

Bellamy Roberts				Page 1	
Clover House Western Lane Odiham RG29 1TU		Premier Coastal Properties Ltd Warblington Road, Emsworth Storage Tank 1 & 3			
Date 02/01/2024 10:44 File STORAGE AREA 1.SRCX		Designed by JCB Checked by MT			
Innovyze		Source Control 2020.1.3			
Summary of Results for 1 year Return Period					
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
15 min Summer	7.336	0.136	1.1	4.1	O K
30 min Summer	7.364	0.164	1.3	4.9	O K
60 min Summer	7.386	0.186	1.4	5.6	O K
120 min Summer	7.397	0.197	1.4	5.9	O K
180 min Summer	7.394	0.194	1.4	5.8	O K
240 min Summer	7.388	0.188	1.4	5.6	O K
360 min Summer	7.371	0.171	1.3	5.1	O K
480 min Summer	7.355	0.155	1.2	4.7	O K
600 min Summer	7.341	0.141	1.2	4.2	O K
720 min Summer	7.330	0.130	1.1	3.9	O K
960 min Summer	7.311	0.111	1.0	3.3	O K
1440 min Summer	7.286	0.086	0.9	2.6	O K
2160 min Summer	7.266	0.066	0.7	2.0	O K
2880 min Summer	7.256	0.056	0.6	1.7	O K
4320 min Summer	7.247	0.047	0.5	1.4	O K
5760 min Summer	7.241	0.041	0.4	1.2	O K
7200 min Summer	7.237	0.037	0.3	1.1	O K
8640 min Summer	7.235	0.035	0.3	1.0	O K
10080 min Summer	7.233	0.033	0.3	1.0	O K
15 min Winter	7.353	0.153	1.2	4.6	O K
30 min Winter	7.386	0.186	1.4	5.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
15 min Summer	28.417	0.0	4.7	17	
30 min Summer	18.860	0.0	6.2	29	
60 min Summer	12.227	0.0	8.1	46	
120 min Summer	7.783	0.0	10.3	80	
180 min Summer	5.952	0.0	11.8	114	
240 min Summer	4.917	0.0	13.0	148	
360 min Summer	3.727	0.0	14.7	212	
480 min Summer	3.055	0.0	16.1	276	
600 min Summer	2.619	0.0	17.3	338	
720 min Summer	2.309	0.0	18.3	398	
960 min Summer	1.894	0.0	20.0	520	
1440 min Summer	1.433	0.0	22.7	762	
2160 min Summer	1.083	0.0	25.7	1108	
2880 min Summer	0.888	0.0	28.1	1468	
4320 min Summer	0.672	0.0	31.9	2200	
5760 min Summer	0.552	0.0	34.9	2920	
7200 min Summer	0.474	0.0	37.5	3672	
8640 min Summer	0.417	0.0	39.6	4320	
10080 min Summer	0.374	0.0	41.4	5080	
15 min Winter	28.417	0.0	5.2	17	
30 min Winter	18.860	0.0	6.9	30	
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Clover House Western Lane Odiham RG29 1TU		Premier Coastal Properties Ltd Warblington Road, Emsworth Storage Tank 1			
Date 02/01/2024 10:44 File STORAGE AREA 1.SRCX		Designed by JCB Checked by MT			
Innovyze		Source Control 2020.1.3			
<u>Summary of Results for 1 year Return Period</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
60 min Winter	7.408	0.208	1.4	6.2	O K
120 min Winter	7.414	0.214	1.5	6.4	O K
180 min Winter	7.406	0.206	1.4	6.2	O K
240 min Winter	7.393	0.193	1.4	5.8	O K
360 min Winter	7.367	0.167	1.3	5.0	O K
480 min Winter	7.344	0.144	1.2	4.3	O K
600 min Winter	7.326	0.126	1.1	3.8	O K
720 min Winter	7.312	0.112	1.0	3.3	O K
960 min Winter	7.290	0.090	0.9	2.7	O K
1440 min Winter	7.266	0.066	0.7	2.0	O K
2160 min Winter	7.252	0.052	0.6	1.5	O K
2880 min Winter	7.245	0.045	0.5	1.4	O K
4320 min Winter	7.238	0.038	0.4	1.1	O K
5760 min Winter	7.234	0.034	0.3	1.0	O K
7200 min Winter	7.231	0.031	0.2	0.9	O K
8640 min Winter	7.228	0.028	0.2	0.8	O K
10080 min Winter	7.226	0.026	0.2	0.8	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
60 min Winter	12.227	0.0	9.0	48	
120 min Winter	7.783	0.0	11.5	86	
180 min Winter	5.952	0.0	13.2	122	
240 min Winter	4.917	0.0	14.5	158	
360 min Winter	3.727	0.0	16.5	224	
480 min Winter	3.055	0.0	18.1	288	
600 min Winter	2.619	0.0	19.3	350	
720 min Winter	2.309	0.0	20.5	412	
960 min Winter	1.894	0.0	22.4	530	
1440 min Winter	1.433	0.0	25.4	764	
2160 min Winter	1.083	0.0	28.8	1104	
2880 min Winter	0.888	0.0	31.5	1468	
4320 min Winter	0.672	0.0	35.7	2208	
5760 min Winter	0.552	0.0	39.1	2936	
7200 min Winter	0.474	0.0	42.0	3568	
8640 min Winter	0.417	0.0	44.3	4400	
10080 min Winter	0.374	0.0	46.4	5088	
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Clover House	Premier Coastal Properties Ltd	
Western Lane	Warblington Road, Emsworth	
Odiham RG29 1TU	Storage Tank 1	
Date 02/01/2024 10:44	Designed by JCB	
File STORAGE AREA 1.SRCX	Checked by MT	
Innovyze	Source Control 2020.1.3	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	1	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.200	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.088

Time (mins)	Area
From:	To: (ha)
0	4 0.088

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Clover House Western Lane Odiham RG29 1TU	Premier Coastal Properties Ltd Warblington Road, Emsworth Storage Tank 1													
Date 02/01/2024 10:44 File STORAGE AREA 1.SRCX	Designed by JCB Checked by MT													
Innovyze		Source Control 2020.1.3												
Model Details Storage is Online Cover Level (m) 9.000 Tank or Pond Structure Invert Level (m) 7.200 <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>30.0</td><td>1.200</td><td>30.0</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) 7.200			Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	30.0	1.200	30.0	1.201	0.0
Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)									
0.000	30.0	1.200	30.0	1.201	0.0									
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