	409	421	433	446	459	474	488	519	553	593	632	669	705	910
45.25	311	310	311	315	319	326	333	341	350	360	370	381	393	405	418	431	444	459	474	506	544	583	622	658	692	878
45.00 44.75	293 274	292 274	293 276	297 279	302 285	308 291	316 299	324 308	333 317	343 327	354 338	365 350	377 362	389 375	402 388	416 402	430 416	445 432	461 449	495 486	535 526	574 564	611 600	646 634	680 667	846 815
44.73	257	256	258	262	268	275	283	292	301	312	323	335	347	361	374	389	404	421	438	478	517	554	589	622	653	784
44.25	239	239	242	246	252	259	267	276	286	297	309	321	334	347	362	377	393	410	430	470	508	544	578	610	640	753
44.00	222	223	225	230	236	244	252	261	272	283	295	307	321	335	350	366	383	403	423	462	498	533	566	597	626	722
43.75		206	210	214	221	229	237	247	258	269	281	294	308	323	339	356	376	396	415	453	489	523	554	584	612	692
43.50 43.25	190 174	191 175	194 179	199 185	206 192	214 200	223 210	233 220	244 232	256 244	269 257	283 271	297 287	313 304	330 323	350 343	369 362	389 382	408 400	444 436	479 469	512 501	542 530	571 558	597 582	663 634
43.23	159	161	165	171	178	187	197	208	220	233	247	262	278	298	317	337	356	374	392	427	459	489	518	544	567	605
42.75	144	146	151	157	165	174	185	196	208	222	237	253	272	292	311	330	348	367	384	417	449	478	505	529	552	577
42.50	130	132	137	144	153	162	173	185	198	213	229	247	267	286	305	324	341	359	376	408	438	466	492	515	536	549
42.25	116	119	125	132	141	151	162	175	189	204	223	243	262	281	299	317	334	351	367	398	427	454	478	500	519	522
42.00 41.75	103 90	106 94	112 101	120 109	130 119	140 131	152 143	166 158	181 175	199 195	218 214	238 233	256 251	275 269	292 286	310 303	326 319	343 334	358 349	388 378	416 405	441 428	464 450	484 468	495 469	495 469
41.75	78	83	90	99	109	122	136	152	173	195	209	233	245	262	279	295	311	326	349	368	393	415	435	443	443	443
41.25	66	72	80	89	101	114	130	149	168	187	205	222	239	256	272	288	303	317	331	357	381	401	418	418	418	418
41.00	55	62	70	81	93	108	126	146	164	182	200	217	234	250	265	280	294	308	321	346	368	387	393	393	393	393
40.75	45	52	62	73	87	104	124	142	160	178	195	211	227	243	258	272	286	299	311	335	355	369	369	369	369	369
40.50 40.25	36 27	44 36	54 47	67 62	83 81	102 100	121 118	139 135	156 152	173 169	190 185	206 200	221 215	236 229	250 242	264 256	277 268	289 280	301 290	323 310	341 322	345 322	345 322	345 322	345 322	345 322
40.25	19	29	42	60	79	97	115	132	148	164	179	194	208	229	234	247	258	269	279	298	300	300	300	300	300	300
39.75	12	24	40	59	77	95	112	128	144	159	174	188	201	214	226	238	248	259	268	278	278	278	278	278	278	278
39.50	6	20	39	57	75	92	108	124	140	154	168	182	194	206	218	228	238	248	256	257	257	257	257	257	257	257
39.25	2	19	38	56	73	89	105	120	135	149	162	175	187	198	209	219	227	236	236	236	236	236	236	236	236	236
39.00	0	19	37	54	71	87	102	116	130	144	156	168	179	190	199	208	216	216	216	216	216	216	216	216	216	216
38.75 38.50	0	18 18	36 35	52 51	68 66	84 81	98 95	112 108	125 120	138 132	150 143	161 153	171 163	181 171	190 179	197 179	197 179	197 179	197 179	197 179	197 179	197 179	197 179	197 179	197 179	197 179
38.25	0	17	33	49	64	78	91	103	115	126	136	146	154	161	161	161	161	161	161	161	161	161	161	161	161	161
38.00	0	17	32	47	61	74	87	99	110	120	129	137	144	144	144	144	144	144	144	144	144	144	144	144	144	144
37.75	0	16	31	45	59	71	83	94	104	113	121	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
37.50 37.25	0	15 15	30 28	43 41	56 53	68 64	79 74	88 83	98 91	106 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97	112 97
37.25	0	14	26 27	39	50	60	69	77	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
36.75	0	13	26	37	47	56	64	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
36.50	0	13	24	34	43	51	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
36.25	0	12	22	32	40	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
36.00 35.75	0	11 10	21 19	29	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
35.75	0	9	17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17	26 17
35.25	0	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
35.00	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
34.75	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
																	-								-	
				L=	11.5	metres	Crest =	34.656	metres				50	Denotes Ov	er Topping	and Orifice	Flow Condi	tion	50	Denotes O	ifice Flow (Condition	50	Denotes Fr	ee Flow Con	dition
			Gate Orific		0.675				for over top	ping of gate	es		30		z. ropping								- 50			
		-				_	-					-						-	-			-	-		-	



RD0032 Ross River Dam Emergency Action Plan

Authorised by: Principal Dam Safety & Operations N02632 Effective Date: 30/09/2024

Table C8: Discharge for all Gates (m3/s) - 2016

													Gate Op	ening (m)												
	0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	tion on contro	e of gate onen	ing(m)											
	34.252	34.46	34.65	34.82	34.99	35.15	35.30	35.45	35.59	35.73	35.87	36.00	36.13	36.26	36.39	36.52	36.65	36.77	36.90	37.15	37.40	37.65	37.90	38.15	38.40	40.389
														op of Gate (
	39.03	39.44	39.82	40.18	40.52	40.85	41.16	41.47	41.76	42.05	42.33	42.61	42.88	43.15	43.41	43.67	43.93	44.17	44.42	44.90	45.37	45.82	46.27	46.71	47.13	50.11
ake Level 48.00	1672	1659	1656	1659	1668	1681	1698	1718	1740	1765	1792	1821	1851	1883	1917	1952	1986	2025	2062	2142	2225	2312	2402	2495	2593	3871
47.75	1602	1590	1587	1591	1600	1614	1632	1652	1675	1700	1727	1756	1787	1820	1853	1889	1923	1962	2002	2081	2165	2253	2344	2439	2539	3763
47.50	1534	1523	1520	1525	1534	1549	1566	1587	1610	1636	1664	1693	1724	1757	1791	1827	1861	1901	1940	2021	2106	2195	2288	2386	2489	3655
47.25	1466	1456	1454	1459	1469	1484	1502	1523	1547	1573	1601	1631	1663	1696	1730	1766	1801	1842	1881	1963	2050	2140	2235	2335	2443	3548
47.00	1400	1390	1389	1395	1406	1421	1439	1461	1485	1511	1540	1570	1602	1636	1671	1707	1743	1783	1823	1907	1994	2087	2184	2288	2406	3442
46.75	1335	1326	1325	1331	1343	1359	1378	1400	1424	1451	1480	1511	1543	1577	1612	1649	1686	1727	1767	1852	1941	2036	2136	2246	2371	3337
46.50 46.25	1270 1207	1262 1200	1263 1201	1269 1208	1281 1221	1297 1237	1317 1258	1339 1281	1364 1306	1392 1334	1421 1364	1452 1395	1485 1429	1520 1464	1555 1500	1593 1538	1630 1576	1672 1618	1712 1660	1799 1748	1890 1842	1987 1942	2092 2055	2213 2180	2335 2299	3233 3129
46.00	1145	1138	1140	1148	1161	1179	1199	1223	1249	1277	1308	1340	1374	1409	1446	1485	1524	1567	1609	1700	1796	1901	2024	2146	2262	3026
45.75	1084	1078	1081	1089	1103	1121	1142	1166	1193	1222	1253	1286	1320	1357	1394	1434	1473	1517	1560	1653	1754	1868	1992	2111	2224	2924
45.50	1024	1019	1023	1032	1046	1065	1087	1111	1138	1168	1200	1233	1268	1305	1344	1384	1424	1469	1514	1610	1716	1839	1960	2076	2186	2823
45.25	965	961	965	976	991	1010	1032	1058	1085	1116	1148	1182	1218	1256	1295	1336	1378	1424	1470	1570	1686	1810	1928	2041	2147	2724
45.00	908	905 849	910	920	936	956	979	1005	1034	1065	1098	1133	1169 1123	1208	1248	1291	1334	1381 1341	1429	1535	1659 1631	1780	1895	2004 1967	2108	2625 2527
44.75 44.50	851 796	795	855 802	867 814	883 831	904 853	928 878	954 905	984 935	1015 968	1049 1002	1085 1039	1123	1162 1118	1204 1161	1247 1207	1292 1253	1341	1391 1359	1508 1483	1603	1749 1718	1861 1827	1967	2068 2026	2430
44.25	742	742	750	763	781	803	829	857	888	922	957	995	1035	1077	1121	1169	1218	1273	1335	1458	1575	1686	1792	1891	1984	2335
44.00	689	690	699	713	732	755	782	811	843	877	914	953	994	1038	1084	1134	1188	1250	1312	1432	1546	1654	1756	1852	1941	2241
43.75	638	640	650	665	685	709	736	767	799	835	873	913	956	1002	1051	1105	1166	1228	1288	1405	1516	1621	1720	1812	1898	2148
43.50	588	591	602	618	639	664	693	724	758	795	834	876	921	970	1023	1084	1145	1206	1265	1378	1486	1588	1683	1771	1853	2056
43.25	539 492	544 498	556 511	573	595 553	621 580	651	683	719 681	757 721	798	842 811	890 863	942 923	1003	1065 1045	1124	1184 1160	1241 1216	1351 1323	1455 1424	1553	1645 1606	1729 1686	1807	1966 1877
43.00 42.75	492	453	468	529 488	512	541	611 573	645 608	647	689	765 735	785	845	923	984 966	1045	1103 1081	1137	1191	1294	1392	1518 1482	1566	1642	1759 1711	1789
42.50	402	411	426	447	473	503	537	574	615	659	709	767	828	888	946	1003	1058	1113	1165	1265	1359	1445	1525	1597	1661	1703
42.25	360	369	387	409	436	468	503	543	586	634	691	752	812	870	927	982	1036	1088	1139	1235	1325	1408	1483	1550	1610	1618
42.00	318	330	349	373	402	435	473	515	561	617	678	737	795	852	907	961	1012	1063	1112	1204	1290	1369	1440	1502	1535	1535
41.75	279	292	313	339	369	405	445	490	543	604	664	722	778	833	886	938	988	1037	1084	1173	1255	1329	1395	1453	1454	1454
41.50 41.25	242 206	257 223	279 247	307 277	340 313	378 354	421 402	472 461	532 521	592 579	649 635	706 690	761 743	814 794	865 844	916 892	964 938	1011 984	1056 1027	1141 1107	1218 1180	1288 1245	1349 1296	1374 1296	1374 1296	1374 1296
41.00	172	191	247	250	289	335	392	451	509	565	620	673	743 724	794 774	822	869	936	964 956	997	1073	1141	1245	1219	1296	1219	1296
40.75	140	162	191	227	269	324	383	441	497	552	605	656	705	753	799	844	886	927	966	1038	1101	1144	1144	1144	1144	1144
40.50	111	135	167	207	257	316	374	431	485	538	589	638	686	732	776	819	858	898	934	1001	1059	1071	1071	1071	1071	1071
40.25	84	111	147	192	251	309	365	420	473	524	573	620	666	710	752	792	830	867	901	963	1000	1000	1000	1000	1000	1000
40.00	59	90	131	187	245	301	356	409	460	509	556	602	646	687	727	765	801	835	866	923	930 863	930	930 863	930 863	930	930
39.75 39.50	38 20	74 62	124 121	182 177	239 232	293 285	346 336	397 386	446 433	494 478	539 522	583 563	624 602	664 640	702 675	737 708	770 738	802 768	831 793	863 797	797	863 797	797	797	863 797	863 797
39.25	6	60	117	173	226	277	326	374	419	462	503	543	580	615	647	678	705	732	733	733	733	733	733	733	733	733
39.00	0	58	114	168	219	268	316	361	404	445	484	521	556	588	618	646	671	671	671	671	671	671	671	671	671	671
38.75	0	57	111	163	212	260	305	348	389	428	465	499	531	561	588	612	612	612	612	612	612	612	612	612	612	612
38.50	0	55	107	157	205	250	294	335	373	410	444	476	505	532	554	554	554	554	554	554	554	554	554	554	554	554
38.25 38.00	0	53 51	104 100	152 146	198 190	241 231	282 270	321 306	357 340	391 371	422 400	451 426	478 446	499 446	499 446	499 446	499 446	499 446	499 446	499 446	499 446	499 446	499 446	499 446	499 446	499 446
37.75	0	50	96	140	182	221	257	291	322	350	376	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395
37.50	0	48	92	134	173	210	244	274	303	328	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346
37.25	0	46	88	128	164	198	229	257	282	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
37.00	0	44	84	121	155	186	214	239	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257
36.75	0	41	79 74	114	145	173	198	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
36.50 36.25	0	39 37	74 69	106 98	134 123	159 142	177 142	177 142	177 142	177 142	177 142	177 142	177 142	177 142	177 142	177 142	177 142	177 142	177 142	177 142						
36.00	0	34	64	89	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
35.75	0	31	57	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
35.50	0	28	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
35.25	0	24	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
35.00 34.75	0	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
34.75	U																									
				L=		metres	Crest =		metres																	
								1.7		ping of gate	es															
					1.7 for over topping of gates																					

