



This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.

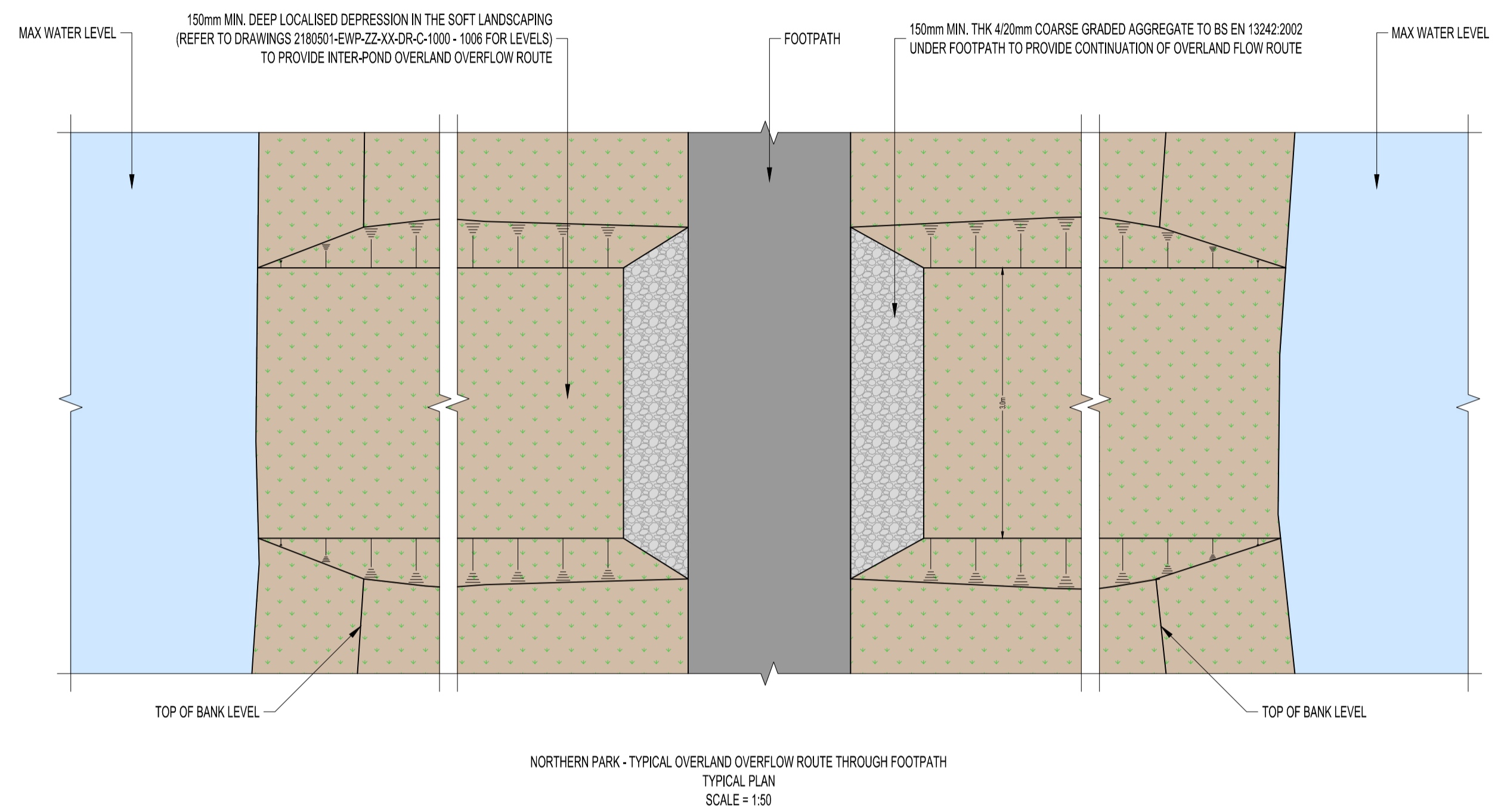
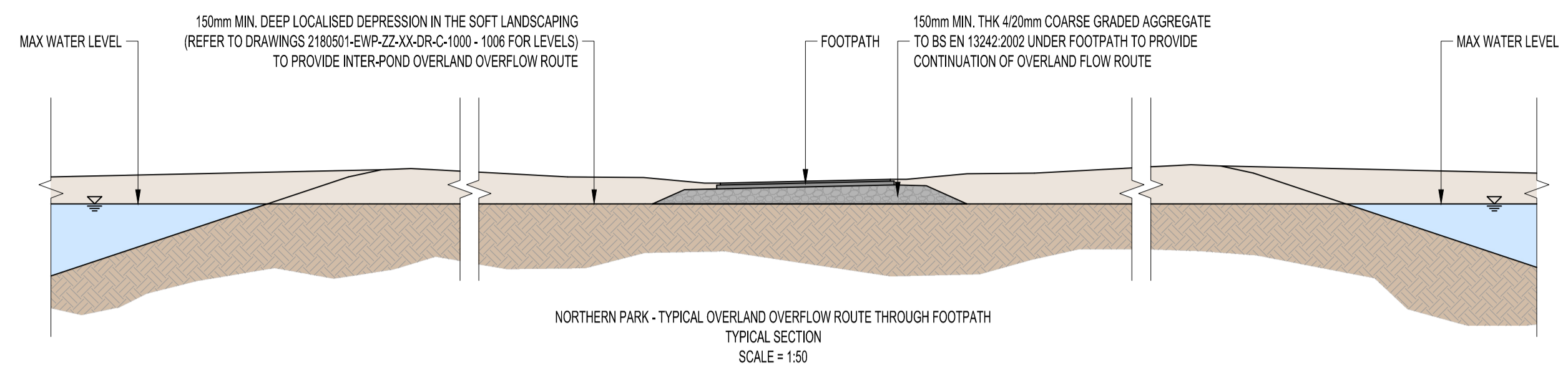
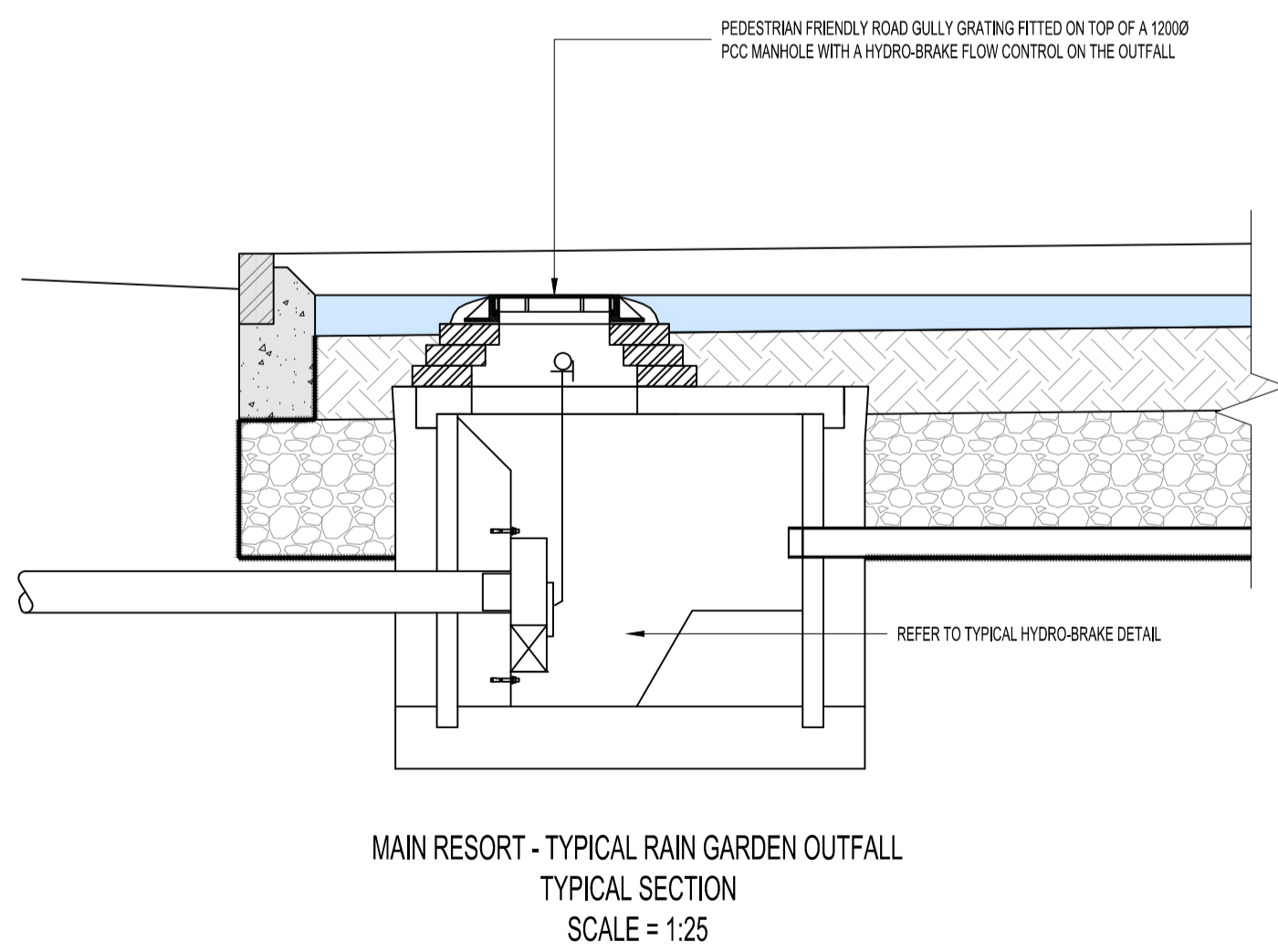
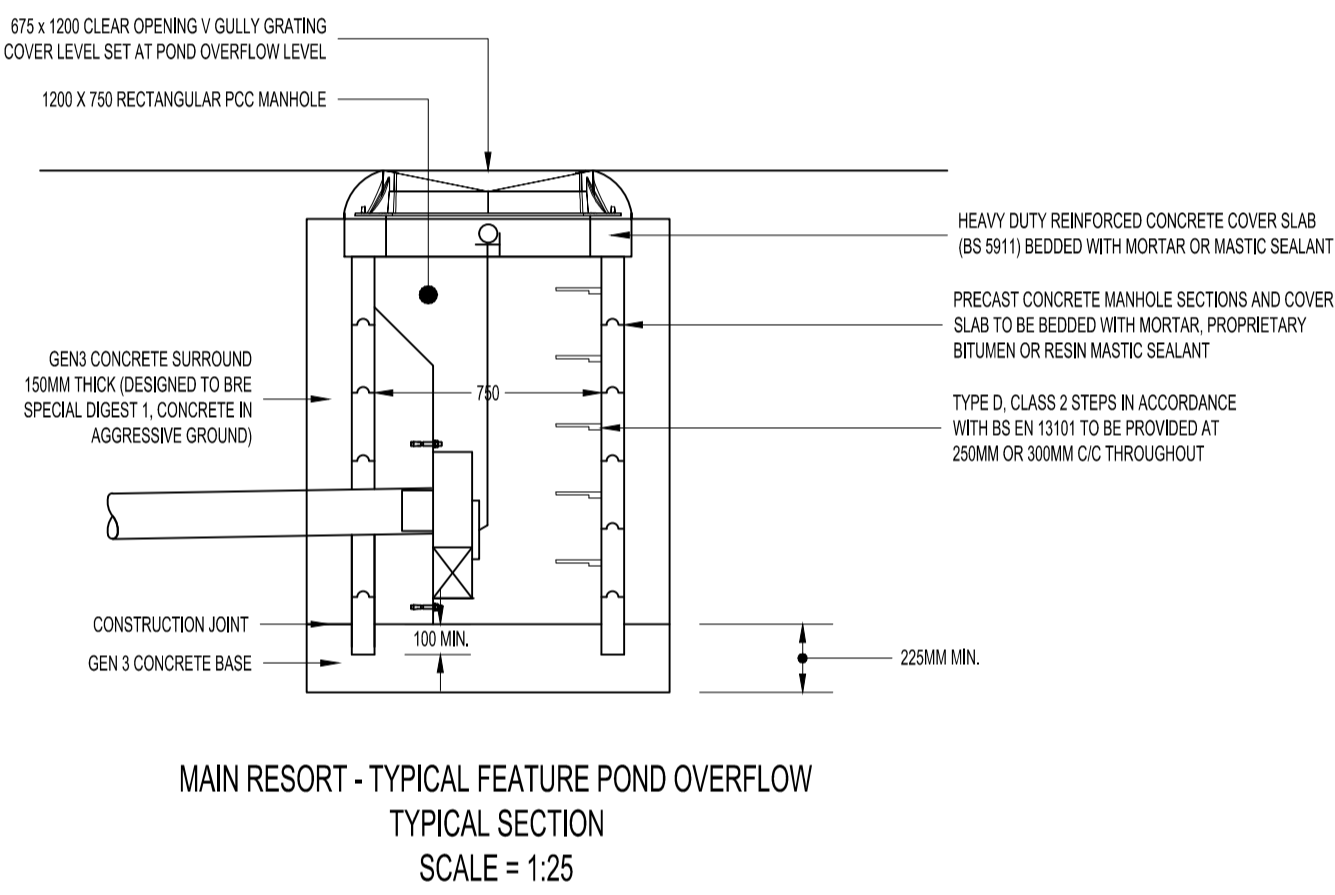
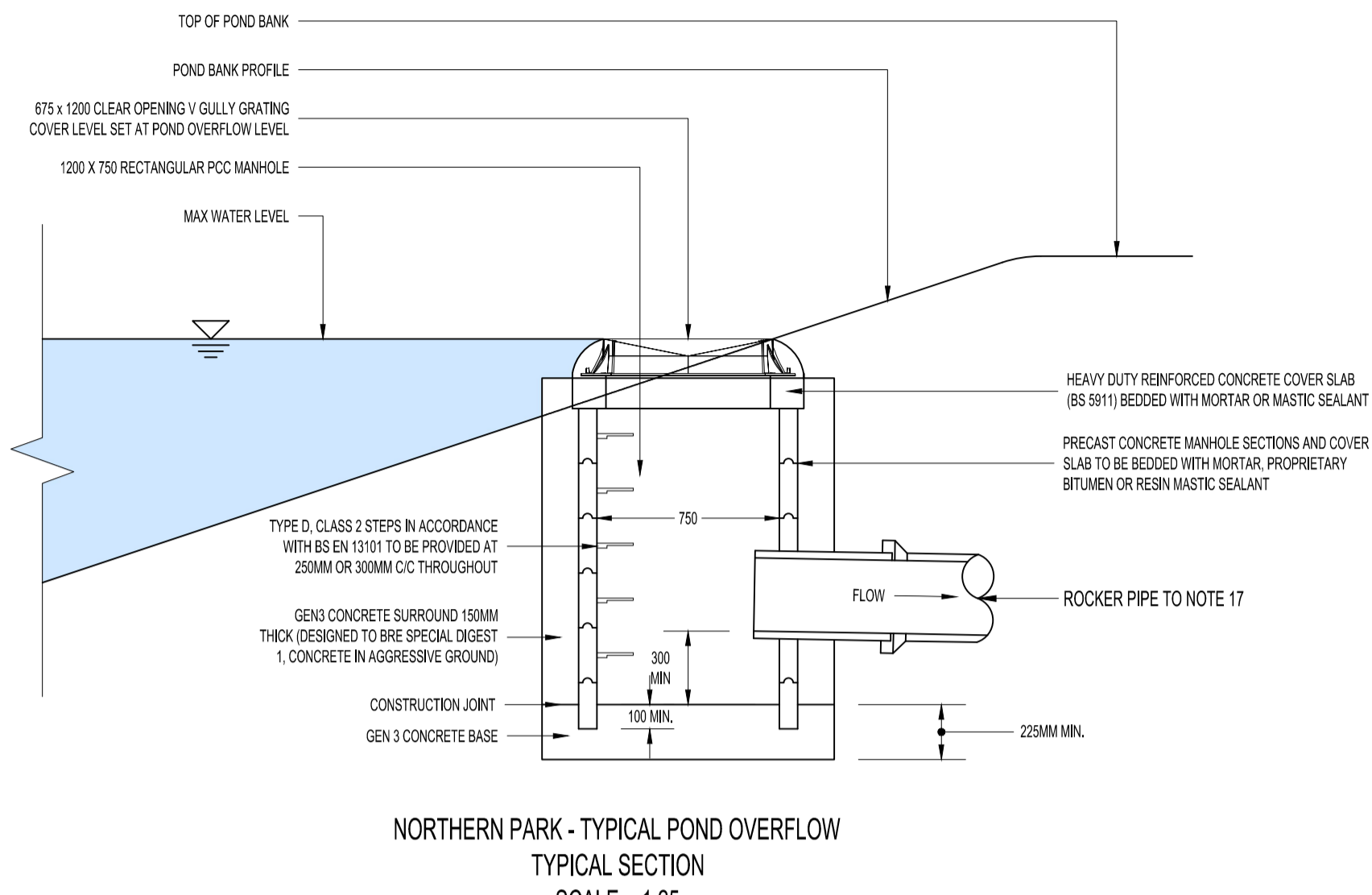
Do not scale from this drawing.

Notes:

- All dimensions are in millimeters unless stated otherwise.
- This drawing should not be scaled.
- This drawing should be read in conjunction with the below ground drainage drawing(s) and manhole schedule(s).
- This drawing should be read in conjunction with all relevant Architects, Engineer's and Services Engineer's specifications and drawings.
- All drainage shall be constructed in accordance with the relevant provisions of current Building Regulations, BS EN 752, BS EN 12056 and Sewers for Adoption as appropriate.
- Pre-cast concrete products shall comply with the relevant provisions of BS 5911: Part 2, 200 & 230.
- Details surrounding proprietary products and systems are indicative only, contractor to ensure all systems are installed strictly in accordance with the manufacturers details.
- All external manhole covers and frames located within vehicular areas are to be load class D400 and be 150mm deep unless stated otherwise.
- All external manhole covers and frames located within pedestrian areas are to be load class B125 unless stated otherwise.
- All external manhole covers and frames are to be installed square to the building, paving or highway channel lines.
- All external manhole covers and frames shall comply with the relevant provisions of BS EN 124 and BS 7903 and shall be non-ventilated (single sealed) with closed keyways unless stated otherwise.
- All internal manhole covers and frames are to be double sealed and recessed unless stated otherwise.
- All manhole covers located on grease traps are to be double sealed.
- Manhole cover frames shall be bedded on a graded class 1 (3:1) sand/cement mortar to clause 2402 of SHM - mortar designation (I), and between 2 and 4 courses of engineering brickwork class 'b' to BS EN 771-1:2011 or precast concrete adjusting units - corbelling to be no more than 30mm per course.
- Manholes < 3m deep shall be installed with type d class 1 steps, complying with the requirements of BS EN 13101:2002.
- Manholes > 3m deep shall be installed with an appropriate fixed ladder complying with the requirements of BS EN 14386:2004.
- Where rigid pipes are used, a flexible joint shall be provided as close as is feasible to the outside face of any structure into which a pipe is built, within 150mm for pipe diameters less than 300mm. The design of the joints shall be compatible with any subsequent movement. Rocker pipe lengths shall be in accordance with Table 1, unless stated otherwise.

Nominal Diameter (mm)	Effective Length (m)
150 - 600	0.6
600 - 750	1.0
over 750	1.25

- In situ concrete base and surround shall be class 'GEN3' in accordance with 'BRE Special Digest 1 - Concrete in Aggressive Ground' and the requirement of 'Sewers for Adoption'.



NOT FOR CONSTRUCTION

P1	S2	17.06.22	PDa	HHu	Issued for planning condition discharge
rev	sc	date	by	chk	description

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Project  
Proposed Great Wolf Lodge,  
Chesterton, Bicester,  
Oxfordshire

Drawing title  
Typical Below Ground Drainage  
Details

Scale (s)	Date	Drawn				
AS NOTED	June 2022	PDa				
Drawing status	Status	Revision				
Preliminary	S2	P1				
Project no.	Originator	Zone	Level	Type	Role	dlg no.
2180501-EWP-ZZ-XX-DT-C-3008						

F Northern Park – Micro Drainage Source Control Model  
Details and Cascade Simulation Results

241 The Broadway  
London  
SW19 1SD



Date 17/06/2022 15:49

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Source Control 2020.1.3

Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	85.547	0.008	3.2	18.3	O K
30 min Summer	85.549	0.010	4.2	21.5	O K
60 min Summer	85.550	0.011	4.9	23.5	O K
120 min Summer	85.551	0.012	6.1	27.4	O K
180 min Summer	85.552	0.013	6.5	28.3	O K
240 min Summer	85.552	0.013	6.5	28.1	O K
360 min Summer	85.551	0.012	6.1	26.6	O K
480 min Summer	85.550	0.011	5.3	25.1	O K
600 min Summer	85.550	0.011	4.9	23.7	O K
720 min Summer	85.549	0.010	4.5	22.4	O K
960 min Summer	85.548	0.009	3.8	20.4	O K
1440 min Summer	85.547	0.008	3.2	17.6	O K
2160 min Summer	85.546	0.007	2.2	15.2	O K
2880 min Summer	85.545	0.006	1.9	13.5	O K
4320 min Summer	85.544	0.005	1.4	12.0	O K
5760 min Summer	85.544	0.005	1.2	11.0	O K
7200 min Summer	85.544	0.005	1.2	10.0	O K
8640 min Summer	85.543	0.004	0.9	9.7	O K
10080 min Summer	85.543	0.004	0.9	8.9	O K
15 min Winter	85.547	0.008	3.2	18.3	O K
30 min Winter	85.549	0.010	4.2	21.7	O K
60 min Winter	85.550	0.011	4.9	23.5	O K
120 min Winter	85.551	0.012	6.1	26.6	O K
180 min Winter	85.551	0.012	6.1	26.8	O K
240 min Winter	85.551	0.012	5.7	26.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	35.940	0.0	17.6	17
30 min Summer	22.822	0.0	22.9	31
60 min Summer	14.078	0.0	28.8	46
120 min Summer	9.627	0.0	40.2	80
180 min Summer	7.475	0.0	47.1	112
240 min Summer	6.162	0.0	52.0	144
360 min Summer	4.600	0.0	58.5	208
480 min Summer	3.694	0.0	62.8	272
600 min Summer	3.102	0.0	66.0	332
720 min Summer	2.682	0.0	68.6	392
960 min Summer	2.123	0.0	72.5	518
1440 min Summer	1.527	0.0	78.4	752
2160 min Summer	1.107	0.0	85.5	1128
2880 min Summer	0.888	0.0	91.6	1476
4320 min Summer	0.664	0.0	102.9	2248
5760 min Summer	0.548	0.0	113.5	2992
7200 min Summer	0.477	0.0	123.7	3640
8640 min Summer	0.429	0.0	133.7	4416
10080 min Summer	0.394	0.0	143.5	5016
15 min Winter	35.940	0.0	17.6	17
30 min Winter	22.822	0.0	22.9	30
60 min Winter	14.078	0.0	28.8	48
120 min Winter	9.627	0.0	40.2	84
180 min Winter	7.475	0.0	47.1	120
240 min Winter	6.162	0.0	52.0	154

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	85.550	0.011	5.3	24.2	O K
480 min Winter	85.549	0.010	4.5	22.3	O K
600 min Winter	85.549	0.010	4.2	20.9	O K
720 min Winter	85.548	0.009	3.5	19.5	O K
960 min Winter	85.547	0.008	2.8	17.5	O K
1440 min Winter	85.546	0.007	2.2	14.6	O K
2160 min Winter	85.545	0.006	1.7	12.2	O K
2880 min Winter	85.544	0.005	1.4	11.0	O K
4320 min Winter	85.543	0.004	0.9	9.9	O K
5760 min Winter	85.543	0.004	0.9	8.8	O K
7200 min Winter	85.543	0.004	0.7	7.8	O K
8640 min Winter	85.543	0.004	0.7	7.7	O K
10080 min Winter	85.543	0.004	0.7	7.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	4.600	0.0	58.5	216
480 min Winter	3.694	0.0	62.8	280
600 min Winter	3.102	0.0	66.0	346
720 min Winter	2.682	0.0	68.6	412
960 min Winter	2.123	0.0	72.5	540
1440 min Winter	1.527	0.0	78.4	768
2160 min Winter	1.107	0.0	85.5	1124
2880 min Winter	0.888	0.0	91.6	1432
4320 min Winter	0.664	0.0	102.9	2336
5760 min Winter	0.548	0.0	113.5	2904
7200 min Winter	0.477	0.0	123.7	3712
8640 min Winter	0.429	0.0	133.7	4376
10080 min Winter	0.394	0.0	143.5	5400

