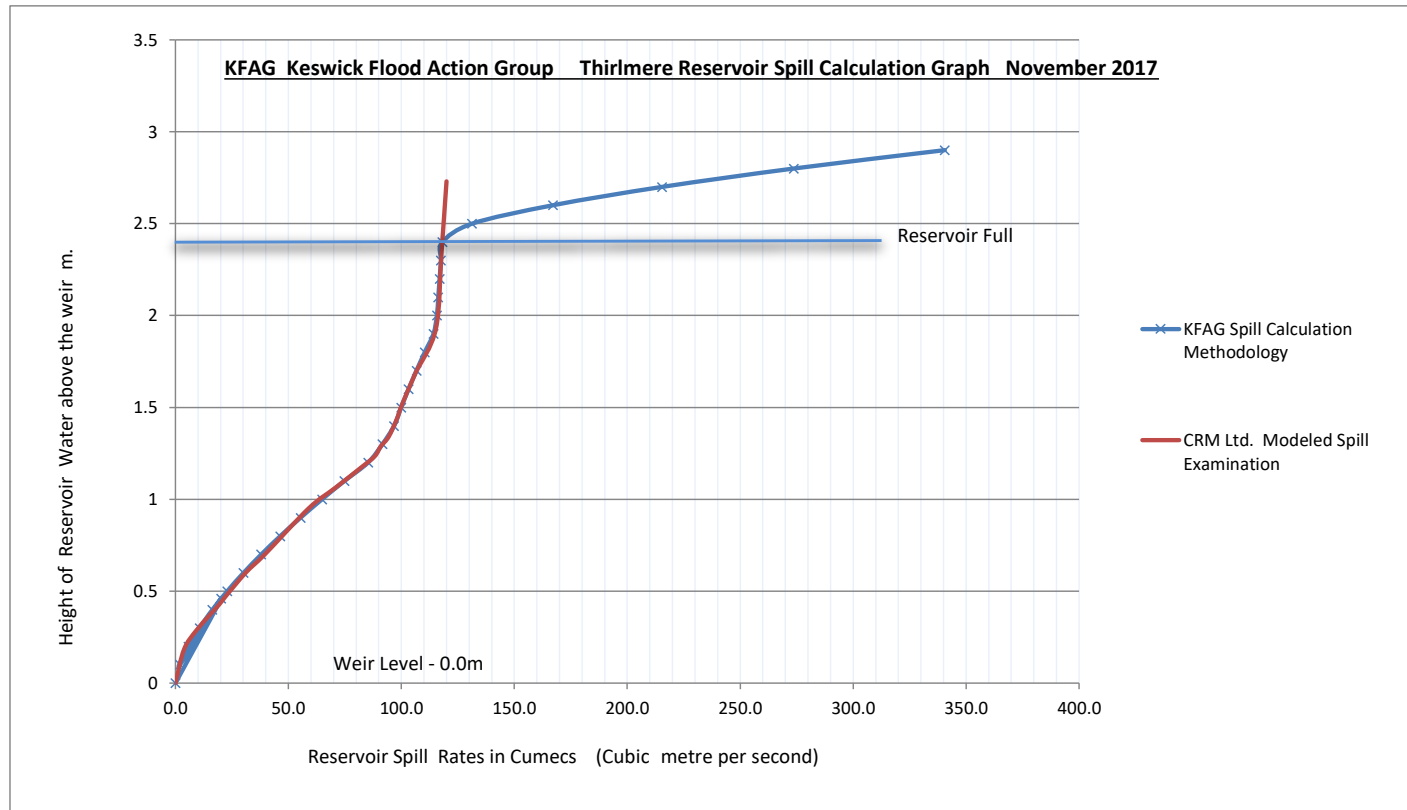


Applied Equations	$Q=Cd\sqrt{g}BH^{1.5}$		Transition equation 1		Transition equation 2		Transition equation 3		Wave wall spilling equation		Read results Here		This study and demonstration based on evidence and data made available to KFAG in 2017 ©KFAG 2020 n.b no external pier review received to date	
	Cd	\sqrt{g}	weir width B m. (UU/Jacobs)	Sp= 149.89*Ht ² -328.01*Ht+264.73	Sp= 9.3988*Ht ² +3.7465*Ht+73.15	Sp= -0.3138*Ht ² +7.3222*Ht+102.3	Cd	\sqrt{g}	Wall weir width (UU/Jacobs)	272				
Type in Res Height Here	"If" logic transition zone		"If" logic transition zone		"If" logic transition zone		"If" logic transition zone		additional spilling over wall					
Reservoir Water Levels	Ht above weir	Weir Ht condition	Spill - Sp m ³	Weir Ht condition	Spill - Sp m ³	Weir Ht condition	Spill - Sp m ³	Weir Ht condition	Spill - Sp m ³	Ht above Wave Wall	Wall Spill m ³	Total Spill m ³ /s	MI/Day	Warnings
16.55	0	0	0.00	0	0.00	0	0.00	0	0.00	0.00	0.00	0.0	0	
17.01	0.46	0.46	20.24	0	0.00	0	0.00	0	0.00	0.00	0.00	20.2	1749	
16.65	0.1	0.1	2.05	0	0.00	0	0.00	0	0.00	0.00	0.00	2.1	177	
16.75	0.2	0.2	5.80	0	0.00	0	0.00	0	0.00	0.00	0.00	5.8	501	
16.85	0.3	0.3	10.66	0	0.00	0	0.00	0	0.00	0.00	0.00	10.7	921	
16.95	0.4	0.4	16.41	0	0.00	0	0.00	0	0.00	0.00	0.00	16.4	1418	
17.05	0.5	0.5	22.93	0	0.00	0	0.00	0	0.00	0.00	0.00	22.9	1981	
17.15	0.6	0.6	30.15	0	0.00	0	0.00	0	0.00	0.00	0.00	30.1	2605	
17.25	0.7	0.7	37.99	0	0.00	0	0.00	0	0.00	0.00	0.00	38.0	3282	
17.35	0.8	0.8	46.41	0	0.00	0	0.00	0	0.00	0.00	0.00	46.4	4010	
17.45	0.9	0.9	55.38	0	0.00	0	0.00	0	0.00	0.00	0.00	55.4	4785	
17.55	1	1	64.87	0	0.00	0	0.00	0	0.00	0.00	0.00	64.9	5604	
17.65	1.1	1.1	74.84	0	0.00	0	0.00	0	0.00	0.00	0.00	74.8	6466	
17.75	1.2	1.2	85.27	0	0.00	0	0.00	0	0.00	0.00	0.00	85.3	7367	