Note: Discharge rates do not include flow over the closed gate. If a gate is closed or inoperable, assuming the gate has not partially opened, the gate will be overtopped for EL greater than 39.05m. For all situations where a gate is inoperable when closed, refer to Section 10 for Emergency Actions.





Authorised by: Principal Dam Safety & Operations N02632 Effective Date: 30/09/2024

Table C9: Minimum Gate Settings - Water Level RISING 50mm increments

(m AHD) (r	Level (m above FSL)	Left	(m)		0-4-	THE PERSON NAMED IN COLUMN					or		100 0000	2 close	100 Television 100 Te		196000	e 3 closed						
(m AHD)	Annual Control of the	1.66			Gate	Opening	(m)	0	In	operable (m)	Q	ino	perable	(m)	Q	Inc	operable (i	m)	Q		(m	1 ³ /s)	
A Name of the last	FSL)	FAIR	Centre	Right	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	Total
38.55		. 1	2	3	1	2	3	(m /s)	1	2	3		1	2	3		1	2	3		1	2	3	(m ³ /s)
	0.00	0.00	0.00	0.00	closed	closed	closed	0	closed	closed	closed	0	closed	closed	closed	0	closed	closed	closed	0	0.0	0.0	0.0	0.0
38.60	0.05	0.00	0.00	0.00	closed	closed	closed	0	closed	closed	closed	0	closed	closed	closed	0	closed	closed	closed	0	0.0	0.0	0.0	0.0
38.65	0.10	0.00	0.25	0.00	closed	0.25	closed	20	closed	0.25	closed	20	closed	closed	closed	0	closed	0.25	closed	20	0.0	19.9	0.0	19.9
38.70	0.15	0.00	0.25	0.00	closed	0.25	closed	20	closed	0.25	closed	20	closed	closed	closed	0	closed	0.25	closed	20	0.0	20.0	0.0	20.0
38.75	0.20	0.25	0.25	0.25	0.25	0.25	0.25	57	closed	0.50	0.50	75	0.50	closed	0.50	71	0.50	0.50	closed	75	18.3	20.1	18.3	56.7
38.80	0.25	0.25	0.25	0.25	0.25	0.25	0.25	57	closed	0.50	0.50	76	0.50	closed	0.50	72	0.50	0.50	closed	76	18.4	20.2	18.4	57.0
38.85	0.30	0.25	0.25	0.25	0.25	0.25	0.25	57	closed	0.50	0.50	76	0.50	closed	0.50	72	0.50	0.50	closed	76	18.5	20.4	18.5	57.3
38.90	0.35	0.25	0.25	0.25	0.25	0.25	0.25	58	closed	0.50	0.50	76	0.50	closed	0.50	73	0.50	0.50	closed	76	18.6	20.5	18.6	57.6
38.95	0.40	0.25	0.25	0.25	0.25	0.25	0.25	58	closed	0.50	0.50	77	0.50	closed	0.50	73	0.50	0.50	closed	77	18.7	20.6	18.7	58.0
39.00	0.45	0.50	0.50	0.50	0.50	0.50	0.50	114	closed	0.75	0.75	114	1.00	closed	1.00	141	0.75	0.75	closed	114	36.8	40.5	36.8	114.1
39.05	0.50	0.50	0.50	0.50	0.50	0.50	0.50	115	closed	0.75	0.75	114	1.00	closed	1.00	142	0.75	0.75	closed	114	37.0	40.8	37.0	114.8
39.10	0.55	0.50	0.50	0.50	0.50	0.50	0.50	115	closed	0.75	0.75	115	1.00	closed	1.00	143	0.75	0.75	closed	115	37.2	41.0	37.2	115.4
39.15	0.60	0.50	0.50	0.50	0.50	0.50	0.50	116	closed	0.75	0.75	116	1.00	closed	1.00	144	0.75	0.75	closed	116	37.4	41.2	37.4	116.1
39.20	0.65	0.50	0.50	0.50	0.50	0.50	0.50	117	closed	0.75	0.75	116	1.00	closed	1.00	145	0.75	0.75	closed	116	37.6	41.5	37.6	116.7
39.25	0.70	0.75	0.75	0.75	0.75	0.75	0.75	173	closed	1.25	1.25	188	1.25	closed	1.25	179	1.25	1.25	closed	188	55.7	61.3	55.7	172.7
39.30	0.75	0.75	0.75	0.75	0.75	0.75	0.75	174	closed	1.25	1.25	189	1.25	closed	1.25	180	1.25	1.25	closed	189	56.0	61.7	56.0	173.6
39.35	0.80	0.75	0.75	0.75	0.75	0.75	0.75	175	closed	1.25	1.25	190	1.25	closed	1.25	181	1.25	1.25	closed	190	56.3	62.0	56.3	174.6
39.40	0.85	0.75	0.75	0.75	0.75	0.75	0.75	176	closed	1.25	1.25	191	1.25	closed	1.25	182	1.25	1.25	closed	191	56.6	62.4	56.6	175.6
39.45	0.90	0.75	0.75	0.75	0.75	0.75	0.75	177	closed	1.25	1.25	192	1.25	closed	1.25	183	1.25	1.25	closed	192	56.9	62.7	56.9	176.5
39.50	0.95	1.00	1.00	1.00	1.00	1.00	1.00	232	closed	1.50	1.50	228	1.75	closed	1.75	249	1.50	1.50	closed	228	74.9	82.5	74.9	232.4
39.55	1.00	1.00	1.00	1.00	1.00	1.00	1.00	234	closed	1.50	1.50	229	1.75	closed	1.75	250	1.50	1.50	closed	229	75.3	83.0	75.3	233.7
39.60	1.05	1.00	1.00	1.00	1.00	1.00	1.00	235	closed	1.50	1.50	231	1.75	closed	1.75	252	1.50	1.50	closed	231	75.7	83.4	75.7	234.9 236.2
39.65	1.10	1.00	1.00	1.00	1.00	1.00	1.00	236	closed	1.50	1.50	232	1.75	closed	1.75	253	1.50	1.50	closed	232	76.2 76.6	83.9 84.3	76.2 76.6	230.2
39.70 39.75	1.15	1.00	1.00	1.00	1.00	1.00	1.00	237 293	closed	1.50 2.00	1.50	233 303	1.75	closed	1.75	255 288	1.50 2.00	1.50 2.00	closed	233 303	94.6	104.2	94.6	293.4
39.75	1.25	1.25	1.25	1.25	1.25	1.25	1.25	293	closed	2.00	2.00	303	2.00	closed	2.00	290	2.00	2.00	closed	303	95.1	104.2	95.1	295.0
39.85	1.30	1.25	1.25	1.25	1.25	1.25	1.25	295	closed	2.00	2.00	306	2.00	closed	2.00	290	2.00	2.00	closed	306	95.1	104.6	95.6	295.0
39.90	1.35	1.25	1.25	1.25	1.25	1.25	1.25	298	closed	2.00	2.00	308	2.00	closed	2.00	293	2.00	2.00	closed	308	96.1	105.4	96.1	298.2
39.95	1.40	1.25	1.25	1.25	1.25	1.25	1.25	300	closed	2.00	2.00	310	2.00	closed	2.00	293	2.00	2.00	closed	310	96.6	105.9	96.6	298.2
40.00	1.45	1.50	1.50	1.50	1.50	1.50	1.50	356	closed	2.00	2.00	345	2.50	closed	2.50	359	2.25	2.25	closed	345	114.7	126.4	114.7	355.9
40.05	1.50	1.50	1.50	1.50	1.50	1.50	1.50	358	closed	2.25	2.25	347	2.50	closed	2.50	361	2.25	2.25	closed	347	115.4	127.1	115.4	357.8
40.10	1.55	1.50	1.50	1.50	1.50	1.50	1.50	360	closed	2.25	2.25	349	2.50	closed	2.50	363	2.25	2.25	closed	349	116.0	127.8	116.0	359.7
40.15	1.60	1.50	1.50	1.50	1.50	1.50	1.50	362	closed	2.25	2.25	351	2.50	closed	2.50	365	2.25	2.25	closed	351	116.6	128.4	116.6	361.5
40.20	1.65	1.50	1.50	1.50	1.50	1.50	1.50	363	closed	2.25	2.25	353	2.50	closed	2.50	367	2.25	2.25	closed	353	117.2	129.1	117.2	363.4
40.25	1.70	1.50	1.75	1.50	1.50	1.75	1.50	385	closed	2.50	2.25	372	2.50	closed	2.50	369	2.25	2.50	closed	372	117.8	149.1	117.8	384.6
40.30	1.75	1.50	1.75	1.50	1.50	1.75	1.50	387	closed	2.50	2.25	374	2.50	closed	2.50	371	2.25	2.50	closed	374	118.4	149.9	118.4	386.6
40.35	1.80	1.50	1.75	1.50	1.50	1.75	1.50	389	closed	2.50	2.25	376	2.50	closed	2.50	374	2.25	2.50	closed	376	118.9	150.6	118.9	388.5
40.40	1.85	1.50	1.75	1.50	1.50	1.75	1.50	390	closed	2.50	2.25	379	2.50	closed	2.50	376	2.25	2.50	closed	379	119.5	151.4	119.5	390.5
40.45	1.90	1.50	1.75	1.50	1.50	1.75	1.50	392	closed	2.50	2.25	381	2.50	closed	2.50	378	2.25	2.50	closed	381	120.1	152.2	120.1	392.4
40.50	1.95	1.75	1.75	1.75	1.75	1.75	1.75	431	closed	2.75	2.75	433	2.75	closed	2.75	412	2.75	2.75	closed	433	138.8	152.9	138.8	430.5