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	85.557	0.018	11.6	40.4	O K
30 min Summer	85.560	0.021	14.7	46.8	O K
60 min Summer	85.562	0.023	17.0	50.8	O K
120 min Summer	85.563	0.024	17.5	51.6	O K
180 min Summer	85.562	0.023	16.4	49.9	O K
240 min Summer	85.561	0.022	15.3	47.6	O K
360 min Summer	85.559	0.020	13.1	43.2	O K
480 min Summer	85.557	0.018	11.6	39.6	O K
600 min Summer	85.556	0.017	10.1	36.6	O K
720 min Summer	85.555	0.016	9.2	34.1	O K
960 min Summer	85.553	0.014	7.4	30.4	O K
1440 min Summer	85.551	0.012	5.7	25.4	O K
2160 min Summer	85.549	0.010	4.2	21.2	O K
2880 min Summer	85.548	0.009	3.5	18.7	O K
4320 min Summer	85.546	0.007	2.5	15.6	O K
5760 min Summer	85.545	0.006	1.9	14.1	O K
7200 min Summer	85.545	0.006	1.7	13.0	O K
8640 min Summer	85.545	0.006	1.7	12.1	O K
10080 min Summer	85.544	0.005	1.4	11.0	O K
15 min Winter	85.557	0.018	11.6	40.6	O K
30 min Winter	85.560	0.021	14.7	46.9	O K
60 min Winter	85.562	0.023	16.4	50.2	O K
120 min Winter	85.561	0.022	15.8	49.2	O K
180 min Winter	85.560	0.021	14.7	46.2	O K
240 min Winter	85.559	0.020	13.1	43.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	83.255	0.0	43.6	17
30 min Summer	53.786	0.0	56.9	26
60 min Summer	33.433	0.0	71.4	42
120 min Summer	20.390	0.0	87.5	76
180 min Summer	15.113	0.0	97.5	108
240 min Summer	12.136	0.0	104.6	140
360 min Summer	8.798	0.0	113.9	202
480 min Summer	6.947	0.0	120.1	266
600 min Summer	5.763	0.0	124.6	326
720 min Summer	4.936	0.0	128.1	386
960 min Summer	3.852	0.0	133.4	510
1440 min Summer	2.710	0.0	140.9	750
2160 min Summer	1.913	0.0	149.3	1120
2880 min Summer	1.502	0.0	156.4	1468
4320 min Summer	1.084	0.0	169.5	2204
5760 min Summer	0.870	0.0	181.5	2944
7200 min Summer	0.740	0.0	193.1	3680
8640 min Summer	0.652	0.0	204.4	4424
10080 min Summer	0.589	0.0	215.5	4976
15 min Winter	83.255	0.0	43.6	16
30 min Winter	53.786	0.0	56.9	28
60 min Winter	33.433	0.0	71.4	46
120 min Winter	20.390	0.0	87.5	80
180 min Winter	15.113	0.0	97.5	114
240 min Winter	12.136	0.0	104.6	148

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Summary of Results for 30 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	85.556	0.017	10.6	38.3	O K
480 min Winter	85.555	0.016	9.2	34.3	O K
600 min Winter	85.553	0.014	7.8	31.3	O K
720 min Winter	85.552	0.013	6.9	28.8	O K
960 min Winter	85.551	0.012	5.7	25.3	O K
1440 min Winter	85.549	0.010	4.2	20.9	O K
2160 min Winter	85.547	0.008	2.8	17.0	O K
2880 min Winter	85.546	0.007	2.2	14.9	O K
4320 min Winter	85.545	0.006	1.7	12.1	O K
5760 min Winter	85.544	0.005	1.4	11.0	O K
7200 min Winter	85.544	0.005	1.2	10.0	O K
8640 min Winter	85.544	0.005	1.2	9.9	O K
10080 min Winter	85.543	0.004	0.9	8.8	O K

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	8.798	0.0	113.9	212
480 min Winter	6.947	0.0	120.1	274
600 min Winter	5.763	0.0	124.6	338
720 min Winter	4.936	0.0	128.1	398
960 min Winter	3.852	0.0	133.4	514
1440 min Winter	2.710	0.0	140.9	762
2160 min Winter	1.913	0.0	149.3	1144
2880 min Winter	1.502	0.0	156.4	1528
4320 min Winter	1.084	0.0	169.5	2084
5760 min Winter	0.870	0.0	181.5	2880
7200 min Winter	0.740	0.0	193.1	3656
8640 min Winter	0.652	0.0	204.4	4512
10080 min Winter	0.589	0.0	215.5	5024

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	85.562	0.023	17.0	51.0	O K
30 min Summer	85.566	0.027	21.1	59.1	O K
60 min Summer	85.568	0.029	24.3	64.0	O K
120 min Summer	85.568	0.029	23.6	63.3	O K
180 min Summer	85.567	0.028	22.4	60.5	O K
240 min Summer	85.565	0.026	20.5	57.3	O K
360 min Summer	85.562	0.023	17.0	51.5	O K
480 min Summer	85.560	0.021	14.7	46.9	O K
600 min Summer	85.559	0.020	13.1	43.0	O K
720 min Summer	85.557	0.018	11.6	40.0	O K
960 min Summer	85.555	0.016	9.6	35.4	O K
1440 min Summer	85.552	0.013	6.9	29.6	O K
2160 min Summer	85.550	0.011	5.3	24.3	O K
2880 min Summer	85.549	0.010	4.2	21.1	O K
4320 min Summer	85.547	0.008	3.2	17.6	O K
5760 min Summer	85.546	0.007	2.5	15.5	O K
7200 min Summer	85.546	0.007	2.2	14.3	O K
8640 min Summer	85.545	0.006	1.9	13.2	O K
10080 min Summer	85.545	0.006	1.7	12.2	O K
15 min Winter	85.562	0.023	17.0	51.2	O K
30 min Winter	85.566	0.027	21.1	59.2	O K
60 min Winter	85.568	0.029	23.6	62.9	O K
120 min Winter	85.566	0.027	21.7	59.9	O K
180 min Winter	85.564	0.025	19.3	55.7	O K
240 min Winter	85.563	0.024	17.5	51.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	106.718	0.0	56.5	16
30 min Summer	69.623	0.0	74.3	25
60 min Summer	43.443	0.0	93.4	42
120 min Summer	26.110	0.0	112.7	74
180 min Summer	19.234	0.0	124.7	108
240 min Summer	15.397	0.0	133.3	138
360 min Summer	11.131	0.0	144.7	202
480 min Summer	8.775	0.0	152.2	264
600 min Summer	7.269	0.0	157.7	324
720 min Summer	6.220	0.0	162.0	386
960 min Summer	4.847	0.0	168.4	508
1440 min Summer	3.392	0.0	176.9	752
2160 min Summer	2.370	0.0	185.5	1104
2880 min Summer	1.844	0.0	192.5	1472
4320 min Summer	1.310	0.0	205.4	2188
5760 min Summer	1.038	0.0	217.0	2928
7200 min Summer	0.873	0.0	228.2	3680
8640 min Summer	0.762	0.0	239.2	4416
10080 min Summer	0.683	0.0	250.1	5096
15 min Winter	106.718	0.0	56.5	16
30 min Winter	69.623	0.0	74.3	26
60 min Winter	43.443	0.0	93.4	44
120 min Winter	26.110	0.0	112.7	80
180 min Winter	19.234	0.0	124.7	114
240 min Winter	15.397	0.0	133.3	146



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Summary of Results for 100 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	85.560	0.021	14.2	45.1	O K
480 min Winter	85.557	0.018	11.6	40.2	O K
600 min Winter	85.556	0.017	10.1	36.5	O K
720 min Winter	85.554	0.015	8.7	33.6	O K
960 min Winter	85.552	0.013	6.9	29.2	O K
1440 min Winter	85.550	0.011	4.9	24.0	O K
2160 min Winter	85.548	0.009	3.5	19.6	O K
2880 min Winter	85.547	0.008	2.8	16.6	O K
4320 min Winter	85.545	0.006	1.9	14.0	O K
5760 min Winter	85.545	0.006	1.7	12.1	O K
7200 min Winter	85.544	0.005	1.4	11.0	O K
8640 min Winter	85.544	0.005	1.2	10.0	O K
10080 min Winter	85.544	0.005	1.2	9.9	O K

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	11.131	0.0	144.7	208
480 min Winter	8.775	0.0	152.2	274
600 min Winter	7.269	0.0	157.7	332
720 min Winter	6.220	0.0	162.0	398
960 min Winter	4.847	0.0	168.4	522
1440 min Winter	3.392	0.0	176.9	778
2160 min Winter	2.370	0.0	185.5	1148
2880 min Winter	1.844	0.0	192.5	1468
4320 min Winter	1.310	0.0	205.4	2292
5760 min Winter	1.038	0.0	217.0	2880
7200 min Winter	0.873	0.0	228.2	3632
8640 min Winter	0.762	0.0	239.2	4408
10080 min Winter	0.683	0.0	250.1	4912

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	85.571	0.032	27.6	69.8	O K
30 min Summer	85.576	0.037	34.6	80.3	O K
60 min Summer	85.578	0.039	38.2	85.9	O K
120 min Summer	85.577	0.038	36.7	83.9	O K
180 min Summer	85.575	0.036	33.1	79.0	O K
240 min Summer	85.573	0.034	30.3	74.0	O K
360 min Summer	85.569	0.030	25.6	65.9	O K
480 min Summer	85.566	0.027	21.7	59.5	O K
600 min Summer	85.564	0.025	18.7	54.5	O K
720 min Summer	85.562	0.023	17.0	50.6	O K
960 min Summer	85.559	0.020	13.7	44.5	O K
1440 min Summer	85.556	0.017	10.1	36.8	O K
2160 min Summer	85.553	0.014	7.4	30.1	O K
2880 min Summer	85.551	0.012	5.7	26.3	O K
4320 min Summer	85.549	0.010	4.2	21.6	O K
5760 min Summer	85.548	0.009	3.5	18.8	O K
7200 min Summer	85.547	0.008	2.8	17.2	O K
8640 min Summer	85.546	0.007	2.5	15.6	O K
10080 min Summer	85.546	0.007	2.2	15.0	O K
15 min Winter	85.571	0.032	27.6	70.0	O K
30 min Winter	85.576	0.037	34.6	80.3	O K
60 min Winter	85.577	0.038	36.7	83.9	O K
120 min Winter	85.575	0.036	33.1	78.3	O K
180 min Winter	85.572	0.033	28.9	71.9	O K
240 min Winter	85.569	0.030	25.6	66.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	79.9	16
30 min Summer	97.472	0.0	105.0	24
60 min Summer	60.820	0.0	131.6	40
120 min Summer	36.554	0.0	158.6	74
180 min Summer	26.928	0.0	175.5	106
240 min Summer	21.556	0.0	187.5	138
360 min Summer	15.584	0.0	203.5	200
480 min Summer	12.284	0.0	214.0	260
600 min Summer	10.177	0.0	221.7	322
720 min Summer	8.708	0.0	227.7	384
960 min Summer	6.785	0.0	236.6	504
1440 min Summer	4.749	0.0	248.5	750
2160 min Summer	3.318	0.0	260.6	1108
2880 min Summer	2.582	0.0	270.4	1476
4320 min Summer	1.834	0.0	288.4	2204
5760 min Summer	1.453	0.0	304.7	2928
7200 min Summer	1.222	0.0	320.4	3672
8640 min Summer	1.067	0.0	335.7	4408
10080 min Summer	0.956	0.0	351.0	5144
15 min Winter	149.405	0.0	79.9	16
30 min Winter	97.472	0.0	105.0	25
60 min Winter	60.820	0.0	131.6	44
120 min Winter	36.554	0.0	158.6	78
180 min Winter	26.928	0.0	175.5	112
240 min Winter	21.556	0.0	187.5	144

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	85.565	0.026	20.5	57.2	O K
480 min Winter	85.562	0.023	17.0	50.6	O K
600 min Winter	85.560	0.021	14.2	45.7	O K
720 min Winter	85.558	0.019	12.6	41.8	O K
960 min Winter	85.556	0.017	10.1	36.3	O K
1440 min Winter	85.552	0.013	6.9	29.7	O K
2160 min Winter	85.550	0.011	4.9	24.0	O K
2880 min Winter	85.548	0.009	3.8	20.8	O K
4320 min Winter	85.547	0.008	2.8	16.5	O K
5760 min Winter	85.546	0.007	2.2	14.5	O K
7200 min Winter	85.545	0.006	1.9	13.3	O K
8640 min Winter	85.545	0.006	1.7	12.2	O K
10080 min Winter	85.545	0.006	1.7	12.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	15.584	0.0	203.5	206
480 min Winter	12.284	0.0	214.0	270
600 min Winter	10.177	0.0	221.7	332
720 min Winter	8.708	0.0	227.7	390
960 min Winter	6.785	0.0	236.6	518
1440 min Winter	4.749	0.0	248.5	768
2160 min Winter	3.318	0.0	260.6	1144
2880 min Winter	2.582	0.0	270.4	1528
4320 min Winter	1.834	0.0	288.4	2224
5760 min Winter	1.453	0.0	304.7	2944
7200 min Winter	1.222	0.0	320.4	3544
8640 min Winter	1.067	0.0	335.7	4336
10080 min Winter	0.956	0.0	351.0	5304

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.220

**Time (mins) Area**  
**From: To: (ha)**

0 4 0.220

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Model Details

Storage is Online Cover Level (m) 86.000

Tank or Pond Structure

Invert Level (m) 85.539

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	2198.0	0.461	2198.0

Weir Overflow Control

Discharge Coef 0.544 Width (m) 3.000 Invert Level (m) 85.540

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	85.857	0.008	3.2	11.1	Flood Risk
30 min Summer	85.858	0.009	3.8	12.7	Flood Risk
60 min Summer	85.859	0.010	4.2	13.8	Flood Risk
120 min Summer	85.860	0.011	5.3	15.5	Flood Risk
180 min Summer	85.860	0.011	5.3	15.5	Flood Risk
240 min Summer	85.860	0.011	4.9	15.2	Flood Risk
360 min Summer	85.859	0.010	4.5	14.0	Flood Risk
480 min Summer	85.858	0.009	3.8	13.1	Flood Risk
600 min Summer	85.858	0.009	3.5	12.2	Flood Risk
720 min Summer	85.857	0.008	3.2	11.4	Flood Risk
960 min Summer	85.857	0.008	2.8	10.4	Flood Risk
1440 min Summer	85.855	0.006	1.9	8.9	Flood Risk
2160 min Summer	85.855	0.006	1.7	7.6	Flood Risk
2880 min Summer	85.854	0.005	1.4	6.9	Flood Risk
4320 min Summer	85.853	0.004	0.9	5.9	Flood Risk
5760 min Summer	85.853	0.004	0.9	5.6	Flood Risk
7200 min Summer	85.853	0.004	0.7	4.9	Flood Risk
8640 min Summer	85.853	0.004	0.7	4.9	Flood Risk
10080 min Summer	85.852	0.003	0.5	4.8	Flood Risk
15 min Winter	85.857	0.008	3.2	11.2	Flood Risk
30 min Winter	85.858	0.009	3.8	12.8	Flood Risk
60 min Winter	85.859	0.010	4.2	13.7	Flood Risk
120 min Winter	85.860	0.011	4.9	14.7	Flood Risk
180 min Winter	85.859	0.010	4.5	14.5	Flood Risk
240 min Winter	85.859	0.010	4.2	13.8	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	35.940	0.0	11.1	17
30 min Summer	22.822	0.0	14.5	27
60 min Summer	14.078	0.0	18.2	42
120 min Summer	9.627	0.0	25.4	76
180 min Summer	7.475	0.0	29.8	108
240 min Summer	6.162	0.0	32.9	140
360 min Summer	4.600	0.0	37.0	200
480 min Summer	3.694	0.0	39.7	264
600 min Summer	3.102	0.0	41.7	326
720 min Summer	2.682	0.0	43.4	386
960 min Summer	2.123	0.0	45.8	512
1440 min Summer	1.527	0.0	49.6	754
2160 min Summer	1.107	0.0	54.0	1108
2880 min Summer	0.888	0.0	57.9	1480
4320 min Summer	0.664	0.0	65.0	2208
5760 min Summer	0.548	0.0	71.7	2936
7200 min Summer	0.477	0.0	78.2	3640
8640 min Summer	0.429	0.0	84.5	4392
10080 min Summer	0.394	0.0	90.7	5152
15 min Winter	35.940	0.0	11.1	16
30 min Winter	22.822	0.0	14.5	28
60 min Winter	14.078	0.0	18.2	46
120 min Winter	9.627	0.0	25.4	80
180 min Winter	7.475	0.0	29.8	114
240 min Winter	6.162	0.0	32.9	148

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Summary of Results for 2 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	85.858	0.009	3.8	12.5	Flood Risk
480 min Winter	85.857	0.008	3.2	11.2	Flood Risk
600 min Winter	85.857	0.008	2.8	10.4	Flood Risk
720 min Winter	85.856	0.007	2.5	9.7	Flood Risk
960 min Winter	85.855	0.006	1.9	8.6	Flood Risk
1440 min Winter	85.854	0.005	1.4	7.2	Flood Risk
2160 min Winter	85.854	0.005	1.2	6.2	Flood Risk
2880 min Winter	85.853	0.004	0.9	5.6	Flood Risk
4320 min Winter	85.853	0.004	0.7	4.9	Flood Risk
5760 min Winter	85.852	0.003	0.5	4.2	Flood Risk
7200 min Winter	85.852	0.003	0.5	4.2	Flood Risk
8640 min Winter	85.852	0.003	0.5	4.2	Flood Risk
10080 min Winter	85.852	0.003	0.4	3.7	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	4.600	0.0	37.0	210
480 min Winter	3.694	0.0	39.7	270
600 min Winter	3.102	0.0	41.7	326
720 min Winter	2.682	0.0	43.4	384
960 min Winter	2.123	0.0	45.8	520
1440 min Winter	1.527	0.0	49.6	766
2160 min Winter	1.107	0.0	54.0	1096
2880 min Winter	0.888	0.0	57.9	1424
4320 min Winter	0.664	0.0	65.0	2348
5760 min Winter	0.548	0.0	71.7	2864
7200 min Winter	0.477	0.0	78.2	3656
8640 min Winter	0.429	0.0	84.5	4672
10080 min Winter	0.394	0.0	90.7	5248

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	85.866	0.017	10.6	24.2	Flood Risk
30 min Summer	85.869	0.020	13.1	27.4	Flood Risk
60 min Summer	85.870	0.021	14.7	29.1	Flood Risk
120 min Summer	85.869	0.020	13.7	28.4	Flood Risk
180 min Summer	85.868	0.019	12.6	26.7	Flood Risk
240 min Summer	85.867	0.018	11.6	25.0	Flood Risk
360 min Summer	85.865	0.016	9.6	22.2	Flood Risk
480 min Summer	85.864	0.015	8.2	20.1	Flood Risk
600 min Summer	85.862	0.013	6.9	18.4	Flood Risk
720 min Summer	85.861	0.012	6.1	17.1	Flood Risk
960 min Summer	85.860	0.011	4.9	15.1	Flood Risk
1440 min Summer	85.858	0.009	3.8	12.5	Flood Risk
2160 min Summer	85.857	0.008	2.8	10.4	Flood Risk
2880 min Summer	85.856	0.007	2.2	9.1	Flood Risk
4320 min Summer	85.855	0.006	1.7	7.7	Flood Risk
5760 min Summer	85.854	0.005	1.4	6.9	Flood Risk
7200 min Summer	85.854	0.005	1.2	6.3	Flood Risk
8640 min Summer	85.853	0.004	0.9	5.9	Flood Risk
10080 min Summer	85.853	0.004	0.9	5.6	Flood Risk
15 min Winter	85.867	0.018	11.1	24.3	Flood Risk
30 min Winter	85.869	0.020	13.1	27.4	Flood Risk
60 min Winter	85.869	0.020	13.7	28.2	Flood Risk
120 min Winter	85.868	0.019	12.6	26.4	Flood Risk
180 min Winter	85.866	0.017	10.6	24.2	Flood Risk
240 min Winter	85.865	0.016	9.6	22.2	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	83.255	0.0	27.5	16
30 min Summer	53.786	0.0	36.0	24
60 min Summer	33.433	0.0	45.1	40
120 min Summer	20.390	0.0	55.3	74
180 min Summer	15.113	0.0	61.6	104
240 min Summer	12.136	0.0	66.1	136
360 min Summer	8.798	0.0	72.0	196
480 min Summer	6.947	0.0	75.9	258
600 min Summer	5.763	0.0	78.7	320
720 min Summer	4.936	0.0	80.9	382
960 min Summer	3.852	0.0	84.3	504
1440 min Summer	2.710	0.0	89.0	738
2160 min Summer	1.913	0.0	94.3	1100
2880 min Summer	1.502	0.0	98.8	1468
4320 min Summer	1.084	0.0	107.1	2188
5760 min Summer	0.870	0.0	114.7	2920
7200 min Summer	0.740	0.0	122.0	3672
8640 min Summer	0.652	0.0	129.1	4408
10080 min Summer	0.589	0.0	136.2	5016
15 min Winter	83.255	0.0	27.5	16
30 min Winter	53.786	0.0	36.0	25
60 min Winter	33.433	0.0	45.1	44
120 min Winter	20.390	0.0	55.3	76
180 min Winter	15.113	0.0	61.6	110
240 min Winter	12.136	0.0	66.1	144



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Summary of Results for 30 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	85.863	0.014	7.4	19.1	Flood Risk
480 min Winter	85.861	0.012	6.1	16.9	Flood Risk
600 min Winter	85.860	0.011	5.3	15.3	Flood Risk
720 min Winter	85.859	0.010	4.5	14.1	Flood Risk
960 min Winter	85.858	0.009	3.5	12.4	Flood Risk
1440 min Winter	85.856	0.007	2.5	10.1	Flood Risk
2160 min Winter	85.855	0.006	1.9	8.3	Flood Risk
2880 min Winter	85.854	0.005	1.4	7.3	Flood Risk
4320 min Winter	85.854	0.005	1.2	6.2	Flood Risk
5760 min Winter	85.853	0.004	0.9	5.6	Flood Risk
7200 min Winter	85.853	0.004	0.7	4.9	Flood Risk
8640 min Winter	85.853	0.004	0.7	4.9	Flood Risk
10080 min Winter	85.853	0.004	0.7	4.9	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	8.798	0.0	72.0	204
480 min Winter	6.947	0.0	75.9	266
600 min Winter	5.763	0.0	78.7	324
720 min Winter	4.936	0.0	81.0	388
960 min Winter	3.852	0.0	84.3	520
1440 min Winter	2.710	0.0	89.0	766
2160 min Winter	1.913	0.0	94.3	1076
2880 min Winter	1.502	0.0	98.8	1524
4320 min Winter	1.084	0.0	107.1	2220
5760 min Winter	0.870	0.0	114.7	3144
7200 min Winter	0.740	0.0	122.0	3576
8640 min Winter	0.652	0.0	129.1	4840
10080 min Winter	0.589	0.0	136.2	5280

