

Bellamy Roberts					Page 1
Clover House Western Lane Odiham RG29 1TU		Premier Coastal Properties Ltd Warblington Road, Emsworth Storage Tank 2			
Date 02/01/2024 10:55 File STORAGE AREA 2.SRCX		Designed by JCB Checked by MT			
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	4.314	0.614	2.6	24.6	O K
30 min Summer	4.494	0.794	2.9	31.8	O K
60 min Summer	4.645	0.945	3.2	37.8	O K
120 min Summer	4.726	1.026	3.4	41.0	O K
180 min Summer	4.742	1.042	3.4	41.7	O K
240 min Summer	4.735	1.035	3.4	41.4	O K
360 min Summer	4.697	0.997	3.3	39.9	O K
480 min Summer	4.651	0.951	3.2	38.0	O K
600 min Summer	4.602	0.902	3.1	36.1	O K
720 min Summer	4.555	0.855	3.1	34.2	O K
960 min Summer	4.470	0.770	2.9	30.8	O K
1440 min Summer	4.333	0.633	2.6	25.3	O K
2160 min Summer	4.188	0.488	2.3	19.5	O K
2880 min Summer	4.089	0.389	2.0	15.6	O K
4320 min Summer	3.967	0.267	1.7	10.7	O K
5760 min Summer	3.897	0.197	1.4	7.9	O K
7200 min Summer	3.854	0.154	1.2	6.2	O K
8640 min Summer	3.826	0.126	1.1	5.0	O K
10080 min Summer	3.805	0.105	1.0	4.2	O K
15 min Winter	4.390	0.690	2.7	27.6	O K
30 min Winter	4.596	0.896	3.1	35.8	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
15 min Summer	130.577	0.0	26.1	18	
30 min Summer	87.772	0.0	35.1	32	
60 min Summer	56.310	0.0	45.2	60	
120 min Summer	34.877	0.0	55.9	100	
180 min Summer	25.960	0.0	62.5	132	
240 min Summer	20.900	0.0	67.1	166	
360 min Summer	15.369	0.0	74.0	236	
480 min Summer	12.349	0.0	79.2	304	
600 min Summer	10.413	0.0	83.5	372	
720 min Summer	9.053	0.0	87.1	438	
960 min Summer	7.253	0.0	93.1	568	
1440 min Summer	5.297	0.0	102.0	822	
2160 min Summer	3.860	0.0	111.5	1188	
2880 min Summer	3.079	0.0	118.6	1556	
4320 min Summer	2.236	0.0	129.1	2252	
5760 min Summer	1.779	0.0	137.1	2992	
7200 min Summer	1.489	0.0	143.4	3680	
8640 min Summer	1.289	0.0	149.0	4408	
10080 min Summer	1.141	0.0	153.8	5144	
15 min Winter	130.577	0.0	29.3	18	
30 min Winter	87.772	0.0	39.4	32	
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Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
60 min Winter	4.773	1.073	3.4	42.9	O K
120 min Winter	4.869	1.169	3.6	46.8	O K
180 min Winter	4.880	1.180	3.6	47.2	O K
240 min Winter	4.863	1.163	3.6	46.5	O K
360 min Winter	4.801	1.101	3.5	44.1	O K
480 min Winter	4.729	1.029	3.4	41.1	O K
600 min Winter	4.656	0.956	3.2	38.2	O K
720 min Winter	4.587	0.887	3.1	35.5	O K
960 min Winter	4.466	0.766	2.9	30.6	O K
1440 min Winter	4.282	0.582	2.5	23.3	O K
2160 min Winter	4.106	0.406	2.1	16.3	O K
2880 min Winter	4.000	0.300	1.8	12.0	O K
4320 min Winter	3.885	0.185	1.4	7.4	O K
5760 min Winter	3.829	0.129	1.1	5.2	O K
7200 min Winter	3.798	0.098	0.9	3.9	O K
8640 min Winter	3.779	0.079	0.8	3.2	O K
10080 min Winter	3.766	0.066	0.7	2.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
60 min Winter	56.310	0.0	50.6	60	
120 min Winter	34.877	0.0	62.7	112	
180 min Winter	25.960	0.0	70.0	140	
240 min Winter	20.900	0.0	75.1	180	
360 min Winter	15.369	0.0	82.8	254	
480 min Winter	12.349	0.0	88.8	328	
600 min Winter	10.413	0.0	93.6	398	
720 min Winter	9.053	0.0	97.6	468	
960 min Winter	7.253	0.0	104.3	600	
1440 min Winter	5.297	0.0	114.2	854	
2160 min Winter	3.860	0.0	124.9	1228	
2880 min Winter	3.079	0.0	132.8	1584	
4320 min Winter	2.236	0.0	144.6	2292	
5760 min Winter	1.779	0.0	153.5	3000	
7200 min Winter	1.489	0.0	160.6	3680	
8640 min Winter	1.289	0.0	166.9	4408	
10080 min Winter	1.141	0.0	172.3	5144	
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Model Details Storage is Online Cover Level (m) 5.500 Tank or Pond Structure Invert Level (m) 3.700 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>40.0</td><td>1.200</td><td>40.0</td><td>1.201</td><td>0.0</td></tr></tbody></table> Orifice Outflow Control Diameter (m) 0.040 Discharge Coefficient 0.600 Invert Level (m) 3.700			Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	40.0	1.200	40.0	1.201	0.0
Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)									
0.000	40.0	1.200	40.0	1.201	0.0									
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