Table C9 (continued): Minimum Gate Settings-Water Level RISING 50mm increments





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Headwater	Headwater	Gate	Open	ing G _o	A	Gates C	peration	nal	Ga	te 1 close	d or		Gat	e 2 close	d or	he i	Gar	te 3 closed	or			2016 D	ischarge	
Level	Level		(m)		Gate	Opening	g (m)	0	In	operable (m)	Q	inc	perable	(m)	Q	In	operable (i	m)	Q		(m	1 ³ /s)	
(m. AUD)	(m above	Left	Centre	Right	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	Total
(m AHD)	FSL)	1	2	3	1.	2	3	(m /s)	1	2	3		1	2	3		1	2	3		1	2	3	(m ³ /s)
40.55	2.00	1.75	1.75	1.75	1.75	1.75	1.75	433	closed	2.75	2.75	435	2.75	closed	2.75	414	2.75	2.75	closed	435	139.5	153.7	139.5	432.6
40.60	2.05	1.75	1.75	1.75	1.75	1.75	1.75	435	closed	2.75	2.75	437	2.75	closed	2.75	416	2.75	2.75	closed	437	140.2	154.4	140.2	434.8
40.65	2.10	1.75	1.75	1.75	1.75	1.75	1.75	437	closed	2.75	2.75	440	2.75	closed	2.75	418	2.75	2.75	closed	440	140.8	155.2	140.8	436.9
40.70	2.15	1.75	1.75	1.75	1.75	1.75	1.75	439	closed	2.75	2.75	442	2.75	closed	2.75	421	2.75	2.75	closed	442	141.5	155.9	141.5	439.0
40.75	2.20	2.00	2.00	2.00	2.00	2.00	2.00	497	closed	3.00	3.00	478	3.25	closed	3.25	486	3.25	3.00	closed	493	160.3	176.6	160.3	497.2
40.80	2.25	2.00	2.00	2.00	2.00	2.00	2.00	500	closed	3.00	3.00	481	3.25	closed	3.25	488	3.25	3.00	closed	496	161.1	177.5	161.1	499.6
40.85	2.30	2.00	2.00	2.00	2.00	2.00	2.00	502	closed	3.00	3.00	483	3.25	closed	3.25	491	3.25	3.00	closed	499	161.8	178.3	161.8	502.0
40.90	2.35	2.00	2.00	2.00	2.00	2.00	2.00	504	closed	3.00	3.00	486	3.25	closed	3.25	494	3.25	3.00	closed	501	162.6	179.1	162.6	504.4
40.95	2.40	2.00	2.00	2.00	2.00	2.00	2.00	507	closed	3.00	3.00	488	3.25	closed	3.25	496	3.25	3.00	closed	504	163.4	180.0	163.4	506.7
41.00	2.45	2.25	2.25	2.25	2.25	2.25	2.25	565	closed	3.50	3.50	557	3.50	closed	3.50	530	3.50	3.50	closed	557	182.3	200.8	182.3	565.3
41.05	2.50	2.25	2.25	2.25	2.25	2.25	2.25	568	closed	3.50	3.50	560	3.50	closed	3.50	533	3.50	3.50	closed	560	183.1	201.7	183.1	568.0
41.10	2.55	2.25	2.25	2.25	2.25	2.25	2.25	571	closed	3.50	3.50	563	3.50	closed	3.50	536	3.50	3.50	closed	563	184.0	202.7	184.0	570.6
41.15	2.60	2.25	2.25	2.25	2.25	2.25	2.25	573	closed	3.50	3.50	566	3.50	closed	3.50	539	3.50	3.50	closed	566	184.8	203.6	184.8	573.3
41.20	2.65	2.25	2.25	2.25	2.25	2.25	2.25	576	closed	3.50	3.50	569	3.50	closed	3.50	541	3.50	3.50	closed	569	185.7	204.6	185.7	575.9
41.25	2.70	2.50	2.50	2.50	2.50	2.50	2.50	635	closed	3.75	3.75	605	11.50	closed	11.50	835	3.75	3.75	closed	605	204.7	225.5	204.7	634.8
41.30	2.75	2.50	2.50	2.50	2.50	2.50	2.50	638	closed	3.75	3.75	608	11.50	closed	11.50	845	3.75	3.75	closed	608	205.6	226.5	205.6	637.8
41.35	2.80	2.50	2.50	2.50	2.50	2.50	2.50	641	closed	3.75	3.75	611	11.50	closed	11.50	855	3.75	3.75	closed	611	206.6	227.6	206.6	640.7
41.40	2.85	2.50	2.50	2.50	2.50	2.50	2.50	644	closed	3.75	3.75	614	11.50	closed	11.50	866	3.75	3.75	closed	614	207.5	228.6	207.5	643.6
41.45	2.90	2.50	2.50	2.50	2.50	2.50	2.50	647	closed	3.75	3.75	617	11.50	closed	11.50	876	3.75	3.75	closed	617	208.4	229.6	208.4	646.5
41.50	2.95	2.75	2.75	2.75	2.75	2.75	2.75	706	closed	11.50	11.50	931	11.50	closed	11.50	886	11.50	11.50	closed	931	227.5	250.7	227.5	705.7
41.55	3.00	2.75	2.75	2.75	2.75	2.75	2.75	709	closed	11.50	11.50	942	11.50	closed	11.50	896	11.50	11.50	closed	942	228.6	251.8	228.6	708.9
41.60	3.05	2.75	2.75	2.75	2.75	2.75	2.75	712	closed	11.50	11.50	952	11.50	closed	11.50	906	11.50	11.50	closed	952	229.6	252.9	229.6	712.1
41.65	3.10	2.75	2.75	2.75	2.75	2.75	2.75	715	closed	11.50	11.50	963	11.50	closed	11.50	917	11.50	11.50	closed	963	230.6	254.1	230.6	715.3
41.70	3.15	2.75	2.75	2.75	2.75	2.75	2.75	718	closed	11.50	11.50	974	11.50	closed	11.50	927	11.50	11.50	closed	974	231.6	255.2	231.6	718.5
41.75	3.20	2.75	3.00	2.75	2.75	3.00	2.75	742	closed	11.50	11.50	985	11.50	closed	11.50	937	11.50	11.50	closed	985	232.6	276.4	232.6	741.7
41.80	3.25	2.75	3.00	2.75	2.75	3.00	2.75	745	closed	11.50	11.50	996	11.50	closed	11.50	948	11.50	11.50	closed	996	233.7	277.6	233.7	744.9
41.85	3.30	2.75	3.00	2.75	2.75	3.00	2.75	748	closed	11.50	11.50	1007	11.50	closed	11.50	958	11.50	11.50	closed	1007	234.7	278.8	234.7	748.1
41.90	3.35	2.75	3.00	2.75	2.75	3.00	2.75	751	closed	11.50	11.50	1018	11.50	closed	11.50	969	11.50	11.50	closed	1018	235.7	280.0	235.7	751.4
41.95	3.40	2.75	3.00	2.75	2.75	3.00	2.75	755	closed	11.50	11.50	1029	11.50	closed	11.50	979	11.50	11.50	closed	1029	236.7	281.2	236.7	754.6
42.00	3.45	3.00	3.00	3.00	3.00	3.00	3.00	795	closed	11.50	11.50	1040	11.50	closed	11.50	990	11.50	11.50	closed	1040	256.4	282.5	256.4	795.2
42.05	3,50	3.00	3.00	3.00	3.00	3.00	3.00	799	closed	11.50	11.50	1052	11.50	closed	11.50	1001	11.50	11.50	closed	1052	257.5	283.7	257.5	798.6
42.10	3,55	3.00	3.00	3.00	3.00	3.00	3.00	802	closed	11.50	11.50	1063	11.50	closed	11.50	1011	11.50	11.50	closed	1063	258.6	284.8	258.6	802.0
42.15	3,60	3.00	3.00	3.00	3.00	3.00	3.00	805	closed	11.50	11.50	1074	11.50	closed	11.50	1022	11.50	11.50	closed	1074	259.6	286.0	259.6	805.3
42.20	3,65	3.00	3.00	3.00	3.00	3.00	3.00	809	closed	11.50	11.50	1085	11.50	closed	11.50	1033	11.50	11.50	closed	1085	260.7	287.2	260.7	808.6
42.25	3.70	3.25	3.25	3.25	3.25	3.25	3.25	870	closed	11.50	11.50	1097	11.50	closed	11.50	1044	11.50	11.50	closed	1097	280.5	309.1	280.5	870.1
42.30	3.75	3.25	3.25	3.25	3.25	3.25	3.25	874	closed	11.50	11.50	1108	11.50	closed	11.50	1054	11.50	11.50	closed	1108	281.7	310.4	281.7	873.8
42.35	3.80	3.25	3.25	3.25	3.25	3.25	3.25	877	closed	11.50	11.50	1120	11.50	closed	11.50	1065	11.50	11.50	closed	1120	282.9	311.6	282.9	877.4
42.40	3.85	3.25	3.25	3.25	3.25	3.25	3.25	881	closed	11.50	11.50	1131	11.50	closed	11.50	1076	11.50	11.50	closed	1131	284.0	312.9	284.0	881.0
42.45	3.90	3.25	3.25	3.25	3.25	3.25	3.25	885	closed	11.50	11.50	1142	11.50	closed	11.50	1087	11.50	11.50	closed	1142	285.2	314.2	285.2	884.6
42.50	3.95	3.75	3.75	3.75	3.75	3.75	3.75	1003	closed	11.50	11.50	1154	11.50	closed	11.50	1098	11.50	11.50	closed	1154	323.5	356.4	323.5	1003.5





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Table C9 (continued): Minimum Gate Settings-Water Level RISING 50mm increments

Level Level MAHD	Discharge
Marcon M	m ³ /s)
42.55 4.00 3.75 3.75 3.75 3.75 3.75 3.75 3.75 1012 closed 11.50 11.50 11.50 closed 11.50 11.50 11.50 11.50 11.50 11.50 closed 11.60 11.50 closed 11.50 11.50 11.50 11.50 11.50 closed 11.60 11.50 closed 11.50 11.50 11.50 11.50 closed 11.50 closed 11.50 11.50 closed 11.50 11.50 closed 11.50 closed 11.50 11.50 closed 11.50 c	Right Total
42.60 4.05 3.75 3.75 3.75 3.75 3.75 3.75 3.75 1.012 closed 11.50 11.50 11.50 closed 11.50 11.50 11.50 closed 11.77 326.2 359 42.65 4.10 3.75 3.75 3.75 3.75 3.75 3.75 1.016 closed 11.50 11.50 11.50 closed 12.01 32.8 360 42.75 4.20 3.75 11.50 3.75 3.75 3.75 11.50 3.75 12.96 closed 11.50 11.50 11.50 closed 11.50 11.50 11.50 11.50 closed 12.01 32.8 360 42.80 4.25 3.76 11.50 3.75 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 11.50 11.50 11.50 11.50 11.50 closed 11.50 11.50 11.50 closed 11.50 close	3 (m³/s)
42.65 4.10 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75	324.9 1007.6
42.70 4.15 3.75 3.75 3.75 3.75 3.75 3.75 11.50 3.75 11.50 3.75 12.96 closed 11.50 11.50 11.50 11.50 closed 11.50 1	326.2 1011.8
42.75	327.6 1016.0
42.80 4.25 3.76 11.50 3.75 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 3.75 11.50 3.75 3.75 11.50 3.75 3.75 11.50 3.75 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.	328.9 1020.1
42.85	330.2 1296.0
42.90 4.35 3.75 11.50 3.75 3.75 11.50 3.75 3.75 11.50 3.75 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 3.75 11.50 3.75 11.50 3.75 11.50 3.75 11.50 3.75 3.75 11.50 3.75 3.75 11.50 3.75 3.75 3.75 11.50 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75	331.5 1304.8
42.95	332.9 1313.6
43.00 4.45 11.50 1	334.2 1322.5
43.05 4.50 11.50 1	335.5 1331.3
43.10 4.55 11.50 1	605.1 1876.8
43.15 4.60 11.50 1	610.8 1894.5
43.20 4.65 11.50 1	616.5 1912.2
43.25 4.70 11.50 1	622.3 1930.0
43.30 4.75 11.50 1	628.0 1947.9
43.35 4.80 11.50 1	633.8 1965.8
43.40 4.85 11.50 1	639.6 1983.8
43.45 4.90 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 2038 closed 11.50 11.50 1381 11.50 closed 11.50 1314 11.50 11.50 11.50 closed 1381 657.0 723	645.4 2001.8
	651.2 2019.8
	657.0 2038.0
43.50 4.95 11.50 1	662.9 2056.1
43.55 5.00 11.50 1	668.8 2074.4
43.60 5.05 11.50 1	674.7 2092.7 680.6 2111.0
	686.5 2129.4
	692.5 2147.8
43.75 5.20 11.50 1	698.4 2166.3
43.85 5.30 11.50 1	704.4 2184.9
43.90 5.35 11.50 1	710.4 2203.4
43.95 5.40 11.50 1	716.4 2222.1
44.00 5.45 11.50 1	722.4 2240.8
44.05 5.50 11.50 1	728.5 2259.5
44.10 5.55 11.50 1	734.5 2278.3
44.15 5.60 11.50 1	740.6 2297.2
44.20 5.65 11.50 1	746.7 2316.1
44.25 5.70 11.50 1	752.8 2335.0
44.30 5.75 11.50 1	758.9 2354.0
44.35 5.80 11.50 1	765.1 2373.0
44.40 5.85 11.50 1	771.2 2392.1
44.45 5.90 11.50 1	777.4 2411.3
44.50 5.95 11.50 1	783.6 2430.4