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	85.871	0.022	15.3	30.4	Flood Risk
30 min Summer	85.874	0.025	19.3	34.6	Flood Risk
60 min Summer	85.875	0.026	20.5	36.4	Flood Risk
120 min Summer	85.874	0.025	18.7	34.6	Flood Risk
180 min Summer	85.872	0.023	17.0	32.1	Flood Risk
240 min Summer	85.871	0.022	15.3	29.8	Flood Risk
360 min Summer	85.868	0.019	12.1	26.2	Flood Risk
480 min Summer	85.866	0.017	10.6	23.6	Flood Risk
600 min Summer	85.865	0.016	9.2	21.5	Flood Risk
720 min Summer	85.863	0.014	7.8	19.9	Flood Risk
960 min Summer	85.862	0.013	6.5	17.4	Flood Risk
1440 min Summer	85.860	0.011	4.9	14.5	Flood Risk
2160 min Summer	85.858	0.009	3.5	11.8	Flood Risk
2880 min Summer	85.857	0.008	2.8	10.4	Flood Risk
4320 min Summer	85.855	0.006	1.9	8.5	Flood Risk
5760 min Summer	85.855	0.006	1.7	7.7	Flood Risk
7200 min Summer	85.854	0.005	1.4	7.0	Flood Risk
8640 min Summer	85.854	0.005	1.2	6.3	Flood Risk
10080 min Summer	85.854	0.005	1.2	6.3	Flood Risk
15 min Winter	85.871	0.022	15.3	30.5	Flood Risk
30 min Winter	85.874	0.025	18.7	34.4	Flood Risk
60 min Winter	85.874	0.025	19.3	35.1	Flood Risk
120 min Winter	85.872	0.023	17.0	31.9	Flood Risk
180 min Winter	85.870	0.021	14.2	28.6	Flood Risk
240 min Winter	85.868	0.019	12.1	26.2	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	106.718	0.0	35.7	15
30 min Summer	69.623	0.0	47.0	23
60 min Summer	43.443	0.0	59.0	40
120 min Summer	26.110	0.0	71.2	72
180 min Summer	19.234	0.0	78.8	104
240 min Summer	15.397	0.0	84.2	134
360 min Summer	11.131	0.0	91.4	198
480 min Summer	8.775	0.0	96.2	258
600 min Summer	7.269	0.0	99.7	318
720 min Summer	6.220	0.0	102.4	382
960 min Summer	4.847	0.0	106.4	500
1440 min Summer	3.392	0.0	111.8	746
2160 min Summer	2.370	0.0	117.2	1104
2880 min Summer	1.844	0.0	121.7	1496
4320 min Summer	1.310	0.0	129.7	2204
5760 min Summer	1.038	0.0	137.1	2928
7200 min Summer	0.873	0.0	144.2	3648
8640 min Summer	0.762	0.0	151.1	4400
10080 min Summer	0.683	0.0	158.0	5136
15 min Winter	106.718	0.0	35.7	15
30 min Winter	69.623	0.0	47.0	24
60 min Winter	43.443	0.0	59.0	42
120 min Winter	26.110	0.0	71.2	76
180 min Winter	19.234	0.0	78.8	108
240 min Winter	15.397	0.0	84.2	140

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	85.865	0.016	9.6	22.4	Flood Risk
480 min Winter	85.863	0.014	7.8	19.7	Flood Risk
600 min Winter	85.862	0.013	6.5	17.9	Flood Risk
720 min Winter	85.861	0.012	5.7	16.3	Flood Risk
960 min Winter	85.859	0.010	4.5	14.1	Flood Risk
1440 min Winter	85.857	0.008	3.2	11.6	Flood Risk
2160 min Winter	85.856	0.007	2.2	9.4	Flood Risk
2880 min Winter	85.855	0.006	1.9	8.3	Flood Risk
4320 min Winter	85.854	0.005	1.4	6.9	Flood Risk
5760 min Winter	85.854	0.005	1.2	6.3	Flood Risk
7200 min Winter	85.853	0.004	0.9	5.6	Flood Risk
8640 min Winter	85.853	0.004	0.7	5.0	Flood Risk
10080 min Winter	85.853	0.004	0.7	4.9	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	11.131	0.0	91.4	202
480 min Winter	8.775	0.0	96.2	264
600 min Winter	7.269	0.0	99.7	328
720 min Winter	6.220	0.0	102.4	390
960 min Winter	4.847	0.0	106.4	510
1440 min Winter	3.392	0.0	111.8	766
2160 min Winter	2.370	0.0	117.2	1144
2880 min Winter	1.844	0.0	121.7	1480
4320 min Winter	1.310	0.0	129.7	2332
5760 min Winter	1.038	0.0	137.1	2912
7200 min Winter	0.873	0.0	144.2	3608
8640 min Winter	0.762	0.0	151.1	4416
10080 min Winter	0.683	0.0	158.0	4976

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Date 17/06/2022 15:49  
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Source Control 2020.1.3

Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	85.879	0.030	24.9	41.2	Flood Risk
30 min Summer	85.883	0.034	30.3	46.6	Flood Risk
60 min Summer	85.884	0.035	31.7	48.3	Flood Risk
120 min Summer	85.882	0.033	28.9	45.1	Flood Risk
180 min Summer	85.879	0.030	24.9	41.2	Flood Risk
240 min Summer	85.877	0.028	22.4	38.1	Flood Risk
360 min Summer	85.873	0.024	18.1	33.2	Flood Risk
480 min Summer	85.871	0.022	15.3	29.8	Flood Risk
600 min Summer	85.869	0.020	13.1	27.0	Flood Risk
720 min Summer	85.867	0.018	11.6	24.9	Flood Risk
960 min Summer	85.865	0.016	9.2	21.8	Flood Risk
1440 min Summer	85.862	0.013	6.5	18.0	Flood Risk
2160 min Summer	85.860	0.011	4.9	14.6	Flood Risk
2880 min Summer	85.858	0.009	3.8	12.6	Flood Risk
4320 min Summer	85.857	0.008	2.8	10.4	Flood Risk
5760 min Summer	85.856	0.007	2.2	9.1	Flood Risk
7200 min Summer	85.855	0.006	1.9	8.4	Flood Risk
8640 min Summer	85.855	0.006	1.7	7.7	Flood Risk
10080 min Summer	85.854	0.005	1.4	7.3	Flood Risk
15 min Winter	85.879	0.030	24.9	41.4	Flood Risk
30 min Winter	85.882	0.033	29.6	46.1	Flood Risk
60 min Winter	85.882	0.033	29.6	46.1	Flood Risk
120 min Winter	85.879	0.030	24.9	41.0	Flood Risk
180 min Winter	85.875	0.026	20.5	36.6	Flood Risk
240 min Winter	85.873	0.024	17.5	33.1	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	50.5	15
30 min Summer	97.472	0.0	66.4	23
60 min Summer	60.820	0.0	83.2	40
120 min Summer	36.554	0.0	100.2	72
180 min Summer	26.928	0.0	110.9	102
240 min Summer	21.556	0.0	118.5	134
360 min Summer	15.584	0.0	128.6	196
480 min Summer	12.284	0.0	135.2	256
600 min Summer	10.177	0.0	140.1	316
720 min Summer	8.708	0.0	143.9	378
960 min Summer	6.785	0.0	149.5	500
1440 min Summer	4.749	0.0	157.0	748
2160 min Summer	3.318	0.0	164.7	1100
2880 min Summer	2.582	0.0	170.9	1468
4320 min Summer	1.834	0.0	182.2	2180
5760 min Summer	1.453	0.0	192.5	2928
7200 min Summer	1.222	0.0	202.4	3664
8640 min Summer	1.067	0.0	212.1	4320
10080 min Summer	0.956	0.0	221.8	5144
15 min Winter	149.405	0.0	50.5	15
30 min Winter	97.472	0.0	66.4	24
60 min Winter	60.820	0.0	83.2	42
120 min Winter	36.554	0.0	100.2	74
180 min Winter	26.928	0.0	110.9	108
240 min Winter	21.556	0.0	118.5	138

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Summary of Results for 100 year Return Period (+40%)

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	85.869	0.020	13.7	28.0	Flood Risk
480 min Winter	85.867	0.018	11.1	24.5	Flood Risk
600 min Winter	85.865	0.016	9.6	22.2	Flood Risk
720 min Winter	85.864	0.015	8.2	20.1	Flood Risk
960 min Winter	85.862	0.013	6.5	17.4	Flood Risk
1440 min Winter	85.859	0.010	4.5	14.0	Flood Risk
2160 min Winter	85.857	0.008	3.2	11.4	Flood Risk
2880 min Winter	85.856	0.007	2.5	9.7	Flood Risk
4320 min Winter	85.855	0.006	1.9	8.3	Flood Risk
5760 min Winter	85.854	0.005	1.4	7.0	Flood Risk
7200 min Winter	85.854	0.005	1.2	6.5	Flood Risk
8640 min Winter	85.854	0.005	1.2	6.3	Flood Risk
10080 min Winter	85.853	0.004	0.9	5.6	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	15.584	0.0	128.6	200
480 min Winter	12.284	0.0	135.2	262
600 min Winter	10.177	0.0	140.1	322
720 min Winter	8.708	0.0	143.9	378
960 min Winter	6.785	0.0	149.5	500
1440 min Winter	4.749	0.0	157.0	750
2160 min Winter	3.318	0.0	164.7	1128
2880 min Winter	2.582	0.0	170.9	1432
4320 min Winter	1.834	0.0	182.2	2152
5760 min Winter	1.453	0.0	192.5	2792
7200 min Winter	1.222	0.0	202.4	3744
8640 min Winter	1.067	0.0	212.1	4400
10080 min Winter	0.956	0.0	221.8	5096

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.139

Time (mins)	Area
From: To:	(ha)

0	4	0.139
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Model Details

Storage is Online Cover Level (m) 86.000

Tank or Pond Structure

Invert Level (m) 85.849

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	1385.0	0.151	1385.0

Weir Overflow Control

Discharge Coef 0.544 Width (m) 3.000 Invert Level (m) 85.850

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.408	0.009	3.5	28.4	Flood Risk
30 min Summer	84.409	0.010	4.5	34.2	Flood Risk
60 min Summer	84.410	0.011	5.3	38.0	Flood Risk
120 min Summer	84.413	0.014	7.4	45.1	Flood Risk
180 min Summer	84.413	0.014	7.8	47.4	Flood Risk
240 min Summer	84.413	0.014	7.8	48.0	Flood Risk
360 min Summer	84.413	0.014	7.8	46.8	Flood Risk
480 min Summer	84.412	0.013	6.9	44.8	Flood Risk
600 min Summer	84.412	0.013	6.5	42.6	Flood Risk
720 min Summer	84.411	0.012	6.1	40.7	Flood Risk
960 min Summer	84.410	0.011	5.3	37.4	Flood Risk
1440 min Summer	84.409	0.010	4.2	32.8	Flood Risk
2160 min Summer	84.408	0.009	3.5	28.4	Flood Risk
2880 min Summer	84.407	0.008	2.8	25.5	Flood Risk
4320 min Summer	84.406	0.007	2.2	22.2	Flood Risk
5760 min Summer	84.405	0.006	1.9	20.2	Flood Risk
7200 min Summer	84.405	0.006	1.7	18.7	Flood Risk
8640 min Summer	84.404	0.005	1.4	18.2	Flood Risk
10080 min Summer	84.404	0.005	1.4	16.8	Flood Risk
15 min Winter	84.408	0.009	3.5	28.5	Flood Risk
30 min Winter	84.409	0.010	4.5	34.4	Flood Risk
60 min Winter	84.410	0.011	5.3	38.2	Flood Risk
120 min Winter	84.412	0.013	6.9	44.6	Flood Risk
180 min Winter	84.413	0.014	7.4	46.1	Flood Risk
240 min Winter	84.413	0.014	7.4	45.7	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	35.940	0.0	25.9	18
30 min Summer	22.822	0.0	33.9	31
60 min Summer	14.078	0.0	43.7	54
120 min Summer	9.627	0.0	61.0	82
180 min Summer	7.475	0.0	71.6	116
240 min Summer	6.162	0.0	79.0	150
360 min Summer	4.600	0.0	88.8	214
480 min Summer	3.694	0.0	95.4	280
600 min Summer	3.102	0.0	100.3	342
720 min Summer	2.682	0.0	104.2	404
960 min Summer	2.123	0.0	110.1	528
1440 min Summer	1.527	0.0	118.5	778
2160 min Summer	1.107	0.0	129.7	1128
2880 min Summer	0.888	0.0	139.0	1500
4320 min Summer	0.664	0.0	155.9	2208
5760 min Summer	0.548	0.0	172.3	2936
7200 min Summer	0.477	0.0	187.8	3672
8640 min Summer	0.429	0.0	203.0	4488
10080 min Summer	0.394	0.0	217.6	5136
15 min Winter	35.940	0.0	25.9	18
30 min Winter	22.822	0.0	33.9	31
60 min Winter	14.078	0.0	43.7	58
120 min Winter	9.627	0.0	61.0	88
180 min Winter	7.475	0.0	71.6	124
240 min Winter	6.162	0.0	79.0	160



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Summary of Results for 2 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.412	0.013	6.9	43.5	Flood Risk
480 min Winter	84.411	0.012	6.1	40.7	Flood Risk
600 min Winter	84.411	0.012	5.7	38.4	Flood Risk
720 min Winter	84.410	0.011	4.9	36.2	Flood Risk
960 min Winter	84.409	0.010	4.2	32.6	Flood Risk
1440 min Winter	84.407	0.008	3.2	27.9	Flood Risk
2160 min Winter	84.406	0.007	2.5	23.4	Flood Risk
2880 min Winter	84.405	0.006	1.9	21.1	Flood Risk
4320 min Winter	84.405	0.006	1.7	18.4	Flood Risk
5760 min Winter	84.404	0.005	1.4	16.7	Flood Risk
7200 min Winter	84.404	0.005	1.2	15.1	Flood Risk
8640 min Winter	84.403	0.004	0.9	14.8	Flood Risk
10080 min Winter	84.403	0.004	0.9	13.4	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	4.600	0.0	88.8	226
480 min Winter	3.694	0.0	95.4	292
600 min Winter	3.102	0.0	100.3	356
720 min Winter	2.682	0.0	104.2	422
960 min Winter	2.123	0.0	110.1	548
1440 min Winter	1.527	0.0	118.6	806
2160 min Winter	1.107	0.0	129.7	1128
2880 min Winter	0.888	0.0	139.0	1556
4320 min Winter	0.664	0.0	156.0	2256
5760 min Winter	0.548	0.0	172.3	3104
7200 min Winter	0.477	0.0	187.8	3672
8640 min Winter	0.429	0.0	202.9	4664
10080 min Winter	0.394	0.0	217.9	5104

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Summary of Results for 30 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
15 min Summer	84.418	0.019	12.6	63.7	Flood Risk
30 min Summer	84.422	0.023	16.4	75.6	Flood Risk
60 min Summer	84.424	0.025	18.7	82.8	Flood Risk
<b>120 min Summer</b>	<b>84.425</b>	<b>0.026</b>	<b>20.5</b>	<b>86.9</b>	<b>Flood Risk</b>
180 min Summer	84.425	0.026	19.9	85.9	Flood Risk
240 min Summer	84.424	0.025	19.3	83.6	Flood Risk
360 min Summer	84.422	0.023	17.0	77.5	Flood Risk
480 min Summer	84.421	0.022	15.3	72.0	Flood Risk
600 min Summer	84.419	0.020	13.7	67.2	Flood Risk
720 min Summer	84.418	0.019	12.1	63.3	Flood Risk
960 min Summer	84.416	0.017	10.6	56.8	Flood Risk
1440 min Summer	84.413	0.014	7.8	48.2	Flood Risk
2160 min Summer	84.411	0.012	6.1	40.4	Flood Risk
2880 min Summer	84.410	0.011	4.9	35.6	Flood Risk
4320 min Summer	84.408	0.009	3.8	30.1	Flood Risk
5760 min Summer	84.407	0.008	3.2	26.8	Flood Risk
7200 min Summer	84.406	0.007	2.5	24.6	Flood Risk
8640 min Summer	84.406	0.007	2.2	23.1	Flood Risk
10080 min Summer	84.406	0.007	2.2	21.8	Flood Risk
15 min Winter	84.418	0.019	12.6	63.9	Flood Risk
30 min Winter	84.422	0.023	16.4	76.2	Flood Risk
60 min Winter	84.424	0.025	18.7	82.8	Flood Risk
120 min Winter	84.424	0.025	19.3	84.6	Flood Risk
180 min Winter	84.423	0.024	18.1	81.7	Flood Risk
240 min Winter	84.422	0.023	17.0	78.0	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
15 min Summer	83.255	0.0	65.3	17
30 min Summer	53.786	0.0	85.6	30
60 min Summer	33.433	0.0	108.3	46
<b>120 min Summer</b>	<b>20.390</b>	<b>0.0</b>	<b>132.9</b>	<b>78</b>
180 min Summer	15.113	0.0	148.1	112
240 min Summer	12.136	0.0	158.8	144
360 min Summer	8.798	0.0	173.0	210
480 min Summer	6.947	0.0	182.3	272
600 min Summer	5.763	0.0	189.1	334
720 min Summer	4.936	0.0	194.5	398
960 min Summer	3.852	0.0	202.4	518
1440 min Summer	2.710	0.0	213.3	766
2160 min Summer	1.913	0.0	226.7	1124
2880 min Summer	1.502	0.0	237.5	1496
4320 min Summer	1.084	0.0	256.9	2244
5760 min Summer	0.870	0.0	275.6	2936
7200 min Summer	0.740	0.0	293.2	3680
8640 min Summer	0.652	0.0	310.3	4416
10080 min Summer	0.589	0.0	327.0	5120
15 min Winter	83.255	0.0	65.3	17
30 min Winter	53.786	0.0	85.6	30
60 min Winter	33.433	0.0	108.3	48
120 min Winter	20.390	0.0	132.9	84
180 min Winter	15.113	0.0	148.1	120
240 min Winter	12.136	0.0	158.8	154

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Summary of Results for 30 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.420	0.021	14.7	70.4	Flood Risk
480 min Winter	84.418	0.019	12.6	64.1	Flood Risk
600 min Winter	84.417	0.018	11.1	59.0	Flood Risk
720 min Winter	84.415	0.016	9.6	54.9	Flood Risk
960 min Winter	84.414	0.015	8.2	48.4	Flood Risk
1440 min Winter	84.411	0.012	6.1	40.1	Flood Risk
2160 min Winter	84.409	0.010	4.2	33.1	Flood Risk
2880 min Winter	84.408	0.009	3.5	28.4	Flood Risk
4320 min Winter	84.406	0.007	2.5	23.5	Flood Risk
5760 min Winter	84.405	0.006	1.9	21.5	Flood Risk
7200 min Winter	84.405	0.006	1.7	19.4	Flood Risk
8640 min Winter	84.405	0.006	1.7	18.4	Flood Risk
10080 min Winter	84.404	0.005	1.4	16.8	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	8.798	0.0	173.0	218
480 min Winter	6.947	0.0	182.3	284
600 min Winter	5.763	0.0	189.1	346
720 min Winter	4.936	0.0	194.5	412
960 min Winter	3.852	0.0	202.4	532
1440 min Winter	2.710	0.0	213.3	780
2160 min Winter	1.913	0.0	226.7	1168
2880 min Winter	1.502	0.0	237.5	1472
4320 min Winter	1.084	0.0	257.0	2204
5760 min Winter	0.870	0.0	275.6	3056
7200 min Winter	0.740	0.0	293.2	3816
8640 min Winter	0.652	0.0	310.3	4408
10080 min Winter	0.589	0.0	327.1	5136

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.423	0.024	18.1	80.7	Flood Risk
30 min Summer	84.428	0.029	23.6	95.7	Flood Risk
60 min Summer	84.430	0.031	26.9	105.1	Flood Risk
<b>120 min Summer</b>	<b>84.431</b>	<b>0.032</b>	<b>28.2</b>	<b>107.7</b>	<b>Flood Risk</b>
180 min Summer	84.430	0.031	26.9	105.1	Flood Risk
240 min Summer	84.429	0.030	25.6	101.1	Flood Risk
360 min Summer	84.427	0.028	22.4	93.0	Flood Risk
480 min Summer	84.425	0.026	19.9	85.8	Flood Risk
600 min Summer	84.423	0.024	17.5	79.9	Flood Risk
720 min Summer	84.421	0.022	15.8	74.8	Flood Risk
960 min Summer	84.419	0.020	13.7	66.8	Flood Risk
1440 min Summer	84.416	0.017	10.1	56.0	Flood Risk
2160 min Summer	84.413	0.014	7.4	46.6	Flood Risk
2880 min Summer	84.411	0.012	6.1	40.5	Flood Risk
4320 min Summer	84.409	0.010	4.5	33.7	Flood Risk
5760 min Summer	84.408	0.009	3.5	30.0	Flood Risk
7200 min Summer	84.407	0.008	3.2	26.8	Flood Risk
8640 min Summer	84.407	0.008	2.8	25.1	Flood Risk
10080 min Summer	84.406	0.007	2.5	23.5	Flood Risk
15 min Winter	84.423	0.024	18.1	80.9	Flood Risk
30 min Winter	84.428	0.029	23.6	96.5	Flood Risk
60 min Winter	84.430	0.031	26.9	104.6	Flood Risk
120 min Winter	84.430	0.031	26.9	104.0	Flood Risk
180 min Winter	84.429	0.030	24.9	99.2	Flood Risk
240 min Winter	84.427	0.028	23.0	93.7	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	106.718	0.0	84.8	17
30 min Summer	69.623	0.0	112.0	29
60 min Summer	43.443	0.0	141.8	44
<b>120 min Summer</b>	<b>26.110</b>	<b>0.0</b>	<b>171.1</b>	<b>78</b>
180 min Summer	19.234	0.0	189.4	112
240 min Summer	15.397	0.0	202.4	144
360 min Summer	11.131	0.0	219.7	208
480 min Summer	8.775	0.0	231.1	270
600 min Summer	7.269	0.0	239.5	332
720 min Summer	6.220	0.0	246.0	394
960 min Summer	4.847	0.0	255.5	518
1440 min Summer	3.392	0.0	267.9	764
2160 min Summer	2.370	0.0	281.7	1128
2880 min Summer	1.844	0.0	292.3	1496
4320 min Summer	1.310	0.0	311.3	2204
5760 min Summer	1.038	0.0	329.5	2944
7200 min Summer	0.873	0.0	346.5	3672
8640 min Summer	0.762	0.0	363.1	4384
10080 min Summer	0.683	0.0	379.3	5080
15 min Winter	106.718	0.0	84.8	17
30 min Winter	69.623	0.0	112.0	30
60 min Winter	43.443	0.0	141.8	46
120 min Winter	26.110	0.0	171.1	84
180 min Winter	19.234	0.0	189.4	118
240 min Winter	15.397	0.0	202.4	152

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Summary of Results for 100 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.424	0.025	19.3	83.7	Flood Risk
480 min Winter	84.422	0.023	16.4	75.7	Flood Risk
600 min Winter	84.420	0.021	14.2	69.3	Flood Risk
720 min Winter	84.418	0.019	12.6	64.1	Flood Risk
960 min Winter	84.416	0.017	10.1	56.3	Flood Risk
1440 min Winter	84.413	0.014	7.4	46.2	Flood Risk
2160 min Winter	84.410	0.011	5.3	37.6	Flood Risk
2880 min Winter	84.409	0.010	4.2	32.4	Flood Risk
4320 min Winter	84.407	0.008	3.2	26.8	Flood Risk
5760 min Winter	84.406	0.007	2.5	23.4	Flood Risk
7200 min Winter	84.406	0.007	2.2	21.7	Flood Risk
8640 min Winter	84.405	0.006	1.9	20.1	Flood Risk
10080 min Winter	84.405	0.006	1.7	18.4	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	11.131	0.0	219.7	216
480 min Winter	8.775	0.0	231.1	280
600 min Winter	7.269	0.0	239.5	344
720 min Winter	6.220	0.0	246.0	406
960 min Winter	4.847	0.0	255.6	532
1440 min Winter	3.392	0.0	267.9	780
2160 min Winter	2.370	0.0	281.7	1148
2880 min Winter	1.844	0.0	292.3	1524
4320 min Winter	1.310	0.0	311.4	2208
5760 min Winter	1.038	0.0	329.5	2928
7200 min Winter	0.873	0.0	346.5	3808
8640 min Winter	0.762	0.0	363.1	4512
10080 min Winter	0.683	0.0	379.5	5048

