

		HOF and Flow Split Percentage Calculations								
SITE:	Nant Llyn Glan Gors									
Hands Off Flow (Q95)	5.7 l/s									
Residual above HOF	30%									
Min Turbine Flow	6.8 l/s									
Max Turbine Flow	67.6 l/s									
Notch Flow = Width x Discharge Coefficient x Level^1.5										
Screen Notch			Residual Flow Notch				HOF Notch			
Level	0 m (datum level)		Level relative to screen notch		-0.01 m		Level relative to screen notch		-0.05 m	
Elevation	137.34 m AOD		Elevation		137.33 m AOD		Elevation		137.29 m AOD	
Width	2.5 m		Width		0.55 m		Width		0.23 m	
Discharge Coefficient	1.55 Coanda on broad crest Cd		Discharge co-efficient		1.6 Broad Crested		Discharge co-efficient		1.6 Broad crested	
			Width of Residual + HOF notches		0.780 m					
Water Level above Weir Crest (Height)	Flow over Screen Section	Level above HOF notch	Flow in HOF section	Level above residual notch	Flow in residual notch	Total flow	Quantity abstracted (Turbine Flow)	Total residual flow	Target residual flow	% residual above HOF
m	l/s	m	l/s	m	l/s	l/s	l/s	l/s	l/s	
0	0.0	0.05	4.1	0.01	0.9	5.0	0.0	5.0	5.0	100%
0.01	3.9	0.06	5.41	0.02	2.5	11.8	0.0	11.8	7.5	100%
0.02	11.0	0.07	6.8	0.03	4.6	22.3	11.0	11.4	10.7	34%
0.03	20.1	0.08	8.3	0.04	7.0	35.5	20.1	15.4	14.6	32%
0.04	31.0	0.09	9.9	0.05	9.8	50.8	31.0	19.8	19.2	31%
0.05	43.3	0.1	11.6	0.06	12.9	67.9	43.3	24.6	24.4	30%
0.06	57.0	0.11	13.4	0.07	16.3	86.7	57.0	29.7	30.0	30%
0.07	71.8	0.12	15.3	0.08	19.9	107.0	67.6	39.4	36.1	33%
0.08	87.7	0.13	17.2	0.09	23.8	128.7	67.6	61.1	42.6	45%
0.09	104.6	0.14	19.3	0.1	27.8	151.7	67.6	84.1	49.5	54%
0.1	122.5	0.15	21.4	0.11	32.1	176.0	67.6	108.4	56.8	60%
0.11	141.4	0.16	23.6	0.12	36.6	201.5	67.6	133.9	64.4	65%
0.12	161.1	0.17	25.8	0.13	41.2	228.1	67.6	160.5	72.4	70%
0.13	181.6	0.18	28.1	0.14	46.1	255.8	67.6	188.2	80.7	73%
0.14	203.0	0.19	30.5	0.15	51.1	284.6	67.6	217.0	89.4	76%
0.15	225.1	0.2	32.9	0.16	56.3	314.4	67.6	246.8	98.3	78%