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Table C9 (continued): Minimum Gate Settings-Water Level RISING 50mm increments

Headwater	Headwater	Gate	Openi	ng G _o	Al	Gates C	peration	ial	Ga	te 1 closed	or		Gat	e 2 close	d or		Gat	te 3 closed	or			2016 D	scharge	
Level	Level		(m)		Gate	Opening	g (m)	0	In	operable (m)	Q	inc	perable	(m)	Q	In	operable (m)	Q		(m	³ /s)	
(- aum)	(m above	Left	Centre	Right	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	Total
(m AHD)	FSL)	1	2	3	1	2	3	(m ⁻ /s)	1	2	3		1	2	3		1	2	3		1	2	3	(m ³ /s)
44.55	6.00	11.50	11.50	11.50	11.50	11.50	11.50	2450	closed	11.50	11.50	1660	11.50	closed	11.50	1580	11.50	11.50	closed	1660	789.8	870.1	789.8	2449.7
44.60	6.05	11.50	11.50	11.50	11.50	11.50	11.50	2469	closed	11.50	11.50	1673	11.50	closed	11.50	1592	11.50	11.50	closed	1673	796.0	876.9	796.0	2468.9
44.65	6.10	11.50	11.50	11.50	11.50	11.50	11.50	2488	closed	11.50	11.50	1686	11.50	closed	11.50	1604	11.50	11.50	closed	1686	802.2	883.8	802.2	2488.3
44.70	6.15	11.50	11.50	11.50	11.50	11.50	11.50	2508	closed	11.50	11.50	1699	11.50	closed	11.50	1617	11.50	11.50	closed	1699	808.5	890.7	808.5	2507.6
44.75	6.20	11.50	11.50	11.50	11.50	11.50	11.50	2527	closed	11.50	11.50	1712	11.50	closed	11.50	1629	11.50	11.50	closed	1712	814.7	897.6	814.7	2527.0
44.80	6.25	11.50	11.50	11.50	11.50	11.50	11.50	2546	closed	11.50	11.50	1725	11.50	closed	11.50	1642	11.50	11.50	closed	1725	821.0	904.5	821.0	2546.5
44.85	6,30	11.50	11.50	11.50	11.50	11.50	11.50	2566	closed	11.50	11.50	1739	11.50	closed	11.50	1655	11.50	11.50	closed	1739	827.3	911.4	827.3	2566.0
44.90	6,35	11.50	11.50	11.50	11.50	11.50	11.50	2586	closed	11.50	11.50	1752	11.50	closed	11.50	1667	11.50	11.50	closed	1752	833.6	918.4	833.6	2585.6
44.95	6.40	11.50	11.50	11.50	11.50	11.50	11.50	2605	closed	11.50	11.50	1765	11.50	closed	11.50	1680	11.50	11.50	closed	1765	839.9	925.3	839.9	2605.1
45.00	6.45	11.50	11.50	11.50	11.50	11.50	11.50	2625	closed	11.50	11.50	1779	11.50	closed	11.50	1692	11.50	11.50	closed	1779	846.2	932.3	846.2	2624.8
45.05 45.10	6.50 6.55	11.50	11.50 11.50	11.50	11.50 11.50	11.50 11.50	11.50	2644 2664	closed	11.50 11.50	11.50 11.50	1792	11.50 11.50	closed	11.50	1705	11.50 11.50	11.50 11.50	closed	1792 1805	852.6 858.9	939.3 946.3	852.6 858.9	2644.5 2664.2
45.10	6.60	11.50	11.50	11.50	11.50			2684	closed	11.50		1805		closed	11.50	1718		11.50	closed	1819	865.3	953.3	865.3	2683.9
45.15	6.65	11.50	11.50	11.50	11.50	11.50 11.50	11.50	2704	closed	11.50	11.50	1819 1832	11.50 11.50	closed	11.50	1731	11.50	11.50	closed	1832	871.7	960.3	871.7	2703.8
45.25	6.70	11.50		11.50	11.50	11.50	11.50	2724	closed	11.50	11.50	1846	11.50	closed	11.50	1756	11.50	11.50	closed	1846	878.1	967.4	878.1	2723.6
45.30	6.75	11.50	11.50	11.50	11.50	11.50	11.50	2743	closed	11.50	11.50	1859	11.50	closed	11.50	1769	11.50	11.50	closed	1859	884.5	974.5	884.5	2743.5
45.35	6.80	11.50	11.50	11.50	11.50	11.50	11.50	2763	closed	11.50	11.50	1872	11.50	closed	11.50	1782	11.50	11.50	closed	1872	890.9	981.5	890.9	2763.4
45.40	6.85	11.50	11.50	11.50	11.50	11.50	11.50	2783	closed	11.50	11.50	1886	11.50	closed	11.50	1795	11.50	11.50	closed	1886	897.4	988.6	897.4	2783.4
45.45	6.90	11.50	11.50	11.50	11.50	11.50	11.50	2803	closed	11.50	11.50	1900	11.50	closed	11.50	1808	11.50	11.50	closed	1900	903.8	995.8	903.8	2803.4
45.50	6.95	11.50	11.50	11.50	11.50	11.50	11.50	2823	closed	11.50	11.50	1913	11.50	closed	11.50	1821	11.50	11.50	closed	1913	910.3	1002.9	910.3	2823.5
45.55	7.00	11.50	11.50	11.50	11.50	11.50	11.50	2844	closed	11.50	11.50	1927	11.50	closed	11.50	1834	11.50	11.50	closed	1927	916.8	1010.0	916.8	2843.6
45.60	7.05	11.50	11.50	11.50	11.50	11.50	11.50	2864	closed	11.50	11.50	1940	11.50	closed	11.50	1847	11.50	11.50	closed	1940	923.3	1017.2	923.3	2863.7
45.65	7.10	11.50	11.50	11.50	11.50	11.50	11.50	2884	closed	11.50	11.50	1954	11.50	closed	11.50	1860	11.50	11.50	closed	1954	929.8	1024.3	929.8	2883.9
45.70	7.15	11.50	11.50	11.50	11.50	11.50	11.50	2904	closed	11.50	11.50	1968	11.50	closed	11.50	1873	11.50	11.50	closed	1968	936.3	1031.5	936.3	2904.1
45.75	7.20	11.50	11.50	11.50	11.50	11.50	11.50	2924	closed	11.50	11.50	1982	11.50	closed	11.50	1886	11.50	11.50	closed	1982	942.8	1038.7	942.8	2924.4
45.80	7.25	11.50	11.50	11.50	11.50	11.50	11.50	2945	closed	11.50	11.50	1995	11.50	closed	11.50	1899	11.50	11.50	closed	1995	949.4	1045.9	949.4	2944.7
45.85	7.30	11.50	11.50	11.50	11.50	11.50	11.50	2965	closed	11.50	11.50	2009	11.50	closed	11.50	1912	11.50	11.50	closed	2009	955.9	1053.1	955.9	2965.0
45.90	7.35	11.50	11.50	11.50	11.50	11.50	11.50	2985	closed	11.50	11.50	2023	11.50	closed	11.50	1925	11.50	11.50	closed	2023	962.5	1060.4	962.5	2985.4
45.95	7.40	11.50	11.50	11.50	11.50	11.50	11.50	3006	closed	11.50	11.50	2037	11.50	closed	11.50	1938	11.50	11.50	closed	2037	969.1	1067.6	969.1	3005.8
46.00	7.45	11.50	11.50	11.50	11.50	11.50	11.50	3026	closed	11.50	11.50	2051	11.50	closed	11.50	1951	11.50	11.50	closed	2051	975.7	1074.9	975.7	3026.2
46.05	7.50	11.50	11.50	11.50	11.50	11.50	11.50	3047	closed	11.50	11.50	2064	11.50	closed	11.50	1965	11.50	11.50	closed	2064	982.3	1082.2	982.3	3046.7
46.10	7.55	11.50	11.50	11.50	11.50	11.50	11.50	3067	closed	11.50	11.50	2078	11.50	closed	11.50	1978	11.50	11.50	closed	2078	988.9	1089.4	988.9	3067.2
46.15	7.60	11.50	11.50	11.50	11.50	11.50	11.50	3088	closed	11.50	11.50	2092	11.50	closed	11.50	1991	11.50	11.50	closed	2092	995.5	1096.7	995.5	3087.8
46.20	7.65	11.50	11.50	11.50	11.50	11.50	11.50	3108	closed	11.50	11.50	2106	11.50	closed	11.50	2004	11.50	11.50	closed	2106	1002.1	1104.1	1002.1	3108.4
46.25	7.70	11.50	11.50	11.50	11.50	11.50	11.50	3129	closed	11.50	11.50	2120	11.50	closed	11.50	2018	11.50	11.50	closed	2120	1008.8	1111.4	1008.8	3129.0
46.30	7.75	11.50	11.50	11.50	11.50	11.50	11.50	3150	closed	11.50	11.50	2134	11.50	closed	11.50	2031	11.50	11.50	closed	2134	1015.5	1118.7	1015.5	3149.6
46.35	7.80	11.50	11.50	11.50	11.50	11.50	11.50	3170	closed	11.50	11.50	2148	11.50	closed	11.50	2044	11.50	11.50	closed	2148	1022.1	1126.1	1022.1	3170.3
46.40	7.85	11.50	11.50	11.50	11.50	11.50	11.50	3191	closed	11.50	11.50	2162	11.50	closed	11.50	2058	11.50	11.50	closed	2162	1028.8	1133.4	1028.8	3191.1
46.45	7.90	11.50	The state of the s	11.50	11.50	11.50	11.50	3212	closed	11.50	11.50	2176	11.50	closed	11.50	2071	11.50	11.50	closed	2176	1035.5	1140.8	1035.5	3211.8
40.43	7.50	11.50	11.50	11.00	11.50	11.50	11.50	3212	ciosed	11.50	11.50	2110	11.50	closed	11.50	2011	11.50	11.50	ciosed	2110	1000.0	1140.0	1000.0	3211.0

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Table C9 (continued): Minimum Gate Settings-Water Level RISING 50mm increments