17.85	1.3	0	0.00	1.3	91.63	0	0.00	0	0.00	0.00	0.00	91.6	7917	Tunnel restricted
17.95	1.4	0	0.00	0	0.00	1.4	96.82	0	0.00	0.00	0.00	96.8	8365	Swallow hole filling
18.05	1.5	0	0.00	0	0.00	1.5	99.92	0	0.00	0.00	0.00	100	8633	Swallow hole filling
18.15	1.6	0	0.00	0	0.00	1.6	103.21	0	0.00	0.00	0.00	103	8917	Swallow hole filling
18.25	1.7	0	0.00	0	0.00	1.7	106.68	0	0.00	0.00	0.00	107	9217	Swallow hole filling
18.35	1.8	0	0.00	0	0.00	1.8	110.35	0	0.00	0.00	0.00	110	9534	Swallow hole filling
18.45	1.9	0	0.00	0	0.00	1.9	114.20	0	0.00	0.00	0.00	114	9867	Swallow hole filling
18.55	2	0	0.00	0	0.00	0	0.00	2	115.74	0.00	0.00	116	10000	Warning Weir Drowned
18.65	2.1	0	0.00	0	0.00	0	0.00	2.1	116.34	0.00	0.00	116	10052	Warning Weir Drowned
18.75	2.2	0	0.00	0	0.00	0	0.00	2.2	116.94	0.00	0.00	117	10104	Warning Weir Drowned
18.85	2.3	0	0.00	0	0.00	0	0.00	2.3	117.53	0.00	0.00	118	10155	Warning Weir Drowned
18.95	2.4	0	0.00	0	0.00	0	0.00	2.4	118.12	0.00	0.00	118	10205	Warning Weir Drowned
19.05	2.5	0	0.00	0	0.00	0	0.00	2.5	118.69	0.07	12.62	131	11346	Danger Reservoir overtopping
19.15	2.6	0	0.00	0	0.00	0	0.00	2.6	119.27	0.17	47.77	167	14432	Danger Reservoir overtopping
19.25	2.7	0	0.00	0	0.00	0	0.00	2.7	119.83	0.27	95.62	215	18615	Danger Reservoir overtopping
19.35	2.8	0	0.00	0	0.00	0	0.00	2.8	120.39	0.37	153.39	274	23655	Danger Reservoir overtopping
19.45	2.9	0	0.00	0	0.00	0	0.00	2.9	120.95	0.47	219.60	341	29423	Danger Reservoir overtopping
19.55	3	0	0.00	0	0.00	0	0.00	3	121.49	0.57	293.30	415	35838	Danger Reservoir overtopping

CRM Model	
Flow	Ht above weir
0	0
3.8	0.183
9.5	0.29
19.3	0.427
22.2	0.472
31.2	0.602
39.6	0.701
59.1	0.952
70.7	1.062
82.5	1.176
88.2	1.234
90.9	1.288
94.4	1.341
98.1	1.44
100.1	1.509
106.2	1.685
115.3	1.928
117.8	2.346
120	2.73



CRM Model data