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.432	0.033	29.6	111.0	Flood Risk
30 min Summer	84.438	0.039	37.5	130.2	Flood Risk
60 min Summer	84.442	0.043	43.6	142.0	Flood Risk
120 min Summer	84.442	0.043	43.6	143.5	Flood Risk
180 min Summer	84.441	0.042	42.0	138.7	Flood Risk
240 min Summer	84.439	0.040	39.0	132.6	Flood Risk
360 min Summer	84.435	0.036	33.8	120.4	Flood Risk
480 min Summer	84.432	0.033	28.9	110.2	Flood Risk
600 min Summer	84.430	0.031	26.2	101.9	Flood Risk
720 min Summer	84.427	0.028	23.0	95.2	Flood Risk
960 min Summer	84.424	0.025	19.3	84.5	Flood Risk
1440 min Summer	84.420	0.021	14.7	70.4	Flood Risk
2160 min Summer	84.416	0.017	10.6	58.3	Flood Risk
2880 min Summer	84.414	0.015	8.7	50.5	Flood Risk
4320 min Summer	84.412	0.013	6.5	41.8	Flood Risk
5760 min Summer	84.410	0.011	5.3	36.7	Flood Risk
7200 min Summer	84.409	0.010	4.5	33.4	Flood Risk
8640 min Summer	84.408	0.009	3.8	30.4	Flood Risk
10080 min Summer	84.408	0.009	3.5	28.4	Flood Risk
15 min Winter	84.432	0.033	29.6	111.3	Flood Risk
30 min Winter	84.438	0.039	38.2	130.9	Flood Risk
60 min Winter	84.441	0.042	42.8	140.9	Flood Risk
120 min Winter	84.440	0.041	41.3	137.5	Flood Risk
180 min Winter	84.438	0.039	37.5	129.6	Flood Risk
240 min Winter	84.435	0.036	33.8	121.5	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	120.5	17
30 min Summer	97.472	0.0	158.5	27
60 min Summer	60.820	0.0	199.8	42
120 min Summer	36.554	0.0	240.8	76
180 min Summer	26.928	0.0	266.5	110
240 min Summer	21.556	0.0	284.6	142
360 min Summer	15.584	0.0	309.0	204
480 min Summer	12.284	0.0	324.9	268
600 min Summer	10.177	0.0	336.6	328
720 min Summer	8.708	0.0	345.7	392
960 min Summer	6.785	0.0	359.1	512
1440 min Summer	4.749	0.0	376.6	752
2160 min Summer	3.318	0.0	395.7	1124
2880 min Summer	2.582	0.0	410.6	1472
4320 min Summer	1.834	0.0	437.3	2204
5760 min Summer	1.453	0.0	462.6	2936
7200 min Summer	1.222	0.0	486.4	3672
8640 min Summer	1.067	0.0	509.7	4408
10080 min Summer	0.956	0.0	532.5	5032
15 min Winter	149.405	0.0	120.5	17
30 min Winter	97.472	0.0	158.5	29
60 min Winter	60.820	0.0	199.8	46
120 min Winter	36.554	0.0	240.8	82
180 min Winter	26.928	0.0	266.5	116
240 min Winter	21.556	0.0	284.6	150

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	84.431	0.032	28.2	107.0	Flood Risk
480 min Winter	84.428	0.029	23.6	96.1	Flood Risk
600 min Winter	84.425	0.026	20.5	87.5	Flood Risk
720 min Winter	84.423	0.024	18.1	80.6	Flood Risk
960 min Winter	84.420	0.021	14.7	70.3	Flood Risk
1440 min Winter	84.416	0.017	10.6	57.2	Flood Risk
2160 min Winter	84.413	0.014	7.4	46.7	Flood Risk
2880 min Winter	84.411	0.012	6.1	40.1	Flood Risk
4320 min Winter	84.409	0.010	4.2	32.7	Flood Risk
5760 min Winter	84.408	0.009	3.5	28.5	Flood Risk
7200 min Winter	84.407	0.008	2.8	25.4	Flood Risk
8640 min Winter	84.406	0.007	2.5	23.5	Flood Risk
10080 min Winter	84.406	0.007	2.2	21.9	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	15.584	0.0	309.0	214
480 min Winter	12.284	0.0	324.9	278
600 min Winter	10.177	0.0	336.6	340
720 min Winter	8.708	0.0	345.7	400
960 min Winter	6.785	0.0	359.1	522
1440 min Winter	4.749	0.0	376.6	766
2160 min Winter	3.318	0.0	395.7	1152
2880 min Winter	2.582	0.0	410.6	1476
4320 min Winter	1.834	0.0	437.3	2252
5760 min Winter	1.453	0.0	462.6	2856
7200 min Winter	1.222	0.0	486.4	3680
8640 min Winter	1.067	0.0	509.7	4400
10080 min Winter	0.956	0.0	532.6	5144

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.334

**Time (mins) Area**  
**From: To: (ha)**

0 4 0.334



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Model Details

Storage is Online Cover Level (m) 84.550

Tank or Pond Structure

Invert Level (m) 84.399

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	3340.0	0.151	3340.0

Weir Overflow Control

Discharge Coef 0.544 Width (m) 3.000 Invert Level (m) 84.400

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.107	0.008	3.2	15.9	O K
30 min Summer	84.109	0.010	4.2	18.5	O K
60 min Summer	84.109	0.010	4.5	20.2	O K
120 min Summer	84.111	0.012	6.1	23.4	O K
180 min Summer	84.111	0.012	6.1	23.9	O K
240 min Summer	84.111	0.012	6.1	23.6	O K
360 min Summer	84.111	0.012	5.7	22.3	O K
480 min Summer	84.110	0.011	4.9	20.9	O K
600 min Summer	84.109	0.010	4.5	19.6	O K
720 min Summer	84.109	0.010	4.2	18.5	O K
960 min Summer	84.108	0.009	3.5	16.8	O K
1440 min Summer	84.107	0.008	2.8	14.5	O K
2160 min Summer	84.106	0.007	2.2	12.6	O K
2880 min Summer	84.105	0.006	1.7	11.2	O K
4320 min Summer	84.104	0.005	1.4	9.7	O K
5760 min Summer	84.104	0.005	1.2	8.8	O K
7200 min Summer	84.103	0.004	0.9	8.3	O K
8640 min Summer	84.103	0.004	0.9	7.8	O K
10080 min Summer	84.103	0.004	0.9	7.8	O K
15 min Winter	84.107	0.008	3.2	16.0	O K
30 min Winter	84.109	0.010	4.2	18.7	O K
60 min Winter	84.109	0.010	4.5	20.2	O K
120 min Winter	84.111	0.012	5.7	22.6	O K
180 min Winter	84.111	0.012	5.7	22.6	O K
240 min Winter	84.110	0.011	5.3	21.9	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	35.940	0.0	15.4	17
30 min Summer	22.822	0.0	20.1	30
60 min Summer	14.078	0.0	25.2	46
120 min Summer	9.627	0.0	35.2	78
180 min Summer	7.475	0.0	41.3	110
240 min Summer	6.162	0.0	45.6	144
360 min Summer	4.600	0.0	51.3	204
480 min Summer	3.694	0.0	55.1	268
600 min Summer	3.102	0.0	57.9	330
720 min Summer	2.682	0.0	60.2	390
960 min Summer	2.123	0.0	63.6	512
1440 min Summer	1.527	0.0	68.8	750
2160 min Summer	1.107	0.0	75.0	1124
2880 min Summer	0.888	0.0	80.3	1496
4320 min Summer	0.664	0.0	90.3	2204
5760 min Summer	0.548	0.0	99.6	2904
7200 min Summer	0.477	0.0	108.5	3680
8640 min Summer	0.429	0.0	117.3	4360
10080 min Summer	0.394	0.0	125.9	5096
15 min Winter	35.940	0.0	15.4	17
30 min Winter	22.822	0.0	20.1	30
60 min Winter	14.078	0.0	25.2	48
120 min Winter	9.627	0.0	35.2	84
180 min Winter	7.475	0.0	41.3	118
240 min Winter	6.162	0.0	45.6	152

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Summary of Results for 2 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.109	0.010	4.5	20.2	O K
480 min Winter	84.109	0.010	4.2	18.4	O K
600 min Winter	84.108	0.009	3.5	17.2	O K
720 min Winter	84.107	0.008	3.2	16.0	O K
960 min Winter	84.106	0.007	2.5	14.4	O K
1440 min Winter	84.105	0.006	1.9	12.0	O K
2160 min Winter	84.104	0.005	1.4	10.2	O K
2880 min Winter	84.104	0.005	1.2	8.9	O K
4320 min Winter	84.103	0.004	0.9	7.8	O K
5760 min Winter	84.103	0.004	0.7	6.8	O K
7200 min Winter	84.103	0.004	0.7	6.8	O K
8640 min Winter	84.102	0.003	0.5	6.7	O K
10080 min Winter	84.102	0.003	0.5	5.9	O K

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	4.600	0.0	51.3	218
480 min Winter	3.694	0.0	55.1	276
600 min Winter	3.102	0.0	57.9	344
720 min Winter	2.682	0.0	60.2	406
960 min Winter	2.123	0.0	63.6	538
1440 min Winter	1.527	0.0	68.8	778
2160 min Winter	1.107	0.0	75.0	1164
2880 min Winter	0.888	0.0	80.3	1500
4320 min Winter	0.664	0.0	90.3	2168
5760 min Winter	0.548	0.0	99.6	2944
7200 min Winter	0.477	0.0	108.5	3640
8640 min Winter	0.429	0.0	117.3	4664
10080 min Winter	0.394	0.0	125.9	5048

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.117	0.018	11.6	35.0	O K
30 min Summer	84.120	0.021	14.2	40.3	O K
60 min Summer	84.121	0.022	15.8	43.5	O K
120 min Summer	84.122	0.023	16.4	43.8	O K
180 min Summer	84.121	0.022	15.3	41.9	O K
240 min Summer	84.120	0.021	14.2	39.8	O K
360 min Summer	84.118	0.019	12.1	35.8	O K
480 min Summer	84.116	0.017	10.1	32.8	O K
600 min Summer	84.115	0.016	9.2	30.1	O K
720 min Summer	84.114	0.015	8.2	28.1	O K
960 min Summer	84.112	0.013	6.5	25.0	O K
1440 min Summer	84.110	0.011	4.9	20.9	O K
2160 min Summer	84.108	0.009	3.8	17.4	O K
2880 min Summer	84.107	0.008	3.2	15.5	O K
4320 min Summer	84.106	0.007	2.2	12.7	O K
5760 min Summer	84.105	0.006	1.9	11.6	O K
7200 min Summer	84.105	0.006	1.7	10.7	O K
8640 min Summer	84.104	0.005	1.4	9.7	O K
10080 min Summer	84.104	0.005	1.2	9.5	O K
15 min Winter	84.117	0.018	11.6	35.1	O K
30 min Winter	84.120	0.021	14.2	40.4	O K
60 min Winter	84.121	0.022	15.8	42.8	O K
120 min Winter	84.120	0.021	14.7	41.5	O K
180 min Winter	84.119	0.020	13.1	38.7	O K
240 min Winter	84.118	0.019	12.1	36.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	83.255	0.0	38.2	16
30 min Summer	53.786	0.0	50.0	25
60 min Summer	33.433	0.0	62.6	42
120 min Summer	20.390	0.0	76.8	74
180 min Summer	15.113	0.0	85.6	108
240 min Summer	12.136	0.0	91.8	138
360 min Summer	8.798	0.0	100.0	200
480 min Summer	6.947	0.0	105.3	264
600 min Summer	5.763	0.0	109.3	324
720 min Summer	4.936	0.0	112.4	384
960 min Summer	3.852	0.0	117.0	510
1440 min Summer	2.710	0.0	123.6	752
2160 min Summer	1.913	0.0	131.0	1120
2880 min Summer	1.502	0.0	137.2	1484
4320 min Summer	1.084	0.0	148.7	2204
5760 min Summer	0.870	0.0	159.2	2936
7200 min Summer	0.740	0.0	169.4	3672
8640 min Summer	0.652	0.0	179.3	4400
10080 min Summer	0.589	0.0	189.1	5144
15 min Winter	83.255	0.0	38.2	16
30 min Winter	53.786	0.0	50.0	26
60 min Winter	33.433	0.0	62.6	44
120 min Winter	20.390	0.0	76.8	80
180 min Winter	15.113	0.0	85.6	114
240 min Winter	12.136	0.0	91.8	146

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	84.115	0.016	9.6	31.6	O K
480 min Winter	84.114	0.015	8.2	28.1	O K
600 min Winter	84.112	0.013	6.9	25.6	O K
720 min Winter	84.111	0.012	6.1	23.6	O K
960 min Winter	84.110	0.011	4.9	20.5	O K
1440 min Winter	84.108	0.009	3.5	17.0	O K
2160 min Winter	84.106	0.007	2.5	13.8	O K
2880 min Winter	84.105	0.006	1.9	12.2	O K
4320 min Winter	84.104	0.005	1.4	10.2	O K
5760 min Winter	84.104	0.005	1.2	8.8	O K
7200 min Winter	84.104	0.005	1.2	8.7	O K
8640 min Winter	84.103	0.004	0.9	7.8	O K
10080 min Winter	84.103	0.004	0.9	7.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	8.798	0.0	100.0	210
480 min Winter	6.947	0.0	105.3	270
600 min Winter	5.763	0.0	109.3	334
720 min Winter	4.936	0.0	112.4	396
960 min Winter	3.852	0.0	117.0	518
1440 min Winter	2.710	0.0	123.6	766
2160 min Winter	1.913	0.0	131.0	1128
2880 min Winter	1.502	0.0	137.2	1528
4320 min Winter	1.084	0.0	148.7	2288
5760 min Winter	0.870	0.0	159.2	2936
7200 min Winter	0.740	0.0	169.4	3776
8640 min Winter	0.652	0.0	179.3	4320
10080 min Winter	0.589	0.0	189.1	5392

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.122	0.023	16.4	44.1	O K
30 min Summer	84.125	0.026	20.5	50.8	O K
60 min Summer	84.127	0.028	23.0	54.6	O K
120 min Summer	84.127	0.028	22.4	53.5	O K
180 min Summer	84.125	0.026	20.5	50.6	O K
240 min Summer	84.124	0.025	18.7	47.7	O K
360 min Summer	84.121	0.022	15.8	42.6	O K
480 min Summer	84.119	0.020	13.1	38.7	O K
600 min Summer	84.117	0.018	11.6	35.4	O K
720 min Summer	84.116	0.017	10.6	33.0	O K
960 min Summer	84.114	0.015	8.7	29.1	O K
1440 min Summer	84.112	0.013	6.5	24.2	O K
2160 min Summer	84.109	0.010	4.5	19.8	O K
2880 min Summer	84.108	0.009	3.8	17.5	O K
4320 min Summer	84.107	0.008	2.8	14.5	O K
5760 min Summer	84.106	0.007	2.2	12.6	O K
7200 min Summer	84.105	0.006	1.9	11.6	O K
8640 min Summer	84.105	0.006	1.7	10.7	O K
10080 min Summer	84.104	0.005	1.4	9.9	O K
15 min Winter	84.122	0.023	16.4	44.3	O K
30 min Winter	84.125	0.026	20.5	50.9	O K
60 min Winter	84.127	0.028	22.4	53.5	O K
120 min Winter	84.125	0.026	19.9	50.3	O K
180 min Winter	84.123	0.024	17.5	46.4	O K
240 min Winter	84.121	0.022	15.8	42.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	106.718	0.0	49.6	16
30 min Summer	69.623	0.0	65.3	25
60 min Summer	43.443	0.0	81.9	42
120 min Summer	26.110	0.0	98.9	74
180 min Summer	19.234	0.0	109.4	106
240 min Summer	15.397	0.0	116.9	138
360 min Summer	11.131	0.0	127.0	200
480 min Summer	8.775	0.0	133.5	262
600 min Summer	7.269	0.0	138.4	324
720 min Summer	6.220	0.0	142.1	384
960 min Summer	4.847	0.0	147.7	502
1440 min Summer	3.392	0.0	155.2	746
2160 min Summer	2.370	0.0	162.8	1120
2880 min Summer	1.844	0.0	168.9	1468
4320 min Summer	1.310	0.0	180.1	2200
5760 min Summer	1.038	0.0	190.4	2904
7200 min Summer	0.873	0.0	200.2	3640
8640 min Summer	0.762	0.0	209.8	4360
10080 min Summer	0.683	0.0	219.4	5136
15 min Winter	106.718	0.0	49.6	16
30 min Winter	69.623	0.0	65.3	26
60 min Winter	43.443	0.0	81.9	44
120 min Winter	26.110	0.0	98.9	78
180 min Winter	19.234	0.0	109.4	112
240 min Winter	15.397	0.0	116.9	144

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	84.118	0.019	12.6	37.1	O K
480 min Winter	84.116	0.017	10.6	32.9	O K
600 min Winter	84.115	0.016	9.2	30.0	O K
720 min Winter	84.113	0.014	7.8	27.4	O K
960 min Winter	84.111	0.012	6.1	23.9	O K
1440 min Winter	84.109	0.010	4.5	19.4	O K
2160 min Winter	84.107	0.008	3.2	15.7	O K
2880 min Winter	84.106	0.007	2.5	13.6	O K
4320 min Winter	84.105	0.006	1.9	11.6	O K
5760 min Winter	84.104	0.005	1.4	9.7	O K
7200 min Winter	84.104	0.005	1.2	8.8	O K
8640 min Winter	84.104	0.005	1.2	8.7	O K
10080 min Winter	84.103	0.004	0.9	7.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	11.131	0.0	127.0	208
480 min Winter	8.775	0.0	133.5	268
600 min Winter	7.269	0.0	138.4	334
720 min Winter	6.220	0.0	142.1	392
960 min Winter	4.847	0.0	147.7	520
1440 min Winter	3.392	0.0	155.2	738
2160 min Winter	2.370	0.0	162.8	1124
2880 min Winter	1.844	0.0	168.9	1456
4320 min Winter	1.310	0.0	180.1	2276
5760 min Winter	1.038	0.0	190.4	2928
7200 min Winter	0.873	0.0	200.2	3680
8640 min Winter	0.762	0.0	209.8	4456
10080 min Winter	0.683	0.0	219.4	5128

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.130	0.031	26.9	60.2	O K
30 min Summer	84.135	0.036	33.1	68.9	O K
60 min Summer	84.137	0.038	36.0	73.3	O K
120 min Summer	84.135	0.036	33.8	70.6	O K
180 min Summer	84.133	0.034	31.0	66.0	O K
240 min Summer	84.131	0.032	27.6	61.6	O K
360 min Summer	84.127	0.028	23.0	54.5	O K
480 min Summer	84.124	0.025	19.3	49.1	O K
600 min Summer	84.122	0.023	17.0	44.8	O K
720 min Summer	84.121	0.022	15.3	41.6	O K
960 min Summer	84.118	0.019	12.1	36.5	O K
1440 min Summer	84.115	0.016	9.2	30.0	O K
2160 min Summer	84.112	0.013	6.5	24.6	O K
2880 min Summer	84.110	0.011	5.3	21.4	O K
4320 min Summer	84.108	0.009	3.8	17.5	O K
5760 min Summer	84.107	0.008	3.2	15.5	O K
7200 min Summer	84.106	0.007	2.5	13.9	O K
8640 min Summer	84.106	0.007	2.2	12.7	O K
10080 min Summer	84.105	0.006	1.9	12.4	O K
15 min Winter	84.130	0.031	26.9	60.4	O K
30 min Winter	84.135	0.036	33.1	68.8	O K
60 min Winter	84.136	0.037	34.6	71.0	O K
120 min Winter	84.133	0.034	30.3	65.5	O K
180 min Winter	84.130	0.031	26.2	59.6	O K
240 min Winter	84.127	0.028	23.0	54.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	70.2	16
30 min Summer	97.472	0.0	92.1	24
60 min Summer	60.820	0.0	115.5	40
120 min Summer	36.554	0.0	139.2	74
180 min Summer	26.928	0.0	154.0	104
240 min Summer	21.556	0.0	164.5	136
360 min Summer	15.584	0.0	178.5	198
480 min Summer	12.284	0.0	187.7	260
600 min Summer	10.177	0.0	194.5	320
720 min Summer	8.708	0.0	199.7	382
960 min Summer	6.785	0.0	207.6	504
1440 min Summer	4.749	0.0	218.0	740
2160 min Summer	3.318	0.0	228.6	1104
2880 min Summer	2.582	0.0	237.2	1468
4320 min Summer	1.834	0.0	253.0	2200
5760 min Summer	1.453	0.0	267.3	2920
7200 min Summer	1.222	0.0	281.1	3672
8640 min Summer	1.067	0.0	294.5	4400
10080 min Summer	0.956	0.0	307.9	5144
15 min Winter	149.405	0.0	70.2	16
30 min Winter	97.472	0.0	92.1	25
60 min Winter	60.820	0.0	115.5	44
120 min Winter	36.554	0.0	139.2	78
180 min Winter	26.928	0.0	154.0	110
240 min Winter	21.556	0.0	164.5	142



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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	84.123	0.024	18.1	46.8	O K
480 min Winter	84.120	0.021	14.7	41.4	O K
600 min Winter	84.118	0.019	12.6	37.3	O K
720 min Winter	84.117	0.018	11.1	34.1	O K
960 min Winter	84.114	0.015	8.7	29.6	O K
1440 min Winter	84.111	0.012	6.1	24.2	O K
2160 min Winter	84.109	0.010	4.5	19.4	O K
2880 min Winter	84.108	0.009	3.5	16.5	O K
4320 min Winter	84.106	0.007	2.5	13.6	O K
5760 min Winter	84.105	0.006	1.9	11.8	O K
7200 min Winter	84.105	0.006	1.7	10.7	O K
8640 min Winter	84.104	0.005	1.4	10.1	O K
10080 min Winter	84.104	0.005	1.4	9.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	15.584	0.0	178.5	204
480 min Winter	12.284	0.0	187.7	268
600 min Winter	10.177	0.0	194.5	330
720 min Winter	8.708	0.0	199.7	390
960 min Winter	6.785	0.0	207.6	514
1440 min Winter	4.749	0.0	218.0	768
2160 min Winter	3.318	0.0	228.6	1108
2880 min Winter	2.582	0.0	237.2	1468
4320 min Winter	1.834	0.0	253.0	2136
5760 min Winter	1.453	0.0	267.3	2952
7200 min Winter	1.222	0.0	281.0	3576
8640 min Winter	1.067	0.0	294.5	4496
10080 min Winter	0.956	0.0	307.9	4960

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### Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

### Time Area Diagram

Total Area (ha) 0.193

Time (mins)	Area
From:	To: (ha)