Headwater	Headwater	Gate	Openi	ng G。	А	II Gates C	peration	al	Ga	te 1 closed	or		Gat	2 close	d or	112	Gat	e 3 closed	or			2016 D	ischarge	
Level	Level		(m)		Gate	e Opening	g (m)	0	In	operable (m)	Q	ino	perable	(m)	Q	In	operable (i	m)	Q		(m	1 ³ /s)	
(m AHD)	(m above	Left	Centre	Right	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	(m³/s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	Total
(m Anb)	FSL)	1	2	3	1	2	3	(m /s)	1	2	3		1	2	3		-1	2	3		1	2	3	(m ³ /s)
46.50	7.95	11.50	11.50	11.50	11.50	11.50	11.50	3233	closed	11.50	11.50	2190	11.50	closed	11.50	2084	11.50	11.50	closed	2190	1042.2	1148.2	1042.2	3232.6
46.55	8.00	11.50	11.50	11.50	11.50	11.50	11.50	3253	closed	11.50	11.50	2205	11.50	closed	11.50	2098	11.50	11.50	closed	2205	1048.9	1155.6	1048.9	3253.5
46.60	8.05	11.50	11.50	11.50	11.50	11.50	11.50	3274	closed	11.50	11.50	2219	11.50	closed	11.50	2111	11.50	11.50	closed	2219	1055.7	1163.0	1055.7	3274.3
46.65	8.10	11.50	11.50	11.50	11.50	11.50	11.50	3295	closed	11.50	11.50	2233	11.50	closed	11.50	2125	11.50	11.50	closed	2233	1062.4	1170.4	1062.4	3295.2
46.70	8.15	11.50	11.50	11.50	11.50	11.50	11.50	3316	closed	11.50	11.50	2247	11.50	closed	11.50	2138	11.50	11.50	closed	2247	1069.1	1177.9	1069.1	3316.2
46.75	8.20	11.50	11.50	11.50	11.50	11.50	11.50	3337	closed	11.50	11.50	2261	11.50	closed	11.50	2152	11.50	11.50	closed	2261	1075.9	1185.3	1075.9	3337.1
46.80	8.25	11.50	11.50	11.50	11.50	11.50	11.50	3358	closed	11.50	11.50	2275	11.50	closed	11.50	2165	11.50	11.50	closed	2275	1082.7	1192.8	1082.7	3358.1
46.85	8.30	11.50	11.50	11.50	11.50	11.50	11.50	3379	closed	11.50	11.50	2290	11.50	closed	11.50	2179	11.50	11.50	closed	2290	1089.5	1200.2	1089.5	3379.2
46.90	8.35	11.50	11.50	11.50	11.50	11.50	11.50	3400	closed	11.50	11.50	2304	11.50	closed	11.50	2192	11.50	11.50	closed	2304	1096.2	1207.7	1096.2	3400.2
46.95	8.40	11.50	11.50	11.50	11.50	11.50	11.50	3421	closed	11.50	11.50	2318	11.50	closed	11.50	2206	11.50	11.50	closed	2318	1103.0	1215.2	1103.0	3421.3
47.00	8.45	11.50	11.50	11.50	11.50	11.50	11.50	3442	closed	11.50	11.50	2333	11.50	closed	11.50	2220	11.50	11.50	closed	2333	1109.9	1222.7	1109.9	3442.4
47.05	8.50	11.50	11.50	11.50	11.50	11.50	11.50	3464	closed	11.50	11.50	2347	11.50	closed	11.50	2233	11.50	11.50	closed	2347	1116.7	1230.2	1116.7	3463.6
47.10	8.55	11.50	11.50	11.50	11.50	11.50	11.50	3485	closed	11.50	11.50	2361	11.50	closed	11.50	2247	11.50	11.50	closed	2361	1123.5	1237.8	1123.5	3484.7
47.15	8.60	11.50	11.50	11.50	11.50	11.50	11.50	3506	closed	11.50	11.50	2376	11.50	closed	11.50	2261	11.50	11.50	closed	2376	1130.3	1245.3	1130.3	3506.0
47.20	8.65	11.50	11.50	11.50	11.50	11.50	11.50	3527	closed	11.50	11.50	2390	11.50	closed	11.50	2274	11.50	11.50	closed	2390	1137.2	1252.8	1137.2	3527.2
47.25	8.70	11.50	11.50	11.50	11.50	11.50	11.50	3548	closed	11.50	11.50	2404	11.50	closed	11.50	2288	11.50	11.50	closed	2404	1144.0	1260.4	1144.0	3548.5
47.30	8.75	11.50	11.50	11.50	11.50	11.50	11.50	3570	closed	11.50	11.50	2419	11.50	closed	11.50	2302	11.50	11.50	closed	2419	1150.9	1267.9	1150.9	3569.8
47.35	8.80	11.50	11.50	11.50	11.50	11.50	11.50	3591	closed	11.50	11.50	2433	11.50	closed	11.50	2316	11.50	11.50	closed	2433	1157.8	1275.5	1157.8	3591.1
47.40	8.85	11.50	11.50	11.50	11.50	11.50	11.50	3612	closed	11.50	11.50	2448	11.50	closed	11.50	2329	11.50	11.50	closed	2448	1164.7	1283.1	1164.7	3612.4
47.45	8.90	11.50	11.50	11.50	11.50	11.50	11.50	3634	closed	11.50	11.50	2462	11.50	closed	11.50	2343	11.50	11.50	closed	2462	1171.6	1290.7	1171.6	3633.8
47.50	8.95	11.50	11.50	11.50	11.50	11.50	11.50	3655	closed	11.50	11.50	2477	11.50	closed	11.50	2357	11.50	11.50	closed	2477	1178.5	1298.3	1178.5	3655.2
47.55	9.00	11.50	11.50	11.50	11.50	11.50	11.50	3677	closed	11.50	11.50	2491	11.50	closed	11.50	2371	11.50	11.50	closed	2491	1185.4	1305.9	1185.4	3676.6
47.60	9.05	11.50	11.50	11.50	11.50	11.50	11.50	3698	closed	11.50	11.50	2506	11.50	closed	11.50	2385	11.50	11.50	closed	2506	1192.3	1313.5	1192.3	3698.1
47.65	9.10	11.50	11.50	11.50	11.50	11.50	11.50	3720	closed	11.50	11.50	2520	11.50	closed	11.50	2398	11.50	11.50	closed	2520	1199.2	1321.2	1199.2	3719.6
47.70	9.15	11.50	11.50	11.50	11.50	11.50	11.50	3741	closed	11.50	11.50	2535	11.50	closed	11.50	2412	11.50	11.50	closed	2535	1206.1	1328.8	1206.1	3741.1
47.75	9.20	11.50	11.50	11.50	11.50	11.50	11.50	3763	closed	11.50	11.50	2550	11.50	closed	11.50	2426	11.50	11.50	closed	2550	1213.1	1336.5	1213.1	3762.6
47.80	9.25	11.50	11.50	11.50	11.50	11.50	11.50	3784	closed	11.50	11.50	2564	11.50	closed	11.50	2440	11.50	11.50	closed	2564	1220.0	1344.1	1220.0	3784.2
47.85	9.30	11.50	11.50	11.50	11.50	11.50	11.50	3806	closed	11.50	11.50	2579	11.50	closed	11.50	2454	11.50	11.50	closed	2579	1227.0	1351.8	1227.0	3805.8
47.90	9.35	11.50	11.50	11.50	11.50	11.50	11.50	3827	closed	11.50	11.50	2593	11.50	closed	11.50	2468	11.50	11.50	closed	2593	1234.0	1359.4	1234.0	3827.4
47.95	9.40	11.50	11.50	11.50	11.50	11.50	11.50	3849	closed	11.50	11.50	2608	11.50	closed	11.50	2482	11.50	11.50	closed	2608	1240.9	1367.1	1240.9	3849.0
48.00	9.45	11.50	11.50	11.50	11.50	11.50	11.50	3871	closed	11.50	11.50	2623	11.50	closed	11.50	2496	11.50	11.50	closed	2623	1247.9	1374.8	1247.9	3870.7
Note: Disch	arge rate do	es not i	nclude	flow ove	r the clos	sed gate		1																

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Table C10: Minimum Gate Settings-Water Level FALLING Table 50mm increments

Headwater	Headwater	Ga	ate Openino	g G _o	-	All Gates O	perational		Gate 1 cl	osed or In	operable		Gate 2 cl	osed or In	operable		Gate 3 cl	osed or In	operable	
Level	Level		(m)			(m)		Q		(m)		Q		(m)		Q		(m)		Q
(m AHD)	(m)	Left	Centre	Right	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)
(11174115)	(***)	1	2	3	1	2	3	(m /s)	1	2	3		1	2	3	Ì	1	2	3	
38.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	closed	closed	closed	0	closed	closed	closed	0	closed	closed	closed	0
38.60	0.05	0.25	0.25	0.25	0.25	0.25	0.25	56	closed	0.50	0.50	74	0.5	closed	0.5	70	0.50	0.50	closed	74
38.65	0.10	0.25	0.25	0.25	0.25	0.25	0.25	56	closed	0.50	0.50	74	0.5	closed	0.5	71	0.50	0.50	closed	74
38.70	0.15	0.50	0.50	0.50	0.50	0.50	0.50	110	closed	0.75	0.75	109	1.0	closed	1.0	136	0.75	0.75	closed	109
38.75	0.20	0.50	0.50	0.50	0.50	0.50	0.50	111	closed	0.75	0.75	110	1.00	closed	1.00	137	0.75	0.75	closed	110
38.80	0.25	0.75	0.75	0.75	0.75	0.75	0.75	164	closed	1.25	1.25	177	1.25	closed	1.25	169	1.25	1.25	closed	177
38.85	0.30	0.75	0.75	0.75	0.75	0.75	0.75	165	closed	1.25	1.25	178	1.25	closed	1.25	170	1.25	1.25	closed	178
38.90	0.35	0.75	0.75	0.75	0.75	0.75	0.75	166	closed	1.25	1.25	180	1.25	closed	1.25	171	1.25	1.25	closed	180
38.95	0.40	0.75	0.75	0.75	0.75	0.75	0.75	167	closed	1.25	1.25	181	1.25	closed	1.25	172	1.25	1.25	closed	181
39.00	0.45	1.00	1.00	1.00	1.00	1.00	1.00	219	closed	1.50	1.50	214	1.75	closed	1.75	233	1.50	1.50	closed	214
39.05	0.50	1.00	1.00	1.00	1.00	1.00	1.00	220	closed	1.50	1.50	215	1.75	closed	1.75	234	1.50	1.50	closed	215
39.10	0.55	1.00	1.00	1.00	1.00	1.00	1.00	222	closed	1.50	1.50	217	1.75	closed	1.75	236	1.50	1.50	closed	217
39.15	0.60	1.00	1.00	1.00	1.00	1.00	1.00	223	closed	1.50	1.50	218	1.75	closed	1.75	238	1.50	1.50	closed	218
39.20	0.65	1.00	1.00	1.00	1.00	1.00	1.00	225	closed	1.50	1.50	220	1.75	closed	1.75	239	1.50	1.50	closed	220
39.25	0.70	1.25	1.25	1.25	1.25	1.25	1.25	277	closed	2.00	2.00	284	2.00	closed	2.00	270	2.00	2.00	closed	284
39.30	0.75	1.25	1.25	1.25	1.25	1.25	1.25	279	closed	2.00	2.00	286	2.00	closed	2.00	272	2.00	2.00	closed	286
39.35	0.80	1.25	1.25	1.25	1.25	1.25	1.25	280	closed	2.00	2.00	288	2.00	closed	2.00	274	2.00	2.00	closed	288
39.40	0.85	1.25	1.25	1.25	1.25	1.25	1.25	282	closed	2.00	2.00	290	2.00	closed	2.00	275	2.00	2.00	closed	290
39.45	0.90	1.25	1.25	1.25	1.25	1.25	1.25	284	closed	2.00	2.00	291	2.00	closed	2.00	277	2.00	2.00	closed	291
39.50	0.95	1.50	1.50	1.50	1.50	1.50	1.50	336	closed	2.25	2.25	324	2.50	closed	2.50	336	2.25	2.25	closed	324
39.55	1.00	1.50	1.50	1.50	1.50	1.50	1.50	338	closed	2.25	2.25	326	2.50	closed	2.50	339	2.25	2.25	closed	326
39.60	1.05	1.50	1.50	1.50	1.50	1.50	1.50	340	closed	2.25	2.25	328	2.50	closed	2.50	341	2.25	2.25	closed	328
39.65	1.10	1.50	1.50	1.50	1.50	1.50	1.50	342	closed	2.25	2.25	330	2.50	closed	2.50	343	2.25	2.25	closed	330
39.70	1.15	1.50	1.50	1.50	1.50	1.50	1.50	344	closed	2.25	2.25	332	2.50	closed	2.50	345	2.25	2.25	closed	332
39.75	1.20	1.50	1.50	1.50	1.50	1.50	1.50	346	closed	2.25	2.25	335	2.50	closed	2.50	348	2.25	2.25	closed	335
39.80	1.25	1.50	1.75	1.50	1.50	1.75	1.50	366	closed	2.50	2.25	353	2.50	closed	2.50	350	2.25	2.50	closed	353
39.85	1.30	1.50	1.75	1.50	1.50	1.75	1.50	369	closed	2.50	2.25	355	2.50	closed	2.50	352	2.25	2.50	closed	355
39.90	1.35	1.50	1.75	1.50	1.50	1.75	1.50	371	closed	2.50	2.25	357	2.50	closed	2.50	354	2.25	2.50	closed	357
39.95	1.40	1.50	1.75	1.50	1.50	1.75	1.50	373	closed	2.50	2.25	359	2.50	closed	2.50	357	2.25	2.50	closed	359
40.00	1.45	1.50	1.75	1.50	1.50	1.75	1.50	375	closed	2.50	2.25	362	2.50	closed	2.50	359	2.25	2.50	closed	362
40.05	1.50	1.75	1.75	1.75	1.75	1.75	1.75	411	closed	2.75	2.75	410	2.75	closed	2.75	391	2.75	2.75	closed	410

