

Basic Stormwater Detention Assessment

Job No: WGA201630

Title: St Ignatius Senior Building

Location: GEELONG(GREATER) ▾

Date: 19/07/2021

Designer: CS/CP/EC

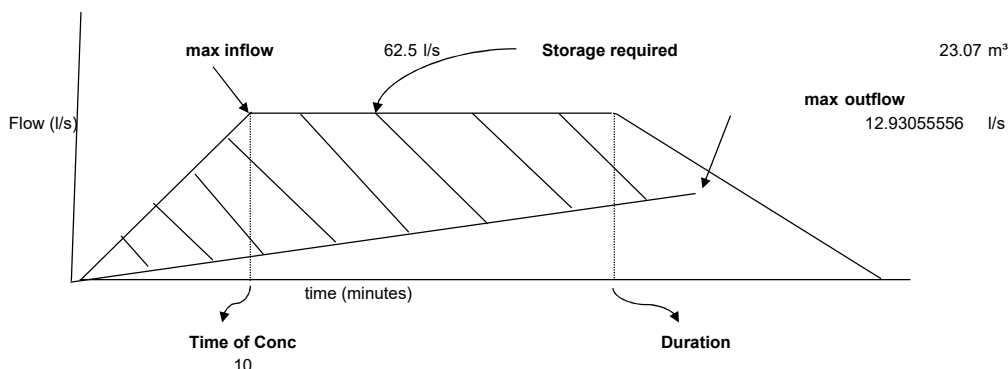
Checked: CP

Area	1,900	m ²
Coeff Permeability	1	
Time of conc.	10	min
ARI Storm	20 Year	▾
Max Outflow Qp (PSD)	12.93	l/sec

Q(flow) for 100 YR tank outlet		95 L/s	300dia
PSD		12.93 L/s	
ARI	5 YR		
Co		0.35	

N	Duration min	Intensity mm/hr	Inflow rate Ip l/sec	Inflow Vol Vi m3	Max Storage Smax m3
0	5.00	118	62.5	18.74	14.86
1	6.00	110	58.1	20.91	16.25
2	7.00	103	54.4	22.85	17.42
3	8.00	97	51.3	24.61	18.40
4	9.00	92	48.6	26.23	19.24
5	10.00	88	46.2	27.72	19.96
6	15.00	71	37.6	33.86	22.23
7	20.00	61	32.2	38.58	23.07
8	25.00	54	28.3	42.43	23.04
9	30.00	48	25.4	45.70	22.43
10	40.00	40	21.3	51.07	20.03
11	50.00	35	18.5	55.41	16.62
12	60.00	31	16.4	59.08	12.53
13	70.00	28	14.8	62.28	7.97
14	100.00	22	11.7	70.06	-7.53
15	130.00	19	9.8	76.17	-24.68
16	160.00	16	8.5	81.30	-42.83
17	190.00	14	7.5	85.78	-61.63
18	220.00	13	6.8	89.77	-80.91
19	250.00	12	6.2	93.41	-100.55
20	280.00	11	5.8	96.77	-120.46
21	310.00	10	5.4	99.89	-140.61
22	340.00	10	5.0	102.83	-160.96
23	370.00	9	4.8	105.60	-181.46
24	400.00	9	4.5	108.23	-202.11
25	430.00	8	4.3	110.73	-222.87
26	460.00	8	4.1	113.13	-243.75
27	490.00	7	3.9	115.43	-264.73
28	520.00	7	3.8	117.64	-285.79
29	550.00	7	3.6	119.78	-306.93
30	580.00	7	3.5	121.84	-328.14

25 kL OSD PROVIDED



LOCALITY:GEELONG(GREATER)	A	B	C	D	E	F	G
ARI 1 in 20	3.437054855	-0.653594171	-0.029286876	0.008084925	0.000236108	-0.000147163	-0.0000233

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