0	4 0.193
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Model Details

Storage is Online Cover Level (m) 84.580

Tank or Pond Structure

Invert Level (m) 84.099

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	1934.0	0.048	1934.0

Weir Overflow Control

Discharge Coef 0.544 Width (m) 3.000 Invert Level (m) 84.100

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.406	0.006	1.9	1.6	Flood Risk
30 min Summer	84.407	0.007	2.2	1.8	Flood Risk
60 min Summer	84.407	0.007	2.2	1.7	Flood Risk
120 min Summer	84.406	0.006	1.9	1.6	Flood Risk
180 min Summer	84.406	0.006	1.7	1.5	Flood Risk
240 min Summer	84.405	0.005	1.4	1.4	Flood Risk
360 min Summer	84.405	0.005	1.2	1.2	Flood Risk
480 min Summer	84.404	0.004	0.9	1.1	Flood Risk
600 min Summer	84.404	0.004	0.9	1.1	Flood Risk
720 min Summer	84.404	0.004	0.7	0.9	Flood Risk
960 min Summer	84.403	0.003	0.5	0.9	Flood Risk
1440 min Summer	84.403	0.003	0.5	0.8	Flood Risk
2160 min Summer	84.403	0.003	0.4	0.7	Flood Risk
2880 min Summer	84.402	0.002	0.2	0.6	Flood Risk
4320 min Summer	84.402	0.002	0.2	0.5	Flood Risk
5760 min Summer	84.402	0.002	0.2	0.5	Flood Risk
7200 min Summer	84.402	0.002	0.2	0.5	Flood Risk
8640 min Summer	84.402	0.002	0.2	0.5	Flood Risk
10080 min Summer	84.402	0.002	0.1	0.5	Flood Risk
15 min Winter	84.406	0.006	1.9	1.6	Flood Risk
30 min Winter	84.407	0.007	2.2	1.7	Flood Risk
60 min Winter	84.406	0.006	1.7	1.6	Flood Risk
120 min Winter	84.406	0.006	1.7	1.4	Flood Risk
180 min Winter	84.405	0.005	1.2	1.3	Flood Risk
240 min Winter	84.405	0.005	1.2	1.2	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	35.940	0.0	2.1	13
30 min Summer	22.822	0.0	2.7	21
60 min Summer	14.078	0.0	3.4	36
120 min Summer	9.627	0.0	4.7	68
180 min Summer	7.475	0.0	5.6	98
240 min Summer	6.162	0.0	6.1	128
360 min Summer	4.600	0.0	6.9	188
480 min Summer	3.694	0.0	7.4	250
600 min Summer	3.102	0.0	7.8	316
720 min Summer	2.682	0.0	8.1	368
960 min Summer	2.123	0.0	8.6	498
1440 min Summer	1.527	0.0	9.3	740
2160 min Summer	1.107	0.0	10.1	1072
2880 min Summer	0.888	0.0	10.8	1496
4320 min Summer	0.664	0.0	12.2	2176
5760 min Summer	0.548	0.0	13.4	3144
7200 min Summer	0.477	0.0	14.6	3552
8640 min Summer	0.429	0.0	15.8	4440
10080 min Summer	0.394	0.0	17.0	5144
15 min Winter	35.940	0.0	2.1	13
30 min Winter	22.822	0.0	2.7	22
60 min Winter	14.078	0.0	3.4	40
120 min Winter	9.627	0.0	4.7	72
180 min Winter	7.475	0.0	5.6	104
240 min Winter	6.162	0.0	6.1	126

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Summary of Results for 2 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.404	0.004	0.9	1.1	Flood Risk
480 min Winter	84.404	0.004	0.7	0.9	Flood Risk
600 min Winter	84.403	0.003	0.5	0.8	Flood Risk
720 min Winter	84.403	0.003	0.5	0.8	Flood Risk
960 min Winter	84.403	0.003	0.4	0.7	Flood Risk
1440 min Winter	84.403	0.003	0.4	0.7	Flood Risk
2160 min Winter	84.402	0.002	0.2	0.5	Flood Risk
2880 min Winter	84.402	0.002	0.2	0.5	Flood Risk
4320 min Winter	84.402	0.002	0.2	0.5	Flood Risk
5760 min Winter	84.402	0.002	0.1	0.4	Flood Risk
7200 min Winter	84.402	0.002	0.1	0.4	Flood Risk
8640 min Winter	84.402	0.002	0.1	0.4	Flood Risk
10080 min Winter	84.402	0.002	0.1	0.4	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	4.600	0.0	6.9	194
480 min Winter	3.694	0.0	7.4	244
600 min Winter	3.102	0.0	7.8	318
720 min Winter	2.682	0.0	8.1	348
960 min Winter	2.123	0.0	8.6	508
1440 min Winter	1.527	0.0	9.3	734
2160 min Winter	1.107	0.0	10.1	1104
2880 min Winter	0.888	0.0	10.8	1420
4320 min Winter	0.664	0.0	12.2	2384
5760 min Winter	0.548	0.0	13.4	2832
7200 min Winter	0.477	0.0	14.6	3504
8640 min Winter	0.429	0.0	15.8	4200
10080 min Winter	0.394	0.0	17.0	4984

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.413	0.013	6.5	3.3	Flood Risk
30 min Summer	84.413	0.013	6.9	3.4	Flood Risk
60 min Summer	84.412	0.012	5.7	3.2	Flood Risk
120 min Summer	84.410	0.010	4.5	2.7	Flood Risk
180 min Summer	84.409	0.009	3.5	2.3	Flood Risk
240 min Summer	84.408	0.008	3.2	2.1	Flood Risk
360 min Summer	84.407	0.007	2.2	1.8	Flood Risk
480 min Summer	84.406	0.006	1.9	1.6	Flood Risk
600 min Summer	84.406	0.006	1.7	1.4	Flood Risk
720 min Summer	84.405	0.005	1.4	1.3	Flood Risk
960 min Summer	84.405	0.005	1.2	1.2	Flood Risk
1440 min Summer	84.404	0.004	0.7	1.0	Flood Risk
2160 min Summer	84.403	0.003	0.5	0.8	Flood Risk
2880 min Summer	84.403	0.003	0.5	0.8	Flood Risk
4320 min Summer	84.403	0.003	0.4	0.7	Flood Risk
5760 min Summer	84.402	0.002	0.2	0.6	Flood Risk
7200 min Summer	84.402	0.002	0.2	0.6	Flood Risk
8640 min Summer	84.402	0.002	0.2	0.5	Flood Risk
10080 min Summer	84.402	0.002	0.2	0.5	Flood Risk
15 min Winter	84.412	0.012	6.1	3.2	Flood Risk
30 min Winter	84.412	0.012	6.1	3.2	Flood Risk
60 min Winter	84.411	0.011	4.9	2.8	Flood Risk
120 min Winter	84.409	0.009	3.5	2.2	Flood Risk
180 min Winter	84.407	0.007	2.5	2.0	Flood Risk
240 min Winter	84.407	0.007	2.2	1.7	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	83.255	0.0	5.2	12
30 min Summer	53.786	0.0	6.7	20
60 min Summer	33.433	0.0	8.4	36
120 min Summer	20.390	0.0	10.3	66
180 min Summer	15.113	0.0	11.5	98
240 min Summer	12.136	0.0	12.4	126
360 min Summer	8.798	0.0	13.5	188
480 min Summer	6.947	0.0	14.2	246
600 min Summer	5.763	0.0	14.7	308
720 min Summer	4.936	0.0	15.1	362
960 min Summer	3.852	0.0	15.8	486
1440 min Summer	2.710	0.0	16.6	736
2160 min Summer	1.913	0.0	17.6	1068
2880 min Summer	1.502	0.0	18.5	1500
4320 min Summer	1.084	0.0	20.0	2268
5760 min Summer	0.870	0.0	21.5	2952
7200 min Summer	0.740	0.0	22.8	3664
8640 min Summer	0.652	0.0	24.2	4248
10080 min Summer	0.589	0.0	25.5	4824
15 min Winter	83.255	0.0	5.1	13
30 min Winter	53.786	0.0	6.7	21
60 min Winter	33.433	0.0	8.4	38
120 min Winter	20.390	0.0	10.3	66
180 min Winter	15.113	0.0	11.5	100
240 min Winter	12.136	0.0	12.4	124

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Summary of Results for 30 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.406	0.006	1.7	1.4	Flood Risk
480 min Winter	84.405	0.005	1.4	1.3	Flood Risk
600 min Winter	84.405	0.005	1.2	1.2	Flood Risk
720 min Winter	84.404	0.004	0.9	1.1	Flood Risk
960 min Winter	84.404	0.004	0.7	0.9	Flood Risk
1440 min Winter	84.403	0.003	0.5	0.8	Flood Risk
2160 min Winter	84.403	0.003	0.4	0.7	Flood Risk
2880 min Winter	84.403	0.003	0.4	0.7	Flood Risk
4320 min Winter	84.402	0.002	0.2	0.5	Flood Risk
5760 min Winter	84.402	0.002	0.2	0.5	Flood Risk
7200 min Winter	84.402	0.002	0.2	0.5	Flood Risk
8640 min Winter	84.402	0.002	0.2	0.5	Flood Risk
10080 min Winter	84.402	0.002	0.1	0.4	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	8.798	0.0	13.5	202
480 min Winter	6.947	0.0	14.2	254
600 min Winter	5.763	0.0	14.7	314
720 min Winter	4.936	0.0	15.1	358
960 min Winter	3.852	0.0	15.8	472
1440 min Winter	2.710	0.0	16.6	742
2160 min Winter	1.913	0.0	17.6	1064
2880 min Winter	1.502	0.0	18.5	1628
4320 min Winter	1.084	0.0	20.0	2164
5760 min Winter	0.870	0.0	21.5	2920
7200 min Winter	0.740	0.0	22.8	3448
8640 min Winter	0.652	0.0	24.2	4440
10080 min Winter	0.589	0.0	25.5	5248

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.415	0.015	8.7	4.0	Flood Risk
30 min Summer	84.416	0.016	9.2	4.2	Flood Risk
60 min Summer	84.414	0.014	7.8	3.8	Flood Risk
120 min Summer	84.412	0.012	5.7	3.1	Flood Risk
180 min Summer	84.410	0.010	4.5	2.7	Flood Risk
240 min Summer	84.409	0.009	3.8	2.4	Flood Risk
360 min Summer	84.408	0.008	2.8	2.1	Flood Risk
480 min Summer	84.407	0.007	2.2	1.8	Flood Risk
600 min Summer	84.406	0.006	1.9	1.7	Flood Risk
720 min Summer	84.406	0.006	1.7	1.5	Flood Risk
960 min Summer	84.405	0.005	1.4	1.3	Flood Risk
1440 min Summer	84.404	0.004	0.9	1.1	Flood Risk
2160 min Summer	84.404	0.004	0.7	0.9	Flood Risk
2880 min Summer	84.403	0.003	0.5	0.8	Flood Risk
4320 min Summer	84.403	0.003	0.4	0.7	Flood Risk
5760 min Summer	84.403	0.003	0.4	0.7	Flood Risk
7200 min Summer	84.403	0.003	0.4	0.7	Flood Risk
8640 min Summer	84.402	0.002	0.2	0.6	Flood Risk
10080 min Summer	84.402	0.002	0.2	0.5	Flood Risk
15 min Winter	84.415	0.015	8.2	3.9	Flood Risk
30 min Winter	84.415	0.015	8.2	3.9	Flood Risk
60 min Winter	84.413	0.013	6.5	3.4	Flood Risk
120 min Winter	84.410	0.010	4.5	2.6	Flood Risk
180 min Winter	84.409	0.009	3.5	2.2	Flood Risk
240 min Winter	84.408	0.008	2.8	2.0	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	106.718	0.0	6.7	12
30 min Summer	69.623	0.0	8.8	20
60 min Summer	43.443	0.0	11.0	36
120 min Summer	26.110	0.0	13.3	66
180 min Summer	19.234	0.0	14.7	96
240 min Summer	15.397	0.0	15.8	126
360 min Summer	11.131	0.0	17.1	188
480 min Summer	8.775	0.0	18.0	250
600 min Summer	7.269	0.0	18.6	308
720 min Summer	6.220	0.0	19.1	370
960 min Summer	4.847	0.0	19.9	486
1440 min Summer	3.392	0.0	20.9	734
2160 min Summer	2.370	0.0	21.9	1068
2880 min Summer	1.844	0.0	22.8	1436
4320 min Summer	1.310	0.0	24.3	2128
5760 min Summer	1.038	0.0	25.6	2976
7200 min Summer	0.873	0.0	27.0	3680
8640 min Summer	0.762	0.0	28.3	4256
10080 min Summer	0.683	0.0	29.6	5104
15 min Winter	106.718	0.0	6.7	13
30 min Winter	69.623	0.0	8.8	21
60 min Winter	43.443	0.0	11.0	36
120 min Winter	26.110	0.0	13.3	66
180 min Winter	19.234	0.0	14.7	98
240 min Winter	15.397	0.0	15.8	126



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Summary of Results for 100 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.406	0.006	1.9	1.7	Flood Risk
480 min Winter	84.406	0.006	1.7	1.5	Flood Risk
600 min Winter	84.405	0.005	1.4	1.3	Flood Risk
720 min Winter	84.405	0.005	1.2	1.2	Flood Risk
960 min Winter	84.404	0.004	0.9	1.1	Flood Risk
1440 min Winter	84.404	0.004	0.7	0.9	Flood Risk
2160 min Winter	84.403	0.003	0.5	0.8	Flood Risk
2880 min Winter	84.403	0.003	0.4	0.7	Flood Risk
4320 min Winter	84.403	0.003	0.4	0.7	Flood Risk
5760 min Winter	84.402	0.002	0.2	0.5	Flood Risk
7200 min Winter	84.402	0.002	0.2	0.5	Flood Risk
8640 min Winter	84.402	0.002	0.2	0.5	Flood Risk
10080 min Winter	84.402	0.002	0.2	0.5	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	11.131	0.0	17.1	192
480 min Winter	8.775	0.0	18.0	238
600 min Winter	7.269	0.0	18.6	306
720 min Winter	6.220	0.0	19.1	358
960 min Winter	4.847	0.0	19.9	486
1440 min Winter	3.392	0.0	20.9	746
2160 min Winter	2.370	0.0	21.9	1092
2880 min Winter	1.844	0.0	22.8	1368
4320 min Winter	1.310	0.0	24.3	2224
5760 min Winter	1.038	0.0	25.6	2888
7200 min Winter	0.873	0.0	27.0	4112
8640 min Winter	0.762	0.0	28.3	4328
10080 min Winter	0.683	0.0	29.6	5448

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.420	0.020	13.7	5.3	Flood Risk
30 min Summer	84.421	0.021	14.2	5.4	Flood Risk
60 min Summer	84.418	0.018	11.6	4.7	Flood Risk
120 min Summer	84.415	0.015	8.7	3.9	Flood Risk
180 min Summer	84.413	0.013	6.5	3.4	Flood Risk
240 min Summer	84.411	0.011	5.3	3.0	Flood Risk
360 min Summer	84.410	0.010	4.2	2.5	Flood Risk
480 min Summer	84.409	0.009	3.5	2.2	Flood Risk
600 min Summer	84.408	0.008	2.8	2.0	Flood Risk
720 min Summer	84.407	0.007	2.5	1.8	Flood Risk
960 min Summer	84.406	0.006	1.9	1.6	Flood Risk
1440 min Summer	84.405	0.005	1.4	1.3	Flood Risk
2160 min Summer	84.404	0.004	0.9	1.1	Flood Risk
2880 min Summer	84.404	0.004	0.7	0.9	Flood Risk
4320 min Summer	84.403	0.003	0.5	0.8	Flood Risk
5760 min Summer	84.403	0.003	0.5	0.8	Flood Risk
7200 min Summer	84.403	0.003	0.4	0.7	Flood Risk
8640 min Summer	84.403	0.003	0.4	0.7	Flood Risk
10080 min Summer	84.403	0.003	0.4	0.7	Flood Risk
15 min Winter	84.420	0.020	13.1	5.1	Flood Risk
30 min Winter	84.419	0.019	12.1	5.0	Flood Risk
60 min Winter	84.416	0.016	9.2	4.2	Flood Risk
120 min Winter	84.412	0.012	6.1	3.2	Flood Risk
180 min Winter	84.411	0.011	4.9	2.8	Flood Risk
240 min Winter	84.409	0.009	3.8	2.4	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	9.4	12
30 min Summer	97.472	0.0	12.4	20
60 min Summer	60.820	0.0	15.6	36
120 min Summer	36.554	0.0	18.7	66
180 min Summer	26.928	0.0	20.7	96
240 min Summer	21.556	0.0	22.2	126
360 min Summer	15.584	0.0	24.0	186
480 min Summer	12.284	0.0	25.3	250
600 min Summer	10.177	0.0	26.2	306
720 min Summer	8.708	0.0	26.9	368
960 min Summer	6.785	0.0	28.0	482
1440 min Summer	4.749	0.0	29.4	730
2160 min Summer	3.318	0.0	30.8	1060
2880 min Summer	2.582	0.0	32.0	1424
4320 min Summer	1.834	0.0	34.1	2160
5760 min Summer	1.453	0.0	36.0	2880
7200 min Summer	1.222	0.0	37.9	3608
8640 min Summer	1.067	0.0	39.7	4424
10080 min Summer	0.956	0.0	41.5	4992
15 min Winter	149.405	0.0	9.4	12
30 min Winter	97.472	0.0	12.4	20
60 min Winter	60.820	0.0	15.6	36
120 min Winter	36.554	0.0	18.7	68
180 min Winter	26.928	0.0	20.7	98
240 min Winter	21.556	0.0	22.2	128

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	84.408	0.008	2.8	2.0	Flood Risk
480 min Winter	84.407	0.007	2.2	1.7	Flood Risk
600 min Winter	84.406	0.006	1.9	1.6	Flood Risk
720 min Winter	84.406	0.006	1.7	1.5	Flood Risk
960 min Winter	84.405	0.005	1.4	1.3	Flood Risk
1440 min Winter	84.404	0.004	0.9	1.1	Flood Risk
2160 min Winter	84.404	0.004	0.7	0.9	Flood Risk
2880 min Winter	84.403	0.003	0.5	0.8	Flood Risk
4320 min Winter	84.403	0.003	0.4	0.7	Flood Risk
5760 min Winter	84.403	0.003	0.4	0.7	Flood Risk
7200 min Winter	84.402	0.002	0.2	0.6	Flood Risk
8640 min Winter	84.402	0.002	0.2	0.6	Flood Risk
10080 min Winter	84.402	0.002	0.2	0.5	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	15.584	0.0	24.0	194
480 min Winter	12.284	0.0	25.3	246
600 min Winter	10.177	0.0	26.2	304
720 min Winter	8.708	0.0	26.9	364
960 min Winter	6.785	0.0	28.0	500
1440 min Winter	4.749	0.0	29.4	724
2160 min Winter	3.318	0.0	30.8	1156
2880 min Winter	2.582	0.0	32.0	1472
4320 min Winter	1.834	0.0	34.1	2236
5760 min Winter	1.453	0.0	36.0	2896
7200 min Winter	1.222	0.0	37.9	3520
8640 min Winter	1.067	0.0	39.7	4288
10080 min Winter	0.956	0.0	41.5	5072

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### Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

### Time Area Diagram

Total Area (ha) 0.026

Time (mins)	Area
From:	To: (ha)

0	4	0.026
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Model Details

Storage is Online Cover Level (m) 84.550

Tank or Pond Structure

Invert Level (m) 84.400

**Depth (m) Area (m<sup>2</sup>)**

0.000 262.0

Weir Overflow Control

Discharge Coef 0.544 Width (m) 3.000 Invert Level (m) 84.401

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Summary of Results for 2 year Return Period

Outflow is too low. Design is unsatisfactory.

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.009	0.009	0.0	4.7	Flood Risk
30 min Summer	84.011	0.011	0.0	5.9	Flood Risk
60 min Summer	84.014	0.014	0.0	7.3	Flood Risk
120 min Summer	84.019	0.019	0.0	10.0	Flood Risk
180 min Summer	84.023	0.023	0.0	11.7	Flood Risk
240 min Summer	84.025	0.025	0.0	12.8	Flood Risk
360 min Summer	84.028	0.028	0.0	14.4	Flood Risk
480 min Summer	84.030	0.030	0.0	15.4	Flood Risk
600 min Summer	84.031	0.031	0.0	16.1	Flood Risk
720 min Summer	84.032	0.032	0.0	16.7	Flood Risk
960 min Summer	84.034	0.034	0.0	17.7	Flood Risk
1440 min Summer	84.037	0.037	0.0	19.1	Flood Risk
2160 min Summer	84.040	0.040	0.0	20.7	Flood Risk
2880 min Summer	84.043	0.043	0.0	22.2	Flood Risk
4320 min Summer	84.048	0.048	0.0	24.8	Flood Risk
5760 min Summer	84.053	0.053	0.0	27.3	Flood Risk
7200 min Summer	84.058	0.058	0.0	29.8	Flood Risk
8640 min Summer	84.062	0.062	0.0	32.1	Flood Risk
10080 min Summer	84.067	0.067	0.0	34.4	Flood Risk
15 min Winter	84.009	0.009	0.0	4.7	Flood Risk
30 min Winter	84.011	0.011	0.0	5.9	Flood Risk
60 min Winter	84.014	0.014	0.0	7.3	Flood Risk
120 min Winter	84.019	0.019	0.0	10.0	Flood Risk
180 min Winter	84.023	0.023	0.0	11.7	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	35.940	0.0	0.0	19
30 min Summer	22.822	0.0	0.0	34
60 min Summer	14.078	0.0	0.0	64
120 min Summer	9.627	0.0	0.0	124
180 min Summer	7.475	0.0	0.0	184
240 min Summer	6.162	0.0	0.0	244
360 min Summer	4.600	0.0	0.0	364
480 min Summer	3.694	0.0	0.0	484
600 min Summer	3.102	0.0	0.0	604
720 min Summer	2.682	0.0	0.0	724
960 min Summer	2.123	0.0	0.0	964
1440 min Summer	1.527	0.0	0.0	1444
2160 min Summer	1.107	0.0	0.0	2164
2880 min Summer	0.888	0.0	0.0	2884
4320 min Summer	0.664	0.0	0.0	4324
5760 min Summer	0.548	0.0	0.0	5768
7200 min Summer	0.477	0.0	0.0	7208
8640 min Summer	0.429	0.0	0.0	8648
10080 min Summer	0.394	0.0	0.0	10088
15 min Winter	35.940	0.0	0.0	19
30 min Winter	22.822	0.0	0.0	34
60 min Winter	14.078	0.0	0.0	64
120 min Winter	9.627	0.0	0.0	124
180 min Winter	7.475	0.0	0.0	184

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Summary of Results for 2 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
240 min Winter	84.025	0.025	0.0	12.8	Flood Risk
360 min Winter	84.028	0.028	0.0	14.4	Flood Risk
480 min Winter	84.030	0.030	0.0	15.4	Flood Risk
600 min Winter	84.031	0.031	0.0	16.1	Flood Risk
720 min Winter	84.032	0.032	0.0	16.7	Flood Risk
960 min Winter	84.034	0.034	0.0	17.7	Flood Risk
1440 min Winter	84.037	0.037	0.0	19.1	Flood Risk
2160 min Winter	84.040	0.040	0.0	20.7	Flood Risk
2880 min Winter	84.043	0.043	0.0	22.2	Flood Risk
4320 min Winter	84.048	0.048	0.0	24.8	Flood Risk
5760 min Winter	84.053	0.053	0.0	27.3	Flood Risk
7200 min Winter	84.058	0.058	0.0	29.8	Flood Risk
8640 min Winter	84.062	0.062	0.0	32.1	Flood Risk
10080 min Winter	84.067	0.067	0.0	34.4	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
240 min Winter	6.162	0.0	0.0	244
360 min Winter	4.600	0.0	0.0	364
480 min Winter	3.694	0.0	0.0	484
600 min Winter	3.102	0.0	0.0	604
720 min Winter	2.682	0.0	0.0	724
960 min Winter	2.123	0.0	0.0	964
1440 min Winter	1.527	0.0	0.0	1444
2160 min Winter	1.107	0.0	0.0	2164
2880 min Winter	0.888	0.0	0.0	2884
4320 min Winter	0.664	0.0	0.0	4324
5760 min Winter	0.548	0.0	0.0	5768
7200 min Winter	0.477	0.0	0.0	7208
8640 min Winter	0.429	0.0	0.0	8648
10080 min Winter	0.394	0.0	0.0	10088

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Summary of Results for 30 year Return Period

Outflow is too low. Design is unsatisfactory.