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Table C10 (continued): Minimum Gate Settings-Water Level FALLING Table 50mm increments

Headwater	Headwater	Ga	ate Openino	g G _o		All Gates O	perational		Gate 1 cl	osed or In	operable		Gate 2 cl	osed or In	operable		Gate 3 cl	osed or In	operable	
Level	Level		(m)			(m)		Q		(m)		Q		(m)		Q		(m)		Q
(m AHD)	(m)	Left	Centre	Right	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)
(/)	()	1	2	3	1	2	3	(111 /5)	1	2	3		1	2	3		1	2	3	
40.10	1.55	1.75	1.75	1.75	1.75	1.75	1.75	413	closed	2.75	2.75	413	2.75	closed	2.75	393	2.75	2.75	closed	413
40.15	1.60	1.75	1.75	1.75	1.75	1.75	1.75	415	closed	2.75	2.75	415	2.75	closed	2.75	395	2.75	2.75	closed	415
40.20	1.65	1.75	1.75	1.75	1.75	1.75	1.75	418	closed	2.75	2.75	418	2.75	closed	2.75	398	2.75	2.75	closed	418
40.25	1.70	1.75	1.75	1.75	1.75	1.75	1.75	420	closed	2.75	2.75	420	2.75	closed	2.75	400	2.75	2.75	closed	420
40.30	1.75	2.00	2.00	2.00	2.00	2.00	2.00	475	closed	3.00	3.00	454	3.25	closed	3.25	461	3.00	3.00	closed	454
40.35	1.80	2.00	2.00	2.00	2.00	2.00	2.00	478	closed	3.00	3.00	457	3.25	closed	3.25	464	3.00	3.00	closed	457
40.40	1.85	2.00	2.00	2.00	2.00	2.00	2.00	480	closed	3.00	3.00	460	3.25	closed	3.25	466	3.00	3.00	closed	460
40.45	1.90	2.00	2.00	2.00	2.00	2.00	2.00	483	closed	3.00	3.00	462	3.25	closed	3.25	469	3.00	3.00	closed	462
40.50	1.95	2.00	2.00	2.00	2.00	2.00	2.00	485	closed	3.00	3.00	465	3.25	closed	3.25	472	3.00	3.00	closed	465
40.55	2.00	2.25	2.25	2.25	2.25	2.25	2.25	541	closed	3.50	3.50	529	3.50	closed	3.50	503	3.50	3.50	closed	529
40.60	2.05	2.25	2.25	2.25	2.25	2.25	2.25	543	closed	3.50	3.50	532	3.50	closed	3.50	506	3.50	3.50	closed	532
40.65	2.10	2.25	2.25	2.25	2.25	2.25	2.25	546	closed	3.50	3.50	535	3.50	closed	3.50	509	3.50	3.50	closed	535
40.70	2.15	2.25	2.25	2.25	2.25	2.25	2.25	549	closed	3.50	3.50	538	3.50	closed	3.50	512	3.50	3.50	closed	538
40.75	2.20	2.25	2.25	2.25	2.25	2.25	2.25	552	closed	3.50	3.50	542	3.50	closed	3.50	515	3.50	3.50	closed	542
40.80	2.25	2.50	2.50	2.50	2.50	2.50	2.50	608	closed	3.75	3.75	575	11.50	closed	11.50	747	3.75	3.75	closed	575
40.85	2.30	2.50	2.50	2.50	2.50	2.50	2.50	611	closed	3.75	3.75	579	11.50	closed	11.50	757	3.75	3.75	closed	579
40.90	2.35	2.50	2.50	2.50	2.50	2.50	2.50	614	closed	3.75	3.75	582	11.50	closed	11.50	767	3.75	3.75	closed	582
40.95	2.40	2.50	2.50	2.50	2.50	2.50	2.50	617	closed	3.75	3.75	585	11.50	closed	11.50	776	3.75	3.75	closed	585
41.00	2.45	2.50	2.50	2.50	2.50	2.50	2.50	620	closed	3.75	3.75	589	11.50	closed	11.50	786	3.75	3.75	closed	589
41.05	2.50	2.75	2.75	2.75	2.75	2.75	2.75	676	closed	11.50	11.50	836	11.50	closed	11.50	796	11.50	11.50	closed	836
41.10	2.55	2.75	2.75	2.75	2.75	2.75	2.75	680	closed	11.50	11.50	847	11.50	closed	11.50	806	11.50	11.50	closed	847
41.15	2.60	2.75	2.75	2.75	2.75	2.75	2.75	683	closed	11.50	11.50	857	11.50	closed	11.50	816	11.50	11.50	closed	857
41.20	2.65	2.75	2.75	2.75	2.75	2.75	2.75	686	closed	11.50	11.50	867	11.50	closed	11.50	825	11.50	11.50	closed	867
41.25	2.70	2.75	2.75	2.75	2.75	2.75	2.75	690	closed	11.50	11.50	878	11.50	closed	11.50	835	11.50	11.50	closed	878
41.30	2.75	2.75	3.00	2.75	2.75	3.00	2.75	712	closed	11.50	11.50	888	11.50	closed	11.50	845	11.50	11.50	closed	888
41.35	2.80	2.75	3.00	2.75	2.75	3.00	2.75	715	closed	11.50	11.50	899	11.50	closed	11.50	855	11.50	11.50	closed	899
41.40	2.85	2.75	3.00	2.75	2.75	3.00	2.75	719	closed	11.50	11.50	910	11.50	closed	11.50	866	11.50	11.50	closed	910
41.45	2.90	2.75	3.00	2.75	2.75	3.00	2.75	722	closed	11.50	11.50	920	11.50	closed	11.50	876	11.50	11.50	closed	920
41.50	2.95	2.75	3.00	2.75	2.75	3.00	2.75	725	closed	11.50	11.50	931	11.50	closed	11.50	886	11.50	11.50	closed	931
41.55	3.00	3.00	3.00	3.00	3.00	3.00	3.00	764	closed	11.50	11.50	942	11.50	closed	11.50	896	11.50	11.50	closed	942
41.60	3.05	3.00	3.00	3.00	3.00	3.00	3.00	768	closed	11.50	11.50	952	11.50	closed	11.50	906	11.50	11.50	closed	952

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Table C10 (continued): Minimum Gate Settings-Water Level FALLING Table 50mm increments

Headwater	Headwater	Ga	te Openin	g G₀	l l	All Gates O	perational		Gate 1 cl	osed or In	operable		Gate 2 cl	osed or In	operable		Gate 3 cl	osed or In	operable	
Level	Level		(m)			(m)		Q		(m)		Q		(m)		Q		(m)		Q
(m AHD)	(m)	Left	Centre	Right	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)
(III AIID)	(111)	1	2	3	1	2	3	(m /s)	1	2	3		1	2	3		1	2	3	
41.65	3.10	3.00	3.00	3.00	3.00	3.00	3.00	771	closed	11.50	11.50	963	11.50	closed	11.50	917	11.50	11.50	closed	963
41.70	3.15	3.00	3.00	3.00	3.00	3.00	3.00	775	closed	11.50	11.50	974	11.50	closed	11.50	927	11.50	11.50	closed	974
41.75	3.20	3.00	3.00	3.00	3.00	3.00	3.00	778	closed	11.50	11.50	985	11.50	closed	11.50	937	11.50	11.50	closed	985
41.80	3.25	3.25	3.25	3.25	3.25	3.25	3.25	837	closed	11.50	11.50	996	11.50	closed	11.50	948	11.50	11.50	closed	996
41.85	3.30	3.25	3.25	3.25	3.25	3.25	3.25	841	closed	11.50	11.50	1007	11.50	closed	11.50	958	11.50	11.50	closed	1007
41.90	3.35	3.25	3.25	3.25	3.25	3.25	3.25	844	closed	11.50	11.50	1018	11.50	closed	11.50	969	11.50	11.50	closed	1018
41.95	3.40	3.25	3.25	3.25	3.25	3.25	3.25	848	closed	11.50	11.50	1029	11.50	closed	11.50	979	11.50	11.50	closed	1029
42.00	3.45	3.25	3.25	3.25	3.25	3.25	3.25	852	closed	11.50	11.50	1040	11.50	closed	11.50	990	11.50	11.50	closed	1040
42.05	3.50	3.75	3.75	3.75	3.75	3.75	3.75	965	closed	11.50	11.50	1052	11.50	closed	11.50	1001	11.50	11.50	closed	1052
42.10	3.55	3.75	3.75	3.75	3.75	3.75	3.75	969	closed	11.50	11.50	1063	11.50	closed	11.50	1011	11.50	11.50	closed	1063
42.15	3.60	3.75	3.75	3.75	3.75	3.75	3.75	974	closed	11.50	11.50	1074	11.50	closed	11.50	1022	11.50	11.50	closed	1074
42.20	3.65	3.75	3.75	3.75	3.75	3.75	3.75	978	closed	11.50	11.50	1085	11.50	closed	11.50	1033	11.50	11.50	closed	1085
42.25	3.70	3.75	3.75	3.75	3.75	3.75	3.75	982	closed	11.50	11.50	1097	11.50	closed	11.50	1044	11.50	11.50	closed	1097
42.30	3.75	3.75	11.50	3.75	3.75	11.50	3.75	1217	closed	11.50	11.50	1108	11.50	closed	11.50	1054	11.50	11.50	closed	1108
42.35	3.80	3.75	11.50	3.75	3.75	11.50	3.75	1226	closed	11.50	11.50	1120	11.50	closed	11.50	1065	11.50	11.50	closed	1120
42.40	3.85	3.75	11.50	3.75	3.75	11.50	3.75	1234	closed	11.50	11.50	1131	11.50	closed	11.50	1076	11.50	11.50	closed	1131
42.45	3.90	3.75	11.50	3.75	3.75	11.50	3.75	1243	closed	11.50	11.50	1142	11.50	closed	11.50	1087	11.50	11.50	closed	1142
42.50	3.95	3.75	11.50	3.75	3.75	11.50	3.75	1252	closed	11.50	11.50	1154	11.50	closed	11.50	1098	11.50	11.50	closed	1154
42.55	4.00	11.50	11.50	11.50	11.50	11.50	11.50	1720	closed	11.50	11.50	1166	11.50	closed	11.50	1109	11.50	11.50	closed	1166
42.60	4.05	11.50	11.50	11.50	11.50	11.50	11.50	1737	closed	11.50	11.50	1177	11.50	closed	11.50	1120	11.50	11.50	closed	1177
42.65	4.10	11.50	11.50	11.50	11.50	11.50	11.50	1755	closed	11.50	11.50	1189	11.50	closed	11.50	1131	11.50	11.50	closed	1189
42.70	4.15	11.50	11.50	11.50	11.50	11.50	11.50	1772	closed	11.50	11.50	1201	11.50	closed	11.50	1143	11.50	11.50	closed	1201
42.75	4.20	11.50	11.50	11.50	11.50	11.50	11.50	1789	closed	11.50	11.50	1212	11.50	closed	11.50	1154	11.50	11.50	closed	1212
42.80	4.25	11.50	11.50	11.50	11.50	11.50	11.50	1807	closed	11.50	11.50	1224	11.50	closed	11.50	1165	11.50	11.50	closed	1224
42.85	4.30	11.50	11.50	11.50	11.50	11.50	11.50	1824	closed	11.50	11.50	1236	11.50	closed	11.50	1176	11.50	11.50	closed	1236
42.90	4.35	11.50	11.50	11.50	11.50	11.50	11.50	1842	closed	11.50	11.50	1248	11.50	closed	11.50	1187	11.50	11.50	closed	1248
42.95	4.40	11.50	11.50	11.50	11.50	11.50	11.50	1859	closed	11.50	11.50	1260	11.50	closed	11.50	1199	11.50	11.50	closed	1260
43.00	4.45	11.50	11.50	11.50	11.50	11.50	11.50	1877	closed	11.50	11.50	1272	11.50	closed	11.50	1210	11.50	11.50	closed	1272
43.05	4.50	11.50	11.50	11.50	11.50	11.50	11.50	1895	closed	11.50	11.50	1284	11.50	closed	11.50	1222	11.50	11.50	closed	1284
43.10	4.55	11.50	11.50	11.50	11.50	11.50	11.50	1912	closed	11.50	11.50	1296	11.50	closed	11.50	1233	11.50	11.50	closed	1296

