

WML Consulting Ltd					Page 1
No. 8 Oak Green Stanley Green Business Park Earl Rd, Cheadle Hulme, SK8 6QL					
Date 23/12/2022 09:57 File Storage.SRCX		Designed by richa Checked by			
Innovyze		Source Control 2020.1.3			
<u>Summary of Results for 100 year Return Period (+45%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
15 min Summer	64.909	0.409	0.2	20.4	O K
30 min Summer	65.035	0.535	0.3	26.8	O K
60 min Summer	65.165	0.665	0.3	33.2	O K
120 min Summer	65.292	0.792	0.3	39.6	O K
180 min Summer	65.360	0.860	0.3	43.0	O K
240 min Summer	65.402	0.902	0.3	45.1	O K
360 min Summer	65.457	0.957	0.3	47.8	O K
480 min Summer	65.489	0.989	0.3	49.4	O K
600 min Summer	65.508	1.008	0.4	50.4	O K
720 min Summer	65.519	1.019	0.4	50.9	O K
960 min Summer	65.524	1.024	0.4	51.2	O K
1440 min Summer	65.515	1.015	0.4	50.7	O K
2160 min Summer	65.493	0.993	0.4	49.7	O K
2880 min Summer	65.466	0.966	0.3	48.3	O K
4320 min Summer	65.402	0.902	0.3	45.1	O K
5760 min Summer	65.339	0.839	0.3	41.9	O K
7200 min Summer	65.280	0.780	0.3	39.0	O K
8640 min Summer	65.228	0.728	0.3	36.4	O K
10080 min Summer	65.179	0.679	0.3	34.0	O K
15 min Winter	64.958	0.458	0.2	22.9	O K
30 min Winter	65.100	0.600	0.3	30.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
15 min Summer	142.586	0.0	14.7	19	
30 min Summer	93.776	0.0	17.5	34	
60 min Summer	58.739	0.0	31.3	64	
120 min Summer	35.528	0.0	36.1	124	
180 min Summer	26.111	0.0	38.7	184	
240 min Summer	20.856	0.0	40.3	242	
360 min Summer	15.165	0.0	42.5	362	
480 min Summer	12.092	0.0	43.8	482	
600 min Summer	10.137	0.0	44.8	602	
720 min Summer	8.772	0.0	45.4	720	
960 min Summer	6.977	0.0	46.0	960	
1440 min Summer	5.045	0.0	45.7	1182	
2160 min Summer	3.642	0.0	73.5	1556	
2880 min Summer	2.887	0.0	75.4	1960	
4320 min Summer	2.078	0.0	74.3	2768	
5760 min Summer	1.644	0.0	91.1	3624	
7200 min Summer	1.370	0.0	94.9	4400	
8640 min Summer	1.180	0.0	98.0	5192	
10080 min Summer	1.040	0.0	100.4	5960	
15 min Winter	142.586	0.0	15.8	19	
30 min Winter	93.776	0.0	18.8	34	
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<u>Summary of Results for 100 year Return Period (+45%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
60 min Winter	65.246	0.746	0.3	37.3	O K
120 min Winter	65.389	0.889	0.3	44.5	O K
180 min Winter	65.467	0.967	0.3	48.3	O K
240 min Winter	65.515	1.015	0.4	50.8	O K
360 min Winter	65.579	1.079	0.4	53.9	O K
480 min Winter	65.618	1.118	0.4	55.9	O K
600 min Winter	65.642	1.142	0.4	57.1	O K
720 min Winter	65.657	1.157	0.4	57.9	O K
960 min Winter	65.670	1.170	0.4	58.5	O K
1440 min Winter	65.657	1.157	0.4	57.9	O K
2160 min Winter	65.626	1.126	0.4	56.3	O K
2880 min Winter	65.586	1.086	0.4	54.3	O K
4320 min Winter	65.494	0.994	0.4	49.7	O K
5760 min Winter	65.404	0.904	0.3	45.2	O K
7200 min Winter	65.321	0.821	0.3	41.1	O K
8640 min Winter	65.247	0.747	0.3	37.4	O K
10080 min Winter	65.182	0.682	0.3	34.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
60 min Winter	58.739	0.0	34.2	64	
120 min Winter	35.528	0.0	39.3	122	
180 min Winter	26.111	0.0	42.0	180	
240 min Winter	20.856	0.0	43.7	240	
360 min Winter	15.165	0.0	45.9	356	
480 min Winter	12.092	0.0	47.4	472	
600 min Winter	10.137	0.0	48.3	588	
720 min Winter	8.772	0.0	48.9	700	
960 min Winter	6.977	0.0	49.5	924	
1440 min Winter	5.045	0.0	49.2	1328	
2160 min Winter	3.642	0.0	81.0	1648	
2880 min Winter	2.887	0.0	82.6	2108	
4320 min Winter	2.078	0.0	80.9	3024	
5760 min Winter	1.644	0.0	102.0	3872	
7200 min Winter	1.370	0.0	106.2	4688	
8640 min Winter	1.180	0.0	109.7	5536	
10080 min Winter	1.040	0.0	112.2	6352	
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