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.021	0.021	0.0	10.8	Flood Risk
30 min Summer	84.027	0.027	0.0	14.0	Flood Risk
60 min Summer	84.034	0.034	0.0	17.4	Flood Risk
120 min Summer	84.041	0.041	0.0	21.2	Flood Risk
180 min Summer	84.046	0.046	0.0	23.6	Flood Risk
240 min Summer	84.049	0.049	0.0	25.2	Flood Risk
360 min Summer	84.053	0.053	0.0	27.5	Flood Risk
480 min Summer	84.056	0.056	0.0	28.9	Flood Risk
600 min Summer	84.058	0.058	0.0	30.0	Flood Risk
720 min Summer	84.060	0.060	0.0	30.8	Flood Risk
960 min Summer	84.062	0.062	0.0	32.0	Flood Risk
1440 min Summer	84.066	0.066	0.0	33.8	Flood Risk
2160 min Summer	84.069	0.069	0.0	35.8	Flood Risk
2880 min Summer	84.073	0.073	0.0	37.5	Flood Risk
4320 min Summer	84.079	0.079	0.0	40.6	Flood Risk
5760 min Summer	84.084	0.084	0.0	43.4	Flood Risk
7200 min Summer	84.089	0.089	0.0	46.2	Flood Risk
8640 min Summer	84.095	0.095	0.0	48.8	Flood Risk
10080 min Summer	84.100	0.100	0.0	51.5	Flood Risk
15 min Winter	84.021	0.021	0.0	10.8	Flood Risk
30 min Winter	84.027	0.027	0.0	14.0	Flood Risk
60 min Winter	84.034	0.034	0.0	17.4	Flood Risk
120 min Winter	84.041	0.041	0.0	21.2	Flood Risk
180 min Winter	84.046	0.046	0.0	23.6	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	83.255	0.0	0.0	19
30 min Summer	53.786	0.0	0.0	34
60 min Summer	33.433	0.0	0.0	64
120 min Summer	20.390	0.0	0.0	124
180 min Summer	15.113	0.0	0.0	184
240 min Summer	12.136	0.0	0.0	244
360 min Summer	8.798	0.0	0.0	364
480 min Summer	6.947	0.0	0.0	484
600 min Summer	5.763	0.0	0.0	604
720 min Summer	4.936	0.0	0.0	724
960 min Summer	3.852	0.0	0.0	964
1440 min Summer	2.710	0.0	0.0	1444
2160 min Summer	1.913	0.0	0.0	2164
2880 min Summer	1.502	0.0	0.0	2884
4320 min Summer	1.084	0.0	0.0	4324
5760 min Summer	0.870	0.0	0.0	5768
7200 min Summer	0.740	0.0	0.0	7208
8640 min Summer	0.652	0.0	0.0	8648
10080 min Summer	0.589	0.0	0.0	10088
15 min Winter	83.255	0.0	0.0	19
30 min Winter	53.786	0.0	0.0	34
60 min Winter	33.433	0.0	0.0	64
120 min Winter	20.390	0.0	0.0	124
180 min Winter	15.113	0.0	0.0	184



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Summary of Results for 30 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
240 min Winter	84.049	0.049	0.0	25.2	Flood Risk
360 min Winter	84.053	0.053	0.0	27.5	Flood Risk
480 min Winter	84.056	0.056	0.0	28.9	Flood Risk
600 min Winter	84.058	0.058	0.0	30.0	Flood Risk
720 min Winter	84.060	0.060	0.0	30.8	Flood Risk
960 min Winter	84.062	0.062	0.0	32.0	Flood Risk
1440 min Winter	84.066	0.066	0.0	33.8	Flood Risk
2160 min Winter	84.069	0.069	0.0	35.8	Flood Risk
2880 min Winter	84.073	0.073	0.0	37.5	Flood Risk
4320 min Winter	84.079	0.079	0.0	40.6	Flood Risk
5760 min Winter	84.084	0.084	0.0	43.4	Flood Risk
7200 min Winter	84.089	0.089	0.0	46.2	Flood Risk
8640 min Winter	84.095	0.095	0.0	48.8	Flood Risk
10080 min Winter	84.100	0.100	0.0	51.5	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
240 min Winter	12.136	0.0	0.0	244
360 min Winter	8.798	0.0	0.0	364
480 min Winter	6.947	0.0	0.0	484
600 min Winter	5.763	0.0	0.0	604
720 min Winter	4.936	0.0	0.0	724
960 min Winter	3.852	0.0	0.0	964
1440 min Winter	2.710	0.0	0.0	1444
2160 min Winter	1.913	0.0	0.0	2164
2880 min Winter	1.502	0.0	0.0	2884
4320 min Winter	1.084	0.0	0.0	4324
5760 min Winter	0.870	0.0	0.0	5768
7200 min Winter	0.740	0.0	0.0	7208
8640 min Winter	0.652	0.0	0.0	8648
10080 min Winter	0.589	0.0	0.0	10088

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.027	0.027	0.0	13.9	Flood Risk
30 min Summer	84.035	0.035	0.0	18.1	Flood Risk
60 min Summer	84.044	0.044	0.0	22.6	Flood Risk
120 min Summer	84.053	0.053	0.0	27.2	Flood Risk
180 min Summer	84.058	0.058	0.0	30.0	Flood Risk
240 min Summer	84.062	0.062	0.0	32.0	Flood Risk
360 min Summer	84.067	0.067	0.0	34.7	Flood Risk
480 min Summer	84.071	0.071	0.0	36.5	Flood Risk
600 min Summer	84.073	0.073	0.0	37.8	Flood Risk
720 min Summer	84.075	0.075	0.0	38.8	Flood Risk
960 min Summer	84.078	0.078	0.0	40.3	Flood Risk
1440 min Summer	84.082	0.082	0.0	42.3	Flood Risk
2160 min Summer	84.086	0.086	0.0	44.4	Flood Risk
2880 min Summer	84.089	0.089	0.0	46.0	Flood Risk
4320 min Summer	84.095	0.095	0.0	49.1	Flood Risk
5760 min Summer	84.100	0.100	0.0	51.7	Flood Risk
7200 min Summer	84.101	0.101	0.1	51.9	Flood Risk
8640 min Summer	84.101	0.101	0.1	51.9	Flood Risk
10080 min Summer	84.101	0.101	0.1	51.9	Flood Risk
15 min Winter	84.027	0.027	0.0	13.9	Flood Risk
30 min Winter	84.035	0.035	0.0	18.1	Flood Risk
60 min Winter	84.044	0.044	0.0	22.6	Flood Risk
120 min Winter	84.053	0.053	0.0	27.2	Flood Risk
180 min Winter	84.058	0.058	0.0	30.0	Flood Risk
240 min Winter	84.062	0.062	0.0	32.0	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	106.718	0.0	0.0	19
30 min Summer	69.623	0.0	0.0	34
60 min Summer	43.443	0.0	0.0	64
120 min Summer	26.110	0.0	0.0	124
180 min Summer	19.234	0.0	0.0	184
240 min Summer	15.397	0.0	0.0	244
360 min Summer	11.131	0.0	0.0	364
480 min Summer	8.775	0.0	0.0	484
600 min Summer	7.269	0.0	0.0	604
720 min Summer	6.220	0.0	0.0	724
960 min Summer	4.847	0.0	0.0	964
1440 min Summer	3.392	0.0	0.0	1444
2160 min Summer	2.370	0.0	0.0	2164
2880 min Summer	1.844	0.0	0.0	2884
4320 min Summer	1.310	0.0	0.0	4324
5760 min Summer	1.038	0.0	0.2	5768
7200 min Summer	0.873	0.0	2.9	6496
8640 min Summer	0.762	0.0	5.5	8592
10080 min Summer	0.683	0.0	8.0	7672
15 min Winter	106.718	0.0	0.0	19
30 min Winter	69.623	0.0	0.0	34
60 min Winter	43.443	0.0	0.0	64
120 min Winter	26.110	0.0	0.0	124
180 min Winter	19.234	0.0	0.0	184
240 min Winter	15.397	0.0	0.0	244

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Summary of Results for 100 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.067	0.067	0.0	34.7	Flood Risk
480 min Winter	84.071	0.071	0.0	36.5	Flood Risk
600 min Winter	84.073	0.073	0.0	37.8	Flood Risk
720 min Winter	84.075	0.075	0.0	38.8	Flood Risk
960 min Winter	84.078	0.078	0.0	40.3	Flood Risk
1440 min Winter	84.082	0.082	0.0	42.3	Flood Risk
2160 min Winter	84.086	0.086	0.0	44.4	Flood Risk
2880 min Winter	84.089	0.089	0.0	46.0	Flood Risk
4320 min Winter	84.095	0.095	0.0	49.1	Flood Risk
5760 min Winter	84.100	0.100	0.0	51.6	Flood Risk
7200 min Winter	84.101	0.101	0.1	51.9	Flood Risk
8640 min Winter	84.101	0.101	0.1	51.9	Flood Risk
10080 min Winter	84.101	0.101	0.1	51.9	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	11.131	0.0	0.0	364
480 min Winter	8.775	0.0	0.0	484
600 min Winter	7.269	0.0	0.0	604
720 min Winter	6.220	0.0	0.0	724
960 min Winter	4.847	0.0	0.0	964
1440 min Winter	3.392	0.0	0.0	1444
2160 min Winter	2.370	0.0	0.0	2164
2880 min Winter	1.844	0.0	0.0	2884
4320 min Winter	1.310	0.0	0.0	4324
5760 min Winter	1.038	0.0	0.2	5656
7200 min Winter	0.873	0.0	2.9	6672
8640 min Winter	0.762	0.0	5.5	8104
10080 min Winter	0.683	0.0	8.0	7232

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.038	0.038	0.0	19.4	Flood Risk
30 min Summer	84.049	0.049	0.0	25.3	Flood Risk
60 min Summer	84.061	0.061	0.0	31.6	Flood Risk
120 min Summer	84.074	0.074	0.0	38.0	Flood Risk
180 min Summer	84.081	0.081	0.0	42.0	Flood Risk
240 min Summer	84.087	0.087	0.0	44.8	Flood Risk
360 min Summer	84.094	0.094	0.0	48.6	Flood Risk
480 min Summer	84.099	0.099	0.0	51.1	Flood Risk
600 min Summer	84.102	0.102	0.4	52.4	Flood Risk
720 min Summer	84.102	0.102	0.4	52.6	Flood Risk
960 min Summer	84.102	0.102	0.4	52.5	Flood Risk
1440 min Summer	84.102	0.102	0.4	52.4	Flood Risk
2160 min Summer	84.102	0.102	0.4	52.4	Flood Risk
2880 min Summer	84.102	0.102	0.4	52.4	Flood Risk
4320 min Summer	84.102	0.102	0.4	52.5	Flood Risk
5760 min Summer	84.102	0.102	0.4	52.5	Flood Risk
7200 min Summer	84.102	0.102	0.4	52.5	Flood Risk
8640 min Summer	84.102	0.102	0.4	52.5	Flood Risk
10080 min Summer	84.102	0.102	0.4	52.4	Flood Risk
15 min Winter	84.038	0.038	0.0	19.4	Flood Risk
30 min Winter	84.049	0.049	0.0	25.3	Flood Risk
60 min Winter	84.061	0.061	0.0	31.6	Flood Risk
120 min Winter	84.074	0.074	0.0	38.0	Flood Risk
180 min Winter	84.081	0.081	0.0	42.0	Flood Risk
240 min Winter	84.087	0.087	0.0	44.8	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	0.0	19
30 min Summer	97.472	0.0	0.0	34
60 min Summer	60.820	0.0	0.0	64
120 min Summer	36.554	0.0	0.0	124
180 min Summer	26.928	0.0	0.0	184
240 min Summer	21.556	0.0	0.0	244
360 min Summer	15.584	0.0	0.0	364
480 min Summer	12.284	0.0	0.0	484
600 min Summer	10.177	0.0	1.3	600
720 min Summer	8.708	0.0	2.7	720
960 min Summer	6.785	0.0	4.9	838
1440 min Summer	4.749	0.0	7.7	1094
2160 min Summer	3.318	0.0	10.5	1488
2880 min Summer	2.582	0.0	12.8	1900
4320 min Summer	1.834	0.0	17.1	2640
5760 min Summer	1.453	0.0	20.9	3400
7200 min Summer	1.222	0.0	24.6	4112
8640 min Summer	1.067	0.0	28.3	4840
10080 min Summer	0.956	0.0	31.9	5544
15 min Winter	149.405	0.0	0.0	19
30 min Winter	97.472	0.0	0.0	34
60 min Winter	60.820	0.0	0.0	64
120 min Winter	36.554	0.0	0.0	124
180 min Winter	26.928	0.0	0.0	184
240 min Winter	21.556	0.0	0.0	244

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	84.094	0.094	0.0	48.6	Flood Risk
480 min Winter	84.099	0.099	0.0	51.1	Flood Risk
600 min Winter	84.102	0.102	0.4	52.4	Flood Risk
<b>720 min Winter</b>	<b>84.102</b>	<b>0.102</b>	<b>0.5</b>	<b>52.6</b>	<b>Flood Risk</b>
960 min Winter	84.102	0.102	0.5	52.6	Flood Risk
1440 min Winter	84.102	0.102	0.4	52.5	Flood Risk
2160 min Winter	84.102	0.102	0.4	52.6	Flood Risk
2880 min Winter	84.102	0.102	0.4	52.6	Flood Risk
4320 min Winter	84.102	0.102	0.4	52.5	Flood Risk
5760 min Winter	84.102	0.102	0.4	52.4	Flood Risk
7200 min Winter	84.102	0.102	0.4	52.4	Flood Risk
8640 min Winter	84.102	0.102	0.4	52.4	Flood Risk
10080 min Winter	84.102	0.102	0.4	52.4	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	15.584	0.0	0.0	364
480 min Winter	12.284	0.0	0.0	484
600 min Winter	10.177	0.0	1.3	584
<b>720 min Winter</b>	<b>8.708</b>	<b>0.0</b>	<b>2.7</b>	<b>676</b>
960 min Winter	6.785	0.0	4.9	858
1440 min Winter	4.749	0.0	7.7	1112
2160 min Winter	3.318	0.0	10.5	1556
2880 min Winter	2.582	0.0	12.8	1988
4320 min Winter	1.834	0.0	17.1	2768
5760 min Winter	1.453	0.0	20.9	3568
7200 min Winter	1.222	0.0	24.7	4216
8640 min Winter	1.067	0.0	28.3	4984
10080 min Winter	0.956	0.0	31.9	5648

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### Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

### Time Area Diagram

Total Area (ha) 0.052

<b>Time (mins)</b>	<b>Area</b>
<b>From: To:</b>	<b>(ha)</b>

0	4	0.052
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Model Details

Storage is Online Cover Level (m) 84.250

Tank or Pond Structure

Invert Level (m) 84.000

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	516.0	0.250	516.0

Weir Overflow Control

Discharge Coef 0.544 Width (m) 3.000 Invert Level (m) 84.100

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	83.872	0.008	2.8	6.2	Flood Risk
30 min Summer	83.873	0.009	3.5	7.0	Flood Risk
60 min Summer	83.873	0.009	3.5	7.4	Flood Risk
120 min Summer	83.874	0.010	4.2	7.9	Flood Risk
180 min Summer	83.873	0.009	3.8	7.7	Flood Risk
240 min Summer	83.873	0.009	3.5	7.4	Flood Risk
360 min Summer	83.872	0.008	3.2	6.6	Flood Risk
480 min Summer	83.871	0.007	2.5	6.1	Flood Risk
600 min Summer	83.871	0.007	2.2	5.6	Flood Risk
720 min Summer	83.870	0.006	1.9	5.3	Flood Risk
960 min Summer	83.870	0.006	1.7	4.7	Flood Risk
1440 min Summer	83.869	0.005	1.2	4.1	Flood Risk
2160 min Summer	83.868	0.004	0.9	3.4	Flood Risk
2880 min Summer	83.868	0.004	0.7	3.1	Flood Risk
4320 min Summer	83.867	0.003	0.5	2.7	Flood Risk
5760 min Summer	83.867	0.003	0.5	2.5	Flood Risk
7200 min Summer	83.867	0.003	0.5	2.5	Flood Risk
8640 min Summer	83.867	0.003	0.4	2.2	Flood Risk
10080 min Summer	83.867	0.003	0.4	2.1	Flood Risk
15 min Winter	83.872	0.008	2.8	6.2	Flood Risk
30 min Winter	83.872	0.008	3.2	7.0	Flood Risk
60 min Winter	83.873	0.009	3.5	7.1	Flood Risk
120 min Winter	83.873	0.009	3.5	7.3	Flood Risk
180 min Winter	83.872	0.008	3.2	6.9	Flood Risk
240 min Winter	83.872	0.008	2.8	6.5	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	35.940	0.0	6.5	15
30 min Summer	22.822	0.0	8.5	24
60 min Summer	14.078	0.0	10.7	40
120 min Summer	9.627	0.0	15.0	72
180 min Summer	7.475	0.0	17.6	104
240 min Summer	6.162	0.0	19.4	136
360 min Summer	4.600	0.0	21.8	194
480 min Summer	3.694	0.0	23.4	258
600 min Summer	3.102	0.0	24.6	320
720 min Summer	2.682	0.0	25.6	382
960 min Summer	2.123	0.0	27.0	500
1440 min Summer	1.527	0.0	29.2	752
2160 min Summer	1.107	0.0	31.9	1104
2880 min Summer	0.888	0.0	34.1	1472
4320 min Summer	0.664	0.0	38.4	2208
5760 min Summer	0.548	0.0	42.3	2936
7200 min Summer	0.477	0.0	46.1	3680
8640 min Summer	0.429	0.0	49.8	4408
10080 min Summer	0.394	0.0	53.5	5104
15 min Winter	35.940	0.0	6.5	16
30 min Winter	22.822	0.0	8.5	25
60 min Winter	14.078	0.0	10.7	42
120 min Winter	9.627	0.0	15.0	76
180 min Winter	7.475	0.0	17.6	110
240 min Winter	6.162	0.0	19.4	142



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Summary of Results for 2 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	83.871	0.007	2.5	5.8	Flood Risk
480 min Winter	83.870	0.006	1.9	5.1	Flood Risk
600 min Winter	83.870	0.006	1.7	4.7	Flood Risk
720 min Winter	83.869	0.005	1.4	4.4	Flood Risk
960 min Winter	83.869	0.005	1.2	3.8	Flood Risk
1440 min Winter	83.868	0.004	0.9	3.3	Flood Risk
2160 min Winter	83.868	0.004	0.7	2.9	Flood Risk
2880 min Winter	83.867	0.003	0.5	2.5	Flood Risk
4320 min Winter	83.867	0.003	0.4	2.1	Flood Risk
5760 min Winter	83.867	0.003	0.4	2.1	Flood Risk
7200 min Winter	83.867	0.003	0.4	2.1	Flood Risk
8640 min Winter	83.867	0.003	0.4	2.1	Flood Risk
10080 min Winter	83.866	0.002	0.2	1.7	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	4.600	0.0	21.8	202
480 min Winter	3.694	0.0	23.4	264
600 min Winter	3.102	0.0	24.6	326
720 min Winter	2.682	0.0	25.6	396
960 min Winter	2.123	0.0	27.0	510
1440 min Winter	1.527	0.0	29.2	734
2160 min Winter	1.107	0.0	31.8	1176
2880 min Winter	0.888	0.0	34.1	1464
4320 min Winter	0.664	0.0	38.4	2248
5760 min Winter	0.548	0.0	42.3	2936
7200 min Winter	0.477	0.0	46.1	3712
8640 min Winter	0.429	0.0	49.8	4448
10080 min Winter	0.394	0.0	53.5	5320

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	83.880	0.016	9.6	13.2	Flood Risk
30 min Summer	83.882	0.018	11.1	14.7	Flood Risk
60 min Summer	83.882	0.018	11.6	14.9	Flood Risk
120 min Summer	83.881	0.017	10.1	13.9	Flood Risk
180 min Summer	83.879	0.015	8.7	12.7	Flood Risk
240 min Summer	83.878	0.014	7.8	11.7	Flood Risk
360 min Summer	83.876	0.012	6.1	10.2	Flood Risk
480 min Summer	83.875	0.011	5.3	9.1	Flood Risk
600 min Summer	83.874	0.010	4.5	8.3	Flood Risk
720 min Summer	83.873	0.009	3.8	7.7	Flood Risk
960 min Summer	83.872	0.008	3.2	6.7	Flood Risk
1440 min Summer	83.871	0.007	2.2	5.6	Flood Risk
2160 min Summer	83.870	0.006	1.7	4.6	Flood Risk
2880 min Summer	83.869	0.005	1.4	4.1	Flood Risk
4320 min Summer	83.868	0.004	0.9	3.4	Flood Risk
5760 min Summer	83.868	0.004	0.7	3.2	Flood Risk
7200 min Summer	83.868	0.004	0.7	2.9	Flood Risk
8640 min Summer	83.867	0.003	0.5	2.9	Flood Risk
10080 min Summer	83.867	0.003	0.5	2.5	Flood Risk
15 min Winter	83.880	0.016	9.6	13.2	Flood Risk
30 min Winter	83.882	0.018	11.1	14.4	Flood Risk
60 min Winter	83.881	0.017	10.6	14.2	Flood Risk
120 min Winter	83.879	0.015	8.7	12.5	Flood Risk
180 min Winter	83.878	0.014	7.4	11.1	Flood Risk
240 min Winter	83.876	0.012	6.1	10.1	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	83.255	0.0	16.2	14
30 min Summer	53.786	0.0	21.2	22
60 min Summer	33.433	0.0	26.6	38
120 min Summer	20.390	0.0	32.6	70
180 min Summer	15.113	0.0	36.4	102
240 min Summer	12.136	0.0	39.0	132
360 min Summer	8.798	0.0	42.5	194
480 min Summer	6.947	0.0	44.8	252
600 min Summer	5.763	0.0	46.4	314
720 min Summer	4.936	0.0	47.8	376
960 min Summer	3.852	0.0	49.7	494
1440 min Summer	2.710	0.0	52.5	738
2160 min Summer	1.913	0.0	55.6	1100
2880 min Summer	1.502	0.0	58.3	1460
4320 min Summer	1.084	0.0	63.2	2204
5760 min Summer	0.870	0.0	67.7	2944
7200 min Summer	0.740	0.0	72.0	3584
8640 min Summer	0.652	0.0	76.2	4416
10080 min Summer	0.589	0.0	80.3	5000
15 min Winter	83.255	0.0	16.2	15
30 min Winter	53.786	0.0	21.2	23
60 min Winter	33.433	0.0	26.6	40
120 min Winter	20.390	0.0	32.6	74
180 min Winter	15.113	0.0	36.4	104
240 min Winter	12.136	0.0	39.0	136

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Summary of Results for 30 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	83.874	0.010	4.5	8.6	Flood Risk
480 min Winter	83.873	0.009	3.8	7.5	Flood Risk
600 min Winter	83.872	0.008	3.2	6.7	Flood Risk
720 min Winter	83.872	0.008	2.8	6.2	Flood Risk
960 min Winter	83.871	0.007	2.2	5.4	Flood Risk
1440 min Winter	83.870	0.006	1.7	4.5	Flood Risk
2160 min Winter	83.869	0.005	1.2	3.7	Flood Risk
2880 min Winter	83.868	0.004	0.9	3.3	Flood Risk
4320 min Winter	83.868	0.004	0.7	2.9	Flood Risk
5760 min Winter	83.867	0.003	0.5	2.5	Flood Risk
7200 min Winter	83.867	0.003	0.5	2.5	Flood Risk
8640 min Winter	83.867	0.003	0.4	2.1	Flood Risk
10080 min Winter	83.867	0.003	0.4	2.1	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	8.798	0.0	42.5	200
480 min Winter	6.947	0.0	44.8	256
600 min Winter	5.763	0.0	46.4	320
720 min Winter	4.936	0.0	47.8	376
960 min Winter	3.852	0.0	49.7	476
1440 min Winter	2.710	0.0	52.5	734
2160 min Winter	1.913	0.0	55.6	1096
2880 min Winter	1.502	0.0	58.3	1436
4320 min Winter	1.084	0.0	63.2	2164
5760 min Winter	0.870	0.0	67.7	2952
7200 min Winter	0.740	0.0	72.0	3568
8640 min Winter	0.652	0.0	76.2	4552
10080 min Winter	0.589	0.0	80.3	5064