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Table C10 (continued): Minimum Gate Settings-Water Level FALLING Table 50mm increments

Headwater	Headwater	Ga	te Openino	g G₀	1	All Gates O	perational		Gate 1 cl	osed or In	operable		Gate 2 cl	osed or In	operable		Gate 3 cl	osed or Ir	operable	
Level	Level		(m)			(m)		Q		(m)		Q		(m)		Q		(m)		Q
(m AHD)	(m)	Left	Centre	Right	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)
(1117412)	(111)	1	2	3	1	2	3	(m /s)	1	2	3		1	2	3		1	2	3	
43.20	4.65	11.50	11.50	11.50	11.50	11.50	11.50	1948	closed	11.50	11.50	1320	11.50	closed	11.50	1256	11.50	11.50	closed	1320
43.25	4.70	11.50	11.50	11.50	11.50	11.50	11.50	1966	closed	11.50	11.50	1332	11.50	closed	11.50	1268	11.50	11.50	closed	1332
43.30	4.75	11.50	11.50	11.50	11.50	11.50	11.50	1984	closed	11.50	11.50	1344	11.50	closed	11.50	1279	11.50	11.50	closed	1344
43.35	4.80	11.50	11.50	11.50	11.50	11.50	11.50	2002	closed	11.50	11.50	1356	11.50	closed	11.50	1291	11.50	11.50	closed	1356
43.40	4.85	11.50	11.50	11.50	11.50	11.50	11.50	2020	closed	11.50	11.50	1369	11.50	closed	11.50	1302	11.50	11.50	closed	1369
43.45	4.90	11.50	11.50	11.50	11.50	11.50	11.50	2038	closed	11.50	11.50	1381	11.50	closed	11.50	1314	11.50	11.50	closed	1381
43.50	4.95	11.50	11.50	11.50	11.50	11.50	11.50	2056	closed	11.50	11.50	1393	11.50	closed	11.50	1326	11.50	11.50	closed	1393
43.55	5.00	11.50	11.50	11.50	11.50	11.50	11.50	2074	closed	11.50	11.50	1406	11.50	closed	11.50	1338	11.50	11.50	closed	1406
43.60	5.05	11.50	11.50	11.50	11.50	11.50	11.50	2093	closed	11.50	11.50	1418	11.50	closed	11.50	1349	11.50	11.50	closed	1418
43.65	5.10	11.50	11.50	11.50	11.50	11.50	11.50	2111	closed	11.50	11.50	1430	11.50	closed	11.50	1361	11.50	11.50	closed	1430
43.70	5.15	11.50	11.50	11.50	11.50	11.50	11.50	2129	closed	11.50	11.50	1443	11.50	closed	11.50	1373	11.50	11.50	closed	1443
43.75	5.20	11.50	11.50	11.50	11.50	11.50	11.50	2148	closed	11.50	11.50	1455	11.50	closed	11.50	1385	11.50	11.50	closed	1455
43.80	5.25	11.50	11.50	11.50	11.50	11.50	11.50	2166	closed	11.50	11.50	1468	11.50	closed	11.50	1397	11.50	11.50	closed	1468
43.85	5.30	11.50	11.50	11.50	11.50	11.50	11.50	2185	closed	11.50	11.50	1480	11.50	closed	11.50	1409	11.50	11.50	closed	1480
43.90	5.35	11.50	11.50	11.50	11.50	11.50	11.50	2203	closed	11.50	11.50	1493	11.50	closed	11.50	1421	11.50	11.50	closed	1493
43.95	5.40	11.50	11.50	11.50	11.50	11.50	11.50	2222	closed	11.50	11.50	1506	11.50	closed	11.50	1433	11.50	11.50	closed	1506
44.00	5.45	11.50	11.50	11.50	11.50	11.50	11.50	2241	closed	11.50	11.50	1518	11.50	closed	11.50	1445	11.50	11.50	closed	1518
44.05	5.50	11.50	11.50	11.50	11.50	11.50	11.50	2260	closed	11.50	11.50	1531	11.50	closed	11.50	1457	11.50	11.50	closed	1531
44.10	5.55	11.50	11.50	11.50	11.50	11.50	11.50	2278	closed	11.50	11.50	1544	11.50	closed	11.50	1469	11.50	11.50	closed	1544
44.15	5.60	11.50	11.50	11.50	11.50	11.50	11.50	2297	closed	11.50	11.50	1557	11.50	closed	11.50	1481	11.50	11.50	closed	1557
44.20	5.65	11.50	11.50	11.50	11.50	11.50	11.50	2316	closed	11.50	11.50	1569	11.50	closed	11.50	1493	11.50	11.50	closed	1569
44.25	5.70	11.50	11.50	11.50	11.50	11.50	11.50	2335	closed	11.50	11.50	1582	11.50	closed	11.50	1506	11.50	11.50	closed	1582
44.30	5.75	11.50	11.50	11.50	11.50	11.50	11.50	2354	closed	11.50	11.50	1595	11.50	closed	11.50	1518	11.50	11.50	closed	1595
44.35	5.80	11.50	11.50	11.50	11.50	11.50	11.50	2373	closed	11.50	11.50	1608	11.50	closed	11.50	1530	11.50	11.50	closed	1608
44.40	5.85	11.50	11.50	11.50	11.50	11.50	11.50	2392	closed	11.50	11.50	1621	11.50	closed	11.50	1542	11.50	11.50	closed	1621
44.45	5.90	11.50	11.50	11.50	11.50	11.50	11.50	2411	closed	11.50	11.50	1634	11.50	closed	11.50	1555	11.50	11.50	closed	1634
44.50	5.95	11.50	11.50	11.50	11.50	11.50	11.50	2430	closed	11.50	11.50	1647	11.50	closed	11.50	1567	11.50	11.50	closed	1647
44.55	6.00	11.50	11.50	11.50	11.50	11.50	11.50	2450	closed	11.50	11.50	1660	11.50	closed	11.50	1580	11.50	11.50	closed	1660
44.60	6.05	11.50	11.50	11.50	11.50	11.50	11.50	2469	closed	11.50	11.50	1673	11.50	closed	11.50	1592	11.50	11.50	closed	1673
44.65	6.10	11.50	11.50	11.50	11.50	11.50	11.50	2488	closed	11.50	11.50	1686	11.50	closed	11.50	1604	11.50	11.50	closed	1686
44.70	6.15	11.50	11.50	11.50	11.50	11.50	11.50	2508	closed	11.50	11.50	1699	11.50	closed	11.50	1617	11.50	11.50	closed	1699
44.75	6.20	11.50	11.50	11.50	11.50	11.50	11.50	2527	closed	11.50	11.50	1712	11.50	closed	11.50	1629	11.50	11.50	closed	1712

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Table C10 (continued): Minimum Gate Settings-Water Level FALLING Table 50mm increments