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	83.884	0.020	13.7	16.5	Flood Risk
30 min Summer	83.886	0.022	15.8	18.4	Flood Risk
60 min Summer	83.887	0.023	16.4	18.5	Flood Risk
120 min Summer	83.884	0.020	13.7	16.8	Flood Risk
180 min Summer	83.882	0.018	11.6	15.1	Flood Risk
240 min Summer	83.881	0.017	10.1	13.9	Flood Risk
360 min Summer	83.879	0.015	8.2	11.9	Flood Risk
480 min Summer	83.877	0.013	6.5	10.6	Flood Risk
600 min Summer	83.876	0.012	5.7	9.6	Flood Risk
720 min Summer	83.875	0.011	4.9	8.9	Flood Risk
960 min Summer	83.874	0.010	4.2	7.8	Flood Risk
1440 min Summer	83.872	0.008	2.8	6.4	Flood Risk
2160 min Summer	83.871	0.007	2.2	5.3	Flood Risk
2880 min Summer	83.870	0.006	1.7	4.6	Flood Risk
4320 min Summer	83.869	0.005	1.2	3.7	Flood Risk
5760 min Summer	83.868	0.004	0.9	3.3	Flood Risk
7200 min Summer	83.868	0.004	0.7	3.2	Flood Risk
8640 min Summer	83.868	0.004	0.7	2.9	Flood Risk
10080 min Summer	83.868	0.004	0.7	2.9	Flood Risk
15 min Winter	83.884	0.020	13.7	16.5	Flood Risk
30 min Winter	83.886	0.022	15.3	18.0	Flood Risk
60 min Winter	83.885	0.021	14.7	17.3	Flood Risk
120 min Winter	83.882	0.018	11.6	14.9	Flood Risk
180 min Winter	83.880	0.016	9.2	13.1	Flood Risk
240 min Winter	83.878	0.014	7.8	11.8	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	106.718	0.0	21.1	14
30 min Summer	69.623	0.0	27.7	22
60 min Summer	43.443	0.0	34.8	38
120 min Summer	26.110	0.0	42.0	70
180 min Summer	19.234	0.0	46.5	100
240 min Summer	15.397	0.0	49.7	132
360 min Summer	11.131	0.0	53.9	192
480 min Summer	8.775	0.0	56.7	254
600 min Summer	7.269	0.0	58.8	314
720 min Summer	6.220	0.0	60.4	376
960 min Summer	4.847	0.0	62.8	494
1440 min Summer	3.392	0.0	65.9	738
2160 min Summer	2.370	0.0	69.1	1100
2880 min Summer	1.844	0.0	71.8	1436
4320 min Summer	1.310	0.0	76.5	2124
5760 min Summer	1.038	0.0	80.9	2896
7200 min Summer	0.873	0.0	85.1	3680
8640 min Summer	0.762	0.0	89.1	4336
10080 min Summer	0.683	0.0	93.2	5216
15 min Winter	106.718	0.0	21.1	14
30 min Winter	69.623	0.0	27.7	23
60 min Winter	43.443	0.0	34.8	40
120 min Winter	26.110	0.0	42.0	72
180 min Winter	19.234	0.0	46.5	106
240 min Winter	15.397	0.0	49.7	136

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Summary of Results for 100 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	83.876	0.012	6.1	9.9	Flood Risk
480 min Winter	83.875	0.011	4.9	8.6	Flood Risk
600 min Winter	83.874	0.010	4.2	7.8	Flood Risk
720 min Winter	83.873	0.009	3.5	7.1	Flood Risk
960 min Winter	83.872	0.008	2.8	6.2	Flood Risk
1440 min Winter	83.870	0.006	1.9	4.9	Flood Risk
2160 min Winter	83.869	0.005	1.4	4.1	Flood Risk
2880 min Winter	83.869	0.005	1.2	3.7	Flood Risk
4320 min Winter	83.868	0.004	0.7	3.0	Flood Risk
5760 min Winter	83.868	0.004	0.7	2.9	Flood Risk
7200 min Winter	83.867	0.003	0.5	2.5	Flood Risk
8640 min Winter	83.867	0.003	0.5	2.5	Flood Risk
10080 min Winter	83.867	0.003	0.5	2.5	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	11.131	0.0	53.9	194
480 min Winter	8.775	0.0	56.7	260
600 min Winter	7.269	0.0	58.8	318
720 min Winter	6.220	0.0	60.4	378
960 min Winter	4.847	0.0	62.8	482
1440 min Winter	3.392	0.0	65.9	754
2160 min Winter	2.370	0.0	69.2	1060
2880 min Winter	1.844	0.0	71.8	1464
4320 min Winter	1.310	0.0	76.5	2248
5760 min Winter	1.038	0.0	80.9	3064
7200 min Winter	0.873	0.0	85.1	3672
8640 min Winter	0.762	0.0	89.2	4656
10080 min Winter	0.683	0.0	93.2	5192

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	83.891	0.027	21.7	22.3	Flood Risk
30 min Summer	83.894	0.030	24.9	24.5	Flood Risk
60 min Summer	83.893	0.029	24.3	24.2	Flood Risk
120 min Summer	83.890	0.026	20.5	21.5	Flood Risk
180 min Summer	83.887	0.023	17.0	19.2	Flood Risk
240 min Summer	83.885	0.021	14.7	17.5	Flood Risk
360 min Summer	83.882	0.018	11.6	15.0	Flood Risk
480 min Summer	83.880	0.016	9.6	13.2	Flood Risk
600 min Summer	83.879	0.015	8.2	12.0	Flood Risk
720 min Summer	83.877	0.013	6.9	11.1	Flood Risk
960 min Summer	83.876	0.012	5.7	9.6	Flood Risk
1440 min Summer	83.874	0.010	4.2	7.8	Flood Risk
2160 min Summer	83.872	0.008	2.8	6.4	Flood Risk
2880 min Summer	83.871	0.007	2.2	5.5	Flood Risk
4320 min Summer	83.870	0.006	1.7	4.6	Flood Risk
5760 min Summer	83.869	0.005	1.4	4.1	Flood Risk
7200 min Summer	83.869	0.005	1.2	3.7	Flood Risk
8640 min Summer	83.868	0.004	0.9	3.3	Flood Risk
10080 min Summer	83.868	0.004	0.9	3.3	Flood Risk
15 min Winter	83.891	0.027	21.1	22.2	Flood Risk
30 min Winter	83.893	0.029	23.6	23.8	Flood Risk
60 min Winter	83.891	0.027	21.7	22.6	Flood Risk
120 min Winter	83.887	0.023	17.0	19.0	Flood Risk
180 min Winter	83.884	0.020	13.7	16.4	Flood Risk
240 min Winter	83.882	0.018	11.1	14.7	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	29.8	13
30 min Summer	97.472	0.0	39.1	21
60 min Summer	60.820	0.0	49.1	38
120 min Summer	36.554	0.0	59.1	68
180 min Summer	26.928	0.0	65.4	100
240 min Summer	21.556	0.0	69.9	130
360 min Summer	15.584	0.0	75.8	192
480 min Summer	12.284	0.0	79.8	252
600 min Summer	10.177	0.0	82.6	312
720 min Summer	8.708	0.0	84.9	376
960 min Summer	6.785	0.0	88.2	492
1440 min Summer	4.749	0.0	92.6	734
2160 min Summer	3.318	0.0	97.1	1104
2880 min Summer	2.582	0.0	100.8	1468
4320 min Summer	1.834	0.0	107.5	2168
5760 min Summer	1.453	0.0	113.6	2992
7200 min Summer	1.222	0.0	119.4	3616
8640 min Summer	1.067	0.0	125.1	4400
10080 min Summer	0.956	0.0	130.8	5008
15 min Winter	149.405	0.0	29.8	14
30 min Winter	97.472	0.0	39.1	23
60 min Winter	60.820	0.0	49.1	40
120 min Winter	36.554	0.0	59.1	72
180 min Winter	26.928	0.0	65.4	104
240 min Winter	21.556	0.0	69.9	134

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Summary of Results for 100 year Return Period (+40%)

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	83.879	0.015	8.7	12.3	Flood Risk
480 min Winter	83.877	0.013	6.9	10.7	Flood Risk
600 min Winter	83.876	0.012	5.7	9.6	Flood Risk
720 min Winter	83.875	0.011	4.9	8.7	Flood Risk
960 min Winter	83.873	0.009	3.8	7.5	Flood Risk
1440 min Winter	83.872	0.008	2.8	6.2	Flood Risk
2160 min Winter	83.870	0.006	1.9	5.0	Flood Risk
2880 min Winter	83.870	0.006	1.7	4.5	Flood Risk
4320 min Winter	83.869	0.005	1.2	3.7	Flood Risk
5760 min Winter	83.868	0.004	0.9	3.3	Flood Risk
7200 min Winter	83.868	0.004	0.7	2.9	Flood Risk
8640 min Winter	83.868	0.004	0.7	2.9	Flood Risk
10080 min Winter	83.867	0.003	0.5	2.5	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	15.584	0.0	75.9	198
480 min Winter	12.284	0.0	79.8	252
600 min Winter	10.177	0.0	82.6	316
720 min Winter	8.708	0.0	84.9	376
960 min Winter	6.785	0.0	88.2	500
1440 min Winter	4.749	0.0	92.6	718
2160 min Winter	3.318	0.0	97.1	1076
2880 min Winter	2.582	0.0	100.8	1528
4320 min Winter	1.834	0.0	107.5	2248
5760 min Winter	1.453	0.0	113.6	3024
7200 min Winter	1.222	0.0	119.4	3536
8640 min Winter	1.067	0.0	125.1	4736
10080 min Winter	0.956	0.0	130.8	5144

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.082

**Time (mins) Area**  
**From: To: (ha)**

0 4 0.082



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Model Details

Storage is Online Cover Level (m) 84.015

Tank or Pond Structure

Invert Level (m) 83.864

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	822.0	0.151	822.0

Weir Overflow Control

Discharge Coef 0.544 Width (m) 3.000 Invert Level (m) 83.865

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.009	0.009	0.0	2.4	Flood Risk
30 min Summer	84.011	0.011	0.0	3.1	Flood Risk
60 min Summer	84.014	0.014	0.0	3.8	Flood Risk
120 min Summer	84.019	0.019	0.0	5.2	Flood Risk
180 min Summer	84.022	0.022	0.0	6.1	Flood Risk
240 min Summer	84.024	0.024	0.0	6.7	Flood Risk
360 min Summer	84.027	0.027	0.0	7.5	Flood Risk
480 min Summer	84.029	0.029	0.0	8.0	Flood Risk
600 min Summer	84.031	0.031	0.0	8.4	Flood Risk
720 min Summer	84.032	0.032	0.0	8.7	Flood Risk
960 min Summer	84.033	0.033	0.0	9.2	Flood Risk
1440 min Summer	84.036	0.036	0.0	9.9	Flood Risk
2160 min Summer	84.039	0.039	0.0	10.8	Flood Risk
2880 min Summer	84.042	0.042	0.0	11.5	Flood Risk
4320 min Summer	84.047	0.047	0.0	12.9	Flood Risk
5760 min Summer	84.050	0.050	0.0	13.7	Flood Risk
7200 min Summer	84.050	0.050	0.0	13.7	Flood Risk
8640 min Summer	84.051	0.051	0.1	13.8	Flood Risk
10080 min Summer	84.051	0.051	0.1	13.8	Flood Risk
15 min Winter	84.009	0.009	0.0	2.4	Flood Risk
30 min Winter	84.011	0.011	0.0	3.1	Flood Risk
60 min Winter	84.014	0.014	0.0	3.8	Flood Risk
120 min Winter	84.019	0.019	0.0	5.2	Flood Risk
180 min Winter	84.022	0.022	0.0	6.1	Flood Risk
240 min Winter	84.024	0.024	0.0	6.7	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	35.940	0.0	0.0	19
30 min Summer	22.822	0.0	0.0	34
60 min Summer	14.078	0.0	0.0	64
120 min Summer	9.627	0.0	0.0	124
180 min Summer	7.475	0.0	0.0	184
240 min Summer	6.162	0.0	0.0	244
360 min Summer	4.600	0.0	0.0	364
480 min Summer	3.694	0.0	0.0	484
600 min Summer	3.102	0.0	0.0	604
720 min Summer	2.682	0.0	0.0	724
960 min Summer	2.123	0.0	0.0	964
1440 min Summer	1.527	0.0	0.0	1444
2160 min Summer	1.107	0.0	0.0	2164
2880 min Summer	0.888	0.0	0.0	2884
4320 min Summer	0.664	0.0	0.0	4324
5760 min Summer	0.548	0.0	0.5	5336
7200 min Summer	0.477	0.0	1.8	5432
8640 min Summer	0.429	0.0	3.0	5992
10080 min Summer	0.394	0.0	4.2	6608
15 min Winter	35.940	0.0	0.0	19
30 min Winter	22.822	0.0	0.0	34
60 min Winter	14.078	0.0	0.0	64
120 min Winter	9.627	0.0	0.0	124
180 min Winter	7.475	0.0	0.0	184
240 min Winter	6.162	0.0	0.0	244

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	84.027	0.027	0.0	7.5	Flood Risk
480 min Winter	84.029	0.029	0.0	8.0	Flood Risk
600 min Winter	84.031	0.031	0.0	8.4	Flood Risk
720 min Winter	84.032	0.032	0.0	8.7	Flood Risk
960 min Winter	84.033	0.033	0.0	9.2	Flood Risk
1440 min Winter	84.036	0.036	0.0	9.9	Flood Risk
2160 min Winter	84.039	0.039	0.0	10.8	Flood Risk
2880 min Winter	84.042	0.042	0.0	11.5	Flood Risk
4320 min Winter	84.047	0.047	0.0	12.9	Flood Risk
5760 min Winter	84.050	0.050	0.0	13.7	Flood Risk
7200 min Winter	84.050	0.050	0.0	13.7	Flood Risk
8640 min Winter	84.051	0.051	0.1	13.8	Flood Risk
10080 min Winter	84.051	0.051	0.1	13.8	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	4.600	0.0	0.0	364
480 min Winter	3.694	0.0	0.0	484
600 min Winter	3.102	0.0	0.0	604
720 min Winter	2.682	0.0	0.0	724
960 min Winter	2.123	0.0	0.0	964
1440 min Winter	1.527	0.0	0.0	1444
2160 min Winter	1.107	0.0	0.0	2164
2880 min Winter	0.888	0.0	0.0	2884
4320 min Winter	0.664	0.0	0.0	4324
5760 min Winter	0.548	0.0	0.5	5128
7200 min Winter	0.477	0.0	1.8	5544
8640 min Winter	0.429	0.0	3.0	5936
10080 min Winter	0.394	0.0	4.2	7216

241 The Broadway  
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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.021	0.021	0.0	5.6	Flood Risk
30 min Summer	84.027	0.027	0.0	7.3	Flood Risk
60 min Summer	84.033	0.033	0.0	9.0	Flood Risk
120 min Summer	84.040	0.040	0.0	11.0	Flood Risk
180 min Summer	84.045	0.045	0.0	12.2	Flood Risk
240 min Summer	84.048	0.048	0.0	13.1	Flood Risk
<b>360 min Summer</b>	<b>84.051</b>	<b>0.051</b>	<b>0.2</b>	<b>14.0</b>	<b>Flood Risk</b>
480 min Summer	84.051	0.051	0.2	14.0	Flood Risk
600 min Summer	84.051	0.051	0.2	14.0	Flood Risk
720 min Summer	84.051	0.051	0.2	14.0	Flood Risk
960 min Summer	84.051	0.051	0.2	14.0	Flood Risk
1440 min Summer	84.051	0.051	0.2	14.0	Flood Risk
2160 min Summer	84.051	0.051	0.2	14.0	Flood Risk
2880 min Summer	84.051	0.051	0.2	14.0	Flood Risk
4320 min Summer	84.051	0.051	0.2	14.0	Flood Risk
5760 min Summer	84.051	0.051	0.2	14.0	Flood Risk
7200 min Summer	84.051	0.051	0.2	14.0	Flood Risk
8640 min Summer	84.051	0.051	0.2	14.0	Flood Risk
10080 min Summer	84.051	0.051	0.2	14.0	Flood Risk
15 min Winter	84.021	0.021	0.0	5.6	Flood Risk
30 min Winter	84.027	0.027	0.0	7.3	Flood Risk
60 min Winter	84.033	0.033	0.0	9.0	Flood Risk
120 min Winter	84.040	0.040	0.0	11.0	Flood Risk
180 min Winter	84.045	0.045	0.0	12.2	Flood Risk
240 min Winter	84.048	0.048	0.0	13.1	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	83.255	0.0	0.0	19
30 min Summer	53.786	0.0	0.0	34
60 min Summer	33.433	0.0	0.0	64
120 min Summer	20.390	0.0	0.0	124
180 min Summer	15.113	0.0	0.0	184
240 min Summer	12.136	0.0	0.0	244
<b>360 min Summer</b>	<b>8.798</b>	<b>0.0</b>	<b>0.6</b>	<b>352</b>
480 min Summer	6.947	0.0	1.3	404
600 min Summer	5.763	0.0	1.9	482
720 min Summer	4.936	0.0	2.3	520
960 min Summer	3.852	0.0	2.9	648
1440 min Summer	2.710	0.0	3.9	912
2160 min Summer	1.913	0.0	4.9	1328
2880 min Summer	1.502	0.0	5.8	1688
4320 min Summer	1.084	0.0	7.4	2396
5760 min Summer	0.870	0.0	8.9	3128
7200 min Summer	0.740	0.0	10.3	3864
8640 min Summer	0.652	0.0	11.7	4472
10080 min Summer	0.589	0.0	13.0	5136
15 min Winter	83.255	0.0	0.0	19
30 min Winter	53.786	0.0	0.0	34
60 min Winter	33.433	0.0	0.0	64
120 min Winter	20.390	0.0	0.0	124
180 min Winter	15.113	0.0	0.0	184
240 min Winter	12.136	0.0	0.0	244

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Summary of Results for 30 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.051	0.051	0.2	14.0	Flood Risk
480 min Winter	84.051	0.051	0.2	14.0	Flood Risk
600 min Winter	84.051	0.051	0.2	14.0	Flood Risk
720 min Winter	84.051	0.051	0.2	14.0	Flood Risk
960 min Winter	84.051	0.051	0.2	14.0	Flood Risk
1440 min Winter	84.051	0.051	0.2	14.0	Flood Risk
2160 min Winter	84.051	0.051	0.2	14.0	Flood Risk
2880 min Winter	84.051	0.051	0.2	14.0	Flood Risk
4320 min Winter	84.051	0.051	0.2	14.0	Flood Risk
5760 min Winter	84.051	0.051	0.2	14.0	Flood Risk
7200 min Winter	84.051	0.051	0.2	14.0	Flood Risk
8640 min Winter	84.051	0.051	0.2	14.0	Flood Risk
10080 min Winter	84.051	0.051	0.1	13.9	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	8.798	0.0	0.6	344
480 min Winter	6.947	0.0	1.3	438
600 min Winter	5.763	0.0	1.9	470
720 min Winter	4.936	0.0	2.3	544
960 min Winter	3.852	0.0	2.9	694
1440 min Winter	2.710	0.0	3.9	978
2160 min Winter	1.913	0.0	4.9	1376
2880 min Winter	1.502	0.0	5.8	1740
4320 min Winter	1.084	0.0	7.4	2492
5760 min Winter	0.870	0.0	8.9	3392
7200 min Winter	0.740	0.0	10.3	4048
8640 min Winter	0.652	0.0	11.7	4688
10080 min Winter	0.589	0.0	13.0	5440

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.026	0.026	0.0	7.2	Flood Risk
30 min Summer	84.034	0.034	0.0	9.4	Flood Risk
60 min Summer	84.043	0.043	0.0	11.7	Flood Risk
120 min Summer	84.051	0.051	0.2	14.0	Flood Risk
180 min Summer	84.052	0.052	0.5	14.3	Flood Risk
240 min Summer	84.052	0.052	0.5	14.4	Flood Risk
360 min Summer	84.053	0.053	0.7	14.4	Flood Risk
480 min Summer	84.053	0.053	0.7	14.5	Flood Risk
600 min Summer	84.053	0.053	0.9	14.5	Flood Risk
720 min Summer	84.053	0.053	0.7	14.5	Flood Risk
960 min Summer	84.053	0.053	0.7	14.4	Flood Risk
1440 min Summer	84.052	0.052	0.5	14.4	Flood Risk
2160 min Summer	84.052	0.052	0.5	14.3	Flood Risk
2880 min Summer	84.052	0.052	0.4	14.2	Flood Risk
4320 min Summer	84.052	0.052	0.4	14.1	Flood Risk
5760 min Summer	84.052	0.052	0.4	14.1	Flood Risk
7200 min Summer	84.052	0.052	0.4	14.1	Flood Risk
8640 min Summer	84.051	0.051	0.2	14.0	Flood Risk
10080 min Summer	84.051	0.051	0.2	14.0	Flood Risk
15 min Winter	84.026	0.026	0.0	7.2	Flood Risk
30 min Winter	84.034	0.034	0.0	9.4	Flood Risk
60 min Winter	84.043	0.043	0.0	11.7	Flood Risk
120 min Winter	84.051	0.051	0.2	14.0	Flood Risk
180 min Winter	84.052	0.052	0.5	14.4	Flood Risk
240 min Winter	84.053	0.053	0.7	14.4	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	106.718	0.0	0.0	19
30 min Summer	69.623	0.0	0.0	34
60 min Summer	43.443	0.0	0.0	64
120 min Summer	26.110	0.0	0.4	122
180 min Summer	19.234	0.0	1.9	162
240 min Summer	15.397	0.0	2.9	192
360 min Summer	11.131	0.0	4.3	240
480 min Summer	8.775	0.0	5.3	306
600 min Summer	7.269	0.0	5.9	366
720 min Summer	6.220	0.0	6.5	434
960 min Summer	4.847	0.0	7.2	558
1440 min Summer	3.392	0.0	8.3	824
2160 min Summer	2.370	0.0	9.3	1176
2880 min Summer	1.844	0.0	10.2	1584
4320 min Summer	1.310	0.0	11.8	2256
5760 min Summer	1.038	0.0	13.2	3032
7200 min Summer	0.873	0.0	14.6	3744
8640 min Summer	0.762	0.0	15.9	4488
10080 min Summer	0.683	0.0	17.3	5096
15 min Winter	106.718	0.0	0.0	19
30 min Winter	69.623	0.0	0.0	34
60 min Winter	43.443	0.0	0.0	64
120 min Winter	26.110	0.0	0.4	120
180 min Winter	19.234	0.0	1.9	170
240 min Winter	15.397	0.0	2.9	182

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	84.053	0.053	0.9	14.5	Flood Risk
480 min Winter	84.053	0.053	0.9	14.5	Flood Risk
600 min Winter	84.053	0.053	0.7	14.5	Flood Risk
720 min Winter	84.053	0.053	0.7	14.4	Flood Risk
960 min Winter	84.053	0.053	0.7	14.4	Flood Risk
1440 min Winter	84.052	0.052	0.5	14.3	Flood Risk
2160 min Winter	84.052	0.052	0.4	14.2	Flood Risk
2880 min Winter	84.052	0.052	0.4	14.1	Flood Risk
4320 min Winter	84.051	0.051	0.2	14.0	Flood Risk
5760 min Winter	84.051	0.051	0.2	14.0	Flood Risk
7200 min Winter	84.051	0.051	0.2	14.0	Flood Risk
8640 min Winter	84.051	0.051	0.2	14.0	Flood Risk
10080 min Winter	84.051	0.051	0.2	14.0	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	11.131	0.0	4.3	250
480 min Winter	8.775	0.0	5.3	322
600 min Winter	7.269	0.0	5.9	392
720 min Winter	6.220	0.0	6.5	452
960 min Winter	4.847	0.0	7.2	578
1440 min Winter	3.392	0.0	8.3	830
2160 min Winter	2.370	0.0	9.3	1232
2880 min Winter	1.844	0.0	10.2	1576
4320 min Winter	1.310	0.0	11.8	2376
5760 min Winter	1.038	0.0	13.2	2976
7200 min Winter	0.873	0.0	14.6	4016
8640 min Winter	0.762	0.0	15.9	4456
10080 min Winter	0.683	0.0	17.3	5664