Headwater	Headwater	Ga	te Openino	g G _o		All Gates O	perational		Gate 1 cl	osed or In	operable		Gate 2 cl	osed or In	operable		Gate 3 cl	osed or In	operable	
Level	Level		(m)			(m)		Q		(m)		Q		(m)		Q		(m)		Q
(m AHD)	(m)	Left	Centre	Right	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)
(III AIID)	(111)	1	2	3	1	2	3	(m /s)	1	2	3		1	2	3		1	2	3	
44.80	6.25	11.50	11.50	11.50	11.50	11.50	11.50	2546	closed	11.50	11.50	1725	11.50	closed	11.50	1642	11.50	11.50	closed	1725
44.85	6.30	11.50	11.50	11.50	11.50	11.50	11.50	2566	closed	11.50	11.50	1739	11.50	closed	11.50	1655	11.50	11.50	closed	1739
44.90	6.35	11.50	11.50	11.50	11.50	11.50	11.50	2586	closed	11.50	11.50	1752	11.50	closed	11.50	1667	11.50	11.50	closed	1752
44.95	6.40	11.50	11.50	11.50	11.50	11.50	11.50	2605	closed	11.50	11.50	1765	11.50	closed	11.50	1680	11.50	11.50	closed	1765
45.00	6.45	11.50	11.50	11.50	11.50	11.50	11.50	2625	closed	11.50	11.50	1779	11.50	closed	11.50	1692	11.50	11.50	closed	1779
45.05	6.50	11.50	11.50	11.50	11.50	11.50	11.50	2644	closed	11.50	11.50	1792	11.50	closed	11.50	1705	11.50	11.50	closed	1792
45.10	6.55	11.50	11.50	11.50	11.50	11.50	11.50	2664	closed	11.50	11.50	1805	11.50	closed	11.50	1718	11.50	11.50	closed	1805
45.15	6.60	11.50	11.50	11.50	11.50	11.50	11.50	2684	closed	11.50	11.50	1819	11.50	closed	11.50	1731	11.50	11.50	closed	1819
45.20	6.65	11.50	11.50	11.50	11.50	11.50	11.50	2704	closed	11.50	11.50	1832	11.50	closed	11.50	1743	11.50	11.50	closed	1832
45.25	6.70	11.50	11.50	11.50	11.50	11.50	11.50	2724	closed	11.50	11.50	1846	11.50	closed	11.50	1756	11.50	11.50	closed	1846
45.30	6.75	11.50	11.50	11.50	11.50	11.50	11.50	2743	closed	11.50	11.50	1859	11.50	closed	11.50	1769	11.50	11.50	closed	1859
45.35	6.80	11.50	11.50	11.50	11.50	11.50	11.50	2763	closed	11.50	11.50	1872	11.50	closed	11.50	1782	11.50	11.50	closed	1872
45.40	6.85	11.50	11.50	11.50	11.50	11.50	11.50	2783	closed	11.50	11.50	1886	11.50	closed	11.50	1795	11.50	11.50	closed	1886
45.45	6.90	11.50	11.50	11.50	11.50	11.50	11.50	2803	closed	11.50	11.50	1900	11.50	closed	11.50	1808	11.50	11.50	closed	1900
45.50	6.95	11.50	11.50	11.50	11.50	11.50	11.50	2823	closed	11.50	11.50	1913	11.50	closed	11.50	1821	11.50	11.50	closed	1913
45.55	7.00	11.50	11.50	11.50	11.50	11.50	11.50	2844	closed	11.50	11.50	1927	11.50	closed	11.50	1834	11.50	11.50	closed	1927
45.60	7.05	11.50	11.50	11.50	11.50	11.50	11.50	2864	closed	11.50	11.50	1940	11.50	closed	11.50	1847	11.50	11.50	closed	1940
45.65	7.10	11.50	11.50	11.50	11.50	11.50	11.50	2884	closed	11.50	11.50	1954	11.50	closed	11.50	1860	11.50	11.50	closed	1954
45.70	7.15	11.50	11.50	11.50	11.50	11.50	11.50	2904	closed	11.50	11.50	1968	11.50	closed	11.50	1873	11.50	11.50	closed	1968
45.75	7.20	11.50	11.50	11.50	11.50	11.50	11.50	2924	closed	11.50	11.50	1982	11.50	closed	11.50	1886	11.50	11.50	closed	1982
45.80	7.25	11.50	11.50	11.50	11.50	11.50	11.50	2945	closed	11.50	11.50	1995	11.50	closed	11.50	1899	11.50	11.50	closed	1995
45.85	7.30	11.50	11.50	11.50	11.50	11.50	11.50	2965	closed	11.50	11.50	2009	11.50	closed	11.50	1912	11.50	11.50	closed	2009
45.90	7.35	11.50	11.50	11.50	11.50	11.50	11.50	2985	closed	11.50	11.50	2023	11.50	closed	11.50	1925	11.50	11.50	closed	2023
45.95	7.40	11.50	11.50	11.50	11.50	11.50	11.50	3006	closed	11.50	11.50	2037	11.50	closed	11.50	1938	11.50	11.50	closed	2037
46.00	7.45	11.50	11.50	11.50	11.50	11.50	11.50	3026	closed	11.50	11.50	2051	11.50	closed	11.50	1951	11.50	11.50	closed	2051
46.05	7.50	11.50	11.50	11.50	11.50	11.50	11.50	3047	closed	11.50	11.50	2064	11.50	closed	11.50	1965	11.50	11.50	closed	2064
46.10	7.55	11.50	11.50	11.50	11.50	11.50	11.50	3067	closed	11.50	11.50	2078	11.50	closed	11.50	1978	11.50	11.50	closed	2078
46.15	7.60	11.50	11.50	11.50	11.50	11.50	11.50	3088	closed	11.50	11.50	2092	11.50	closed	11.50	1991	11.50	11.50	closed	2092
46.20	7.65	11.50	11.50	11.50	11.50	11.50	11.50	3108	closed	11.50	11.50	2106	11.50	closed	11.50	2004	11.50	11.50	closed	2106
46.25	7.70	11.50	11.50	11.50	11.50	11.50	11.50	3129	closed	11.50	11.50	2120	11.50	closed	11.50	2018	11.50	11.50	closed	2120
46.30	7.75	11.50	11.50	11.50	11.50	11.50	11.50	3150	closed	11.50	11.50	2134	11.50	closed	11.50	2031	11.50	11.50	closed	2134

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Table C10 (continued): Minimum Gate Settings-Water Level FALLING Table 50mm increments

Headwater	Headwater	Ga	ate Opening	g G₀	, A	All Gates O	perational		Gate 1 cl	osed or In	operable		Gate 2 cl	osed or In	operable		Gate 3 cl	osed or In	operable	
Level	Level		(m)			(m)		Q		(m)		Q		(m)		Q		(m)		Q
		Left	Centre	Right	Left	Centre	Right		Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)	Left	Centre	Right	(m ³ /s)
(m AHD)	(m)	1	2	3	1	2	3	(m ³ /s)	1	2	3		1	2	3		1	2	3	
46.35	7.80	11.50	11.50	11.50	11.50	11.50	11.50	3170	closed	11.50	11.50	2148	11.50	closed	11.50	2044	11.50	11.50	closed	2148
46.40	7.85	11.50	11.50	11.50	11.50	11.50	11.50	3191	closed	11.50	11.50	2162	11.50	closed	11.50	2058	11.50	11.50	closed	2162
46.45	7.90	11.50	11.50	11.50	11.50	11.50	11.50	3212	closed	11.50	11.50	2176	11.50	closed	11.50	2071	11.50	11.50	closed	2176
46.50	7.95	11.50	11.50	11.50	11.50	11.50	11.50	3233	closed	11.50	11.50	2190	11.50	closed	11.50	2084	11.50	11.50	closed	2190
46.55	8.00	11.50	11.50	11.50	11.50	11.50	11.50	3253	closed	11.50	11.50	2205	11.50	closed	11.50	2098	11.50	11.50	closed	2205
46.60	8.05	11.50	11.50	11.50	11.50	11.50	11.50	3274	closed	11.50	11.50	2219	11.50	closed	11.50	2111	11.50	11.50	closed	2219
46.65	8.10	11.50	11.50	11.50	11.50	11.50	11.50	3295	closed	11.50	11.50	2233	11.50	closed	11.50	2125	11.50	11.50	closed	2233
46.70	8.15	11.50	11.50	11.50	11.50	11.50	11.50	3316	closed	11.50	11.50	2247	11.50	closed	11.50	2138	11.50	11.50	closed	2247
46.75	8.20	11.50	11.50	11.50	11.50	11.50	11.50	3337	closed	11.50	11.50	2261	11.50	closed	11.50	2152	11.50	11.50	closed	2261
46.80	8.25	11.50	11.50	11.50	11.50	11.50	11.50	3358	closed	11.50	11.50	2275	11.50	closed	11.50	2165	11.50	11.50	closed	2275
46.85	8.30	11.50	11.50	11.50	11.50	11.50	11.50	3379	closed	11.50	11.50	2290	11.50	closed	11.50	2179	11.50	11.50	closed	2290
46.90	8.35	11.50	11.50	11.50	11.50	11.50	11.50	3400	closed	11.50	11.50	2304	11.50	closed	11.50	2192	11.50	11.50	closed	2304
46.95	8.40	11.50	11.50	11.50	11.50	11.50	11.50	3421	closed	11.50	11.50	2318	11.50	closed	11.50	2206	11.50	11.50	closed	2318
47.00	8.45	11.50	11.50	11.50	11.50	11.50	11.50	3442	closed	11.50	11.50	2333	11.50	closed	11.50	2220	11.50	11.50	closed	2333
47.05	8.50	11.50	11.50	11.50	11.50	11.50	11.50	3464	closed	11.50	11.50	2347	11.50	closed	11.50	2233	11.50	11.50	closed	2347
47.10	8.55	11.50	11.50	11.50	11.50	11.50	11.50	3485	closed	11.50	11.50	2361	11.50	closed	11.50	2247	11.50	11.50	closed	2361
47.15	8.60	11.50	11.50	11.50	11.50	11.50	11.50	3506	closed	11.50	11.50	2376	11.50	closed	11.50	2261	11.50	11.50	closed	2376
47.20	8.65	11.50	11.50	11.50	11.50	11.50	11.50	3527	closed	11.50	11.50	2390	11.50	closed	11.50	2274	11.50	11.50	closed	2390
47.25	8.70	11.50	11.50	11.50	11.50	11.50	11.50	3548	closed	11.50	11.50	2404	11.50	closed	11.50	2288	11.50	11.50	closed	2404
47.30	8.75	11.50	11.50	11.50	11.50	11.50	11.50	3570	closed	11.50	11.50	2419	11.50	closed	11.50	2302	11.50	11.50	closed	2419
47.35	8.80	11.50	11.50	11.50	11.50	11.50	11.50	3591	closed	11.50	11.50	2433	11.50	closed	11.50	2316	11.50	11.50	closed	2433
47.40	8.85	11.50	11.50	11.50	11.50	11.50	11.50	3612	closed	11.50	11.50	2448	11.50	closed	11.50	2329	11.50	11.50	closed	2448
47.45	8.90	11.50	11.50	11.50	11.50	11.50	11.50	3634	closed	11.50	11.50	2462	11.50	closed	11.50	2343	11.50	11.50	closed	2462
47.50	8.95	11.50	11.50	11.50	11.50	11.50	11.50	3655	closed	11.50	11.50	2477	11.50	closed	11.50	2357	11.50	11.50	closed	2477
47.55	9.00	11.50	11.50	11.50	11.50	11.50	11.50	3677	closed	11.50	11.50	2491	11.50	closed	11.50	2371	11.50	11.50	closed	2491
47.60	9.05	11.50	11.50	11.50	11.50	11.50	11.50	3698	closed	11.50	11.50	2506	11.50	closed	11.50	2385	11.50	11.50	closed	2506
47.65	9.10	11.50	11.50	11.50	11.50	11.50	11.50	3720	closed	11.50	11.50	2520	11.50	closed	11.50	2398	11.50	11.50	closed	2520
47.70	9.15	11.50	11.50	11.50	11.50	11.50	11.50	3741	closed	11.50	11.50	2535	11.50	closed	11.50	2412	11.50	11.50	closed	2535
47.75	9.20	11.50	11.50	11.50	11.50	11.50	11.50	3763	closed	11.50	11.50	2550	11.50	closed	11.50	2426	11.50	11.50	closed	2550
47.80	9.25	11.50	11.50	11.50	11.50	11.50	11.50	3784	closed	11.50	11.50	2564	11.50	closed	11.50	2440	11.50	11.50	closed	2564
47.85	9.30	11.50	11.50	11.50	11.50	11.50	11.50	3806	closed	11.50	11.50	2579	11.50	closed	11.50	2454	11.50	11.50	closed	2579
47.90	9.35	11.50	11.50	11.50	11.50	11.50	11.50	3827	closed	11.50	11.50	2593	11.50	closed	11.50	2468	11.50	11.50	closed	2593
47.95	9.40	11.50	11.50	11.50	11.50	11.50	11.50	3849	closed	11.50	11.50	2608	11.50	closed	11.50	2482	11.50	11.50	closed	2608
48.00	9.45	11.50	11.50	11.50	11.50	11.50	11.50	3871	closed	11.50	11.50	2623	11.50	closed	11.50	2496	11.50	11.50	closed	2623
Note: Disch	narge rate o	loes not	include fl	ow over t	he close	d gate		•				•								

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Responsible Officer:



RD0032 Ross River Dam Emergency Action Plan

Authorised by: Principal Dam Safety & Operations N02632

Effective Date: 30/09/2024

Appendix C6 – Ross River Dam Storage Curve

Figure C1: Ross River Dam Storage Curve