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	84.037	0.037	0.0	10.1	Flood Risk
30 min Summer	84.048	0.048	0.0	13.2	Flood Risk
60 min Summer	84.055	0.055	1.7	15.0	Flood Risk
120 min Summer	84.056	0.056	2.5	15.4	Flood Risk
180 min Summer	84.057	0.057	2.8	15.6	Flood Risk
240 min Summer	84.057	0.057	3.2	15.6	Flood Risk
360 min Summer	84.057	0.057	2.8	15.5	Flood Risk
480 min Summer	84.056	0.056	2.5	15.4	Flood Risk
600 min Summer	84.056	0.056	2.2	15.3	Flood Risk
720 min Summer	84.056	0.056	2.2	15.2	Flood Risk
960 min Summer	84.055	0.055	1.7	15.0	Flood Risk
1440 min Summer	84.054	0.054	1.4	14.8	Flood Risk
2160 min Summer	84.053	0.053	0.9	14.6	Flood Risk
2880 min Summer	84.053	0.053	0.7	14.5	Flood Risk
4320 min Summer	84.052	0.052	0.5	14.3	Flood Risk
5760 min Summer	84.052	0.052	0.5	14.3	Flood Risk
7200 min Summer	84.052	0.052	0.4	14.2	Flood Risk
8640 min Summer	84.052	0.052	0.4	14.1	Flood Risk
10080 min Summer	84.052	0.052	0.4	14.1	Flood Risk
15 min Winter	84.037	0.037	0.0	10.1	Flood Risk
30 min Winter	84.048	0.048	0.0	13.2	Flood Risk
60 min Winter	84.055	0.055	1.7	15.1	Flood Risk
120 min Winter	84.057	0.057	2.8	15.5	Flood Risk
180 min Winter	84.057	0.057	2.8	15.5	Flood Risk
240 min Winter	84.057	0.057	2.8	15.5	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	0.0	19
30 min Summer	97.472	0.0	0.0	34
60 min Summer	60.820	0.0	2.7	56
120 min Summer	36.554	0.0	6.0	80
180 min Summer	26.928	0.0	8.1	112
240 min Summer	21.556	0.0	9.6	142
360 min Summer	15.584	0.0	11.5	202
480 min Summer	12.284	0.0	12.8	264
600 min Summer	10.177	0.0	13.8	326
720 min Summer	8.708	0.0	14.5	382
960 min Summer	6.785	0.0	15.6	504
1440 min Summer	4.749	0.0	17.1	734
2160 min Summer	3.318	0.0	18.6	1104
2880 min Summer	2.582	0.0	19.8	1468
4320 min Summer	1.834	0.0	22.0	2140
5760 min Summer	1.453	0.0	24.0	2872
7200 min Summer	1.222	0.0	25.9	3664
8640 min Summer	1.067	0.0	27.8	4376
10080 min Summer	0.956	0.0	29.7	5112
15 min Winter	149.405	0.0	0.0	19
30 min Winter	97.472	0.0	0.0	34
60 min Winter	60.820	0.0	2.7	58
120 min Winter	36.554	0.0	6.0	86
180 min Winter	26.928	0.0	8.1	118
240 min Winter	21.556	0.0	9.6	148



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Summary of Results for 100 year Return Period (+40%)

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	84.056	0.056	2.2	15.3	Flood Risk
480 min Winter	84.055	0.055	1.9	15.2	Flood Risk
600 min Winter	84.055	0.055	1.7	15.0	Flood Risk
720 min Winter	84.055	0.055	1.7	14.9	Flood Risk
960 min Winter	84.054	0.054	1.2	14.8	Flood Risk
1440 min Winter	84.053	0.053	0.9	14.5	Flood Risk
2160 min Winter	84.053	0.053	0.7	14.4	Flood Risk
2880 min Winter	84.052	0.052	0.5	14.3	Flood Risk
4320 min Winter	84.052	0.052	0.4	14.1	Flood Risk
5760 min Winter	84.052	0.052	0.4	14.1	Flood Risk
7200 min Winter	84.051	0.051	0.2	14.1	Flood Risk
8640 min Winter	84.051	0.051	0.2	14.0	Flood Risk
10080 min Winter	84.051	0.051	0.2	14.0	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	15.584	0.0	11.5	216
480 min Winter	12.284	0.0	12.8	276
600 min Winter	10.177	0.0	13.8	338
720 min Winter	8.708	0.0	14.5	408
960 min Winter	6.785	0.0	15.6	528
1440 min Winter	4.749	0.0	17.1	728
2160 min Winter	3.318	0.0	18.6	1068
2880 min Winter	2.582	0.0	19.8	1468
4320 min Winter	1.834	0.0	22.0	2132
5760 min Winter	1.453	0.0	24.0	2728
7200 min Winter	1.222	0.0	25.9	3752
8640 min Winter	1.067	0.0	27.8	4256
10080 min Winter	0.956	0.0	29.6	5208

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.027

**Time (mins) Area**  
**From: To: (ha)**

0 4 0.027

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Model Details

Storage is Online Cover Level (m) 84.200

Tank or Pond Structure

Invert Level (m) 84.000

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	274.0	0.200	274.0

Weir Overflow Control

Discharge Coef 0.544 Width (m) 3.000 Invert Level (m) 84.050

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Cascade Summary of Results for Pond 8 piped outfall to NP-SW-03.SRCX

**Upstream  
Structures**

**Outflow To**

**Overflow To**

Pond 8.SRCX Downstream Network from NP-SW-03 to NP-SW-OUTFALL.SRCX

(None)

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Control (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
15 min Summer	83.075	0.000	0.0	0.0	O K
30 min Summer	83.075	0.000	0.0	0.0	O K
60 min Summer	83.075	0.000	1.7	0.0	O K
120 min Summer	83.075	0.000	2.5	0.0	O K
180 min Summer	83.075	0.000	2.8	0.0	O K
240 min Summer	83.075	0.000	3.2	0.0	O K
360 min Summer	83.075	0.000	2.8	0.0	O K
480 min Summer	83.075	0.000	2.5	0.0	O K
600 min Summer	83.075	0.000	2.2	0.0	O K
720 min Summer	83.075	0.000	2.2	0.0	O K
960 min Summer	83.075	0.000	1.7	0.0	O K
1440 min Summer	83.075	0.000	1.4	0.0	O K
2160 min Summer	83.075	0.000	0.9	0.0	O K
2880 min Summer	83.075	0.000	0.7	0.0	O K
4320 min Summer	83.075	0.000	0.5	0.0	O K
5760 min Summer	83.075	0.000	0.5	0.0	O K
7200 min Summer	83.075	0.000	0.4	0.0	O K
8640 min Summer	83.075	0.000	0.4	0.0	O K
10080 min Summer	83.075	0.000	0.4	0.0	O K
15 min Winter	83.075	0.000	0.0	0.0	O K
30 min Winter	83.075	0.000	0.0	0.0	O K
60 min Winter	83.075	0.000	1.7	0.0	O K
120 min Winter	83.075	0.000	2.8	0.0	O K

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Discharge Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
15 min Summer	149.405	0.0	0.0	0
30 min Summer	97.472	0.0	0.0	0
60 min Summer	60.820	0.0	2.7	0
120 min Summer	36.554	0.0	6.0	0
180 min Summer	26.928	0.0	8.1	0
240 min Summer	21.556	0.0	9.6	0
360 min Summer	15.584	0.0	11.5	0
480 min Summer	12.284	0.0	12.8	0
600 min Summer	10.177	0.0	13.8	0
720 min Summer	8.708	0.0	14.5	0
960 min Summer	6.785	0.0	15.6	0
1440 min Summer	4.749	0.0	17.1	0
2160 min Summer	3.318	0.0	18.6	0
2880 min Summer	2.582	0.0	19.8	0
4320 min Summer	1.834	0.0	22.0	0
5760 min Summer	1.453	0.0	24.0	0
7200 min Summer	1.222	0.0	25.9	0
8640 min Summer	1.067	0.0	27.8	0
10080 min Summer	0.956	0.0	29.7	0
15 min Winter	149.405	0.0	0.0	0
30 min Winter	97.472	0.0	0.0	0
60 min Winter	60.820	0.0	2.7	0
120 min Winter	36.554	0.0	6.0	0

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Cascade Summary of Results for Pond 8 piped outfall to NP-SW-03.SRCX

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m <sup>3</sup> )	Status
180 min Winter	83.075	0.000	2.8	0.0	O K
240 min Winter	83.075	0.000	2.8	0.0	O K
360 min Winter	83.075	0.000	2.2	0.0	O K
480 min Winter	83.075	0.000	1.9	0.0	O K
600 min Winter	83.075	0.000	1.7	0.0	O K
720 min Winter	83.075	0.000	1.7	0.0	O K
960 min Winter	83.075	0.000	1.2	0.0	O K
1440 min Winter	83.075	0.000	0.9	0.0	O K
2160 min Winter	83.075	0.000	0.7	0.0	O K
2880 min Winter	83.075	0.000	0.5	0.0	O K
4320 min Winter	83.075	0.000	0.4	0.0	O K
5760 min Winter	83.075	0.000	0.4	0.0	O K
7200 min Winter	83.075	0.000	0.2	0.0	O K
8640 min Winter	83.075	0.000	0.2	0.0	O K
10080 min Winter	83.075	0.000	0.2	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Discharge Volume (m <sup>3</sup> )	Time-Peak (mins)
180 min Winter	26.928	0.0	8.1	0
240 min Winter	21.556	0.0	9.6	0
360 min Winter	15.584	0.0	11.5	0
480 min Winter	12.284	0.0	12.8	0
600 min Winter	10.177	0.0	13.8	0
720 min Winter	8.708	0.0	14.5	0
960 min Winter	6.785	0.0	15.6	0
1440 min Winter	4.749	0.0	17.1	0
2160 min Winter	3.318	0.0	18.6	0
2880 min Winter	2.582	0.0	19.8	0
4320 min Winter	1.834	0.0	22.0	0
5760 min Winter	1.453	0.0	24.0	0
7200 min Winter	1.222	0.0	25.9	0
8640 min Winter	1.067	0.0	27.8	0
10080 min Winter	0.956	0.0	29.6	0

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Cascade Rainfall Details for Pond 8 piped outfall to NP-SW-03.SRCX

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

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Cascade Model Details for Pond 8 piped outfall to NP-SW-03.SRCX

Storage is Online Cover Level (m) 84.050

Pipe Structure

Diameter (m) 0.300 Slope (1:X) 234.000 Length (m) 184.710 Invert Level (m) 83.075

Pipe Outflow Control

Diameter (m) 0.300 Roughness k (mm) 0.600 Upstream Invert Level (m) 82.285  
Slope (1:X) 232.0 Entry Loss Coefficient 0.500  
Length (m) 53.315 Coefficient of Contraction 0.600

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	83.768	0.009	0.2	17.5	Flood Risk
30 min Summer	83.770	0.011	0.2	22.2	Flood Risk
60 min Summer	83.773	0.014	0.3	27.1	Flood Risk
120 min Summer	83.778	0.019	0.4	36.4	Flood Risk
180 min Summer	83.780	0.021	0.5	41.4	Flood Risk
240 min Summer	83.782	0.023	0.6	44.3	Flood Risk
360 min Summer	83.783	0.024	0.7	47.0	Flood Risk
480 min Summer	83.783	0.024	0.7	47.8	Flood Risk
600 min Summer	83.784	0.025	0.8	48.3	Flood Risk
720 min Summer	83.784	0.025	0.8	48.6	Flood Risk
960 min Summer	83.784	0.025	0.8	48.8	Flood Risk
1440 min Summer	83.784	0.025	0.8	48.5	Flood Risk
2160 min Summer	83.783	0.024	0.7	47.8	Flood Risk
2880 min Summer	83.783	0.024	0.7	47.0	Flood Risk
4320 min Summer	83.782	0.023	0.7	45.6	Flood Risk
5760 min Summer	83.782	0.023	0.6	44.5	Flood Risk
7200 min Summer	83.781	0.022	0.6	43.5	Flood Risk
8640 min Summer	83.781	0.022	0.6	42.8	Flood Risk
10080 min Summer	83.781	0.022	0.6	42.2	Flood Risk
15 min Winter	83.768	0.009	0.2	17.5	Flood Risk
30 min Winter	83.770	0.011	0.2	22.2	Flood Risk
60 min Winter	83.773	0.014	0.3	27.1	Flood Risk
120 min Winter	83.778	0.019	0.4	36.4	Flood Risk
180 min Winter	83.780	0.021	0.5	41.5	Flood Risk
240 min Winter	83.782	0.023	0.6	44.4	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	35.940	0.0	8.5	19
30 min Summer	22.822	0.0	11.7	34
60 min Summer	14.078	0.0	19.7	64
120 min Summer	9.627	0.0	29.1	124
180 min Summer	7.475	0.0	34.6	182
240 min Summer	6.162	0.0	38.4	242
360 min Summer	4.600	0.0	43.4	360
480 min Summer	3.694	0.0	46.7	440
600 min Summer	3.102	0.0	49.1	484
720 min Summer	2.682	0.0	50.9	544
960 min Summer	2.123	0.0	53.4	674
1440 min Summer	1.527	0.0	55.5	940
2160 min Summer	1.107	0.0	70.7	1360
2880 min Summer	0.888	0.0	75.4	1756
4320 min Summer	0.664	0.0	82.3	2548
5760 min Summer	0.548	0.0	98.0	3288
7200 min Summer	0.477	0.0	106.7	4040
8640 min Summer	0.429	0.0	114.9	4840
10080 min Summer	0.394	0.0	121.8	5544
15 min Winter	35.940	0.0	8.5	19
30 min Winter	22.822	0.0	11.6	33
60 min Winter	14.078	0.0	19.7	62
120 min Winter	9.627	0.0	29.1	122
180 min Winter	7.475	0.0	34.6	180
240 min Winter	6.162	0.0	38.4	236



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Summary of Results for 2 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	83.783	0.024	0.7	47.3	Flood Risk
480 min Winter	83.784	0.025	0.8	48.3	Flood Risk
600 min Winter	83.784	0.025	0.8	48.5	Flood Risk
720 min Winter	83.784	0.025	0.8	48.8	Flood Risk
960 min Winter	83.784	0.025	0.8	48.7	Flood Risk
1440 min Winter	83.783	0.024	0.7	47.9	Flood Risk
2160 min Winter	83.783	0.024	0.7	46.4	Flood Risk
2880 min Winter	83.782	0.023	0.7	45.0	Flood Risk
4320 min Winter	83.781	0.022	0.6	42.8	Flood Risk
5760 min Winter	83.780	0.021	0.5	41.1	Flood Risk
7200 min Winter	83.779	0.020	0.5	39.9	Flood Risk
8640 min Winter	83.779	0.020	0.5	38.8	Flood Risk
10080 min Winter	83.778	0.019	0.4	37.9	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	4.600	0.0	43.4	348
480 min Winter	3.694	0.0	46.7	452
600 min Winter	3.102	0.0	49.1	496
720 min Winter	2.682	0.0	50.9	564
960 min Winter	2.123	0.0	53.4	714
1440 min Winter	1.527	0.0	55.4	1022
2160 min Winter	1.107	0.0	70.7	1448
2880 min Winter	0.888	0.0	75.4	1872
4320 min Winter	0.664	0.0	82.2	2684
5760 min Winter	0.548	0.0	98.0	3464
7200 min Winter	0.477	0.0	106.7	4320
8640 min Winter	0.429	0.0	114.9	5104
10080 min Winter	0.394	0.0	121.9	5944

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	83.780	0.021	0.5	40.5	Flood Risk
30 min Summer	83.786	0.027	0.9	52.0	Flood Risk
60 min Summer	83.791	0.032	1.2	63.5	Flood Risk
120 min Summer	83.797	0.038	1.7	74.6	Flood Risk
180 min Summer	83.799	0.040	2.0	79.3	Flood Risk
240 min Summer	83.800	0.041	2.2	81.0	Flood Risk
360 min Summer	83.801	0.042	2.2	82.1	Flood Risk
480 min Summer	83.801	0.042	2.3	82.4	Flood Risk
600 min Summer	83.801	0.042	2.3	82.3	Flood Risk
720 min Summer	83.801	0.042	2.2	81.9	Flood Risk
960 min Summer	83.800	0.041	2.2	80.7	Flood Risk
1440 min Summer	83.799	0.040	1.9	77.9	Flood Risk
2160 min Summer	83.797	0.038	1.6	74.2	Flood Risk
2880 min Summer	83.795	0.036	1.5	70.6	Flood Risk
4320 min Summer	83.792	0.033	1.3	65.1	Flood Risk
5760 min Summer	83.790	0.031	1.2	61.2	Flood Risk
7200 min Summer	83.789	0.030	1.1	58.3	Flood Risk
8640 min Summer	83.788	0.029	1.0	56.1	Flood Risk
10080 min Summer	83.787	0.028	1.0	54.3	Flood Risk
15 min Winter	83.780	0.021	0.5	40.5	Flood Risk
30 min Winter	83.786	0.027	0.9	52.0	Flood Risk
60 min Winter	83.791	0.032	1.2	63.6	Flood Risk
120 min Winter	83.797	0.038	1.7	74.8	Flood Risk
180 min Winter	83.800	0.041	2.1	79.7	Flood Risk
240 min Winter	83.801	0.042	2.2	81.8	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	83.255	0.0	24.4	19
30 min Summer	53.786	0.0	33.1	34
60 min Summer	33.433	0.0	54.9	64
120 min Summer	20.390	0.0	68.5	122
180 min Summer	15.113	0.0	77.0	180
240 min Summer	12.136	0.0	83.0	238
360 min Summer	8.798	0.0	90.8	286
480 min Summer	6.947	0.0	95.6	344
600 min Summer	5.763	0.0	98.9	410
720 min Summer	4.936	0.0	101.2	482
960 min Summer	3.852	0.0	104.3	616
1440 min Summer	2.710	0.0	107.1	894
2160 min Summer	1.913	0.0	127.1	1300
2880 min Summer	1.502	0.0	132.7	1700
4320 min Summer	1.084	0.0	139.8	2464
5760 min Summer	0.870	0.0	158.5	3224
7200 min Summer	0.740	0.0	168.3	3960
8640 min Summer	0.652	0.0	177.3	4672
10080 min Summer	0.589	0.0	185.4	5440
15 min Winter	83.255	0.0	24.4	19
30 min Winter	53.786	0.0	33.1	33
60 min Winter	33.433	0.0	54.9	62
120 min Winter	20.390	0.0	68.5	120
180 min Winter	15.113	0.0	77.0	176
240 min Winter	12.136	0.0	83.0	230

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Summary of Results for 30 year Return Period

<b>Storm Event</b>	<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Overflow (l/s)</b>	<b>Max Volume (m<sup>3</sup>)</b>	<b>Status</b>
360 min Winter	83.801	0.042	2.3	82.6	Flood Risk
480 min Winter	83.801	0.042	2.3	82.8	Flood Risk
600 min Winter	83.801	0.042	2.3	82.3	Flood Risk
720 min Winter	83.801	0.042	2.2	81.5	Flood Risk
960 min Winter	83.800	0.041	2.1	79.5	Flood Risk
1440 min Winter	83.798	0.039	1.8	75.6	Flood Risk
2160 min Winter	83.795	0.036	1.4	70.3	Flood Risk
2880 min Winter	83.793	0.034	1.3	65.7	Flood Risk
4320 min Winter	83.789	0.030	1.1	59.1	Flood Risk
5760 min Winter	83.787	0.028	1.0	54.8	Flood Risk
7200 min Winter	83.785	0.026	0.9	51.6	Flood Risk
8640 min Winter	83.784	0.025	0.8	49.1	Flood Risk
10080 min Winter	83.783	0.024	0.7	47.2	Flood Risk

<b>Storm Event</b>	<b>Rain (mm/hr)</b>	<b>Flooded Volume (m<sup>3</sup>)</b>	<b>Overflow Volume (m<sup>3</sup>)</b>	<b>Time-Peak (mins)</b>
360 min Winter	8.798	0.0	90.8	290
480 min Winter	6.947	0.0	95.6	364
600 min Winter	5.763	0.0	98.9	440
720 min Winter	4.936	0.0	101.2	514
960 min Winter	3.852	0.0	104.3	664
1440 min Winter	2.710	0.0	107.0	954
2160 min Winter	1.913	0.0	127.1	1388
2880 min Winter	1.502	0.0	132.7	1788
4320 min Winter	1.084	0.0	139.7	2592
5760 min Winter	0.870	0.0	158.4	3344
7200 min Winter	0.740	0.0	168.3	4104
8640 min Winter	0.652	0.0	177.2	4832
10080 min Winter	0.589	0.0	185.4	5544

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	83.785	0.026	0.9	51.9	Flood Risk
30 min Summer	83.793	0.034	1.4	67.0	Flood Risk
60 min Summer	83.801	0.042	2.2	81.7	Flood Risk
120 min Summer	83.806	0.047	3.1	92.9	Flood Risk
180 min Summer	83.808	0.049	3.4	96.7	Flood Risk
240 min Summer	83.809	0.050	3.5	98.1	Flood Risk
360 min Summer	83.810	0.051	3.6	99.6	Flood Risk
480 min Summer	83.810	0.051	3.6	99.7	Flood Risk
600 min Summer	83.810	0.051	3.6	99.0	Flood Risk
720 min Summer	83.809	0.050	3.5	98.1	Flood Risk
960 min Summer	83.808	0.049	3.3	95.8	Flood Risk
1440 min Summer	83.806	0.047	3.0	91.1	Flood Risk
2160 min Summer	83.802	0.043	2.5	85.2	Flood Risk
2880 min Summer	83.800	0.041	2.2	80.7	Flood Risk
4320 min Summer	83.797	0.038	1.7	74.6	Flood Risk
5760 min Summer	83.795	0.036	1.4	69.6	Flood Risk
7200 min Summer	83.792	0.033	1.3	65.4	Flood Risk
8640 min Summer	83.791	0.032	1.2	62.2	Flood Risk
10080 min Summer	83.790	0.031	1.1	59.7	Flood Risk
15 min Winter	83.785	0.026	0.9	51.9	Flood Risk
30 min Winter	83.793	0.034	1.4	67.1	Flood Risk
60 min Winter	83.801	0.042	2.2	81.9	Flood Risk
120 min Winter	83.807	0.048	3.1	93.3	Flood Risk
180 min Winter	83.809	0.050	3.4	97.7	Flood Risk
240 min Winter	83.810	0.051	3.6	98.9	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	106.718	0.0	32.9	19
30 min Summer	69.623	0.0	45.6	34
60 min Summer	43.443	0.0	73.7	62
120 min Summer	26.110	0.0	90.4	122
180 min Summer	19.234	0.0	100.8	180
240 min Summer	15.397	0.0	108.2	202
360 min Summer	11.131	0.0	117.7	262
480 min Summer	8.775	0.0	123.6	328
600 min Summer	7.269	0.0	127.8	396
720 min Summer	6.220	0.0	130.8	464
960 min Summer	4.847	0.0	134.8	600
1440 min Summer	3.392	0.0	138.2	866
2160 min Summer	2.370	0.0	159.3	1256
2880 min Summer	1.844	0.0	164.7	1644
4320 min Summer	1.310	0.0	170.7	2420
5760 min Summer	1.038	0.0	190.0	3176
7200 min Summer	0.873	0.0	199.5	3960
8640 min Summer	0.762	0.0	208.0	4672
10080 min Summer	0.683	0.0	215.8	5416
15 min Winter	106.718	0.0	32.9	19
30 min Winter	69.623	0.0	45.6	33
60 min Winter	43.443	0.0	73.7	62
120 min Winter	26.110	0.0	90.4	118
180 min Winter	19.234	0.0	100.8	174
240 min Winter	15.397	0.0	108.2	222

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	83.810	0.051	3.7	100.0	Flood Risk
480 min Winter	83.810	0.051	3.6	99.4	Flood Risk
600 min Winter	83.809	0.050	3.5	98.2	Flood Risk
720 min Winter	83.808	0.049	3.4	96.6	Flood Risk
960 min Winter	83.807	0.048	3.1	93.2	Flood Risk
1440 min Winter	83.804	0.045	2.7	87.3	Flood Risk
2160 min Winter	83.800	0.041	2.2	80.5	Flood Risk
2880 min Winter	83.798	0.039	1.8	75.7	Flood Risk
4320 min Winter	83.793	0.034	1.4	67.5	Flood Risk
5760 min Winter	83.790	0.031	1.2	61.3	Flood Risk
7200 min Winter	83.788	0.029	1.0	56.9	Flood Risk
8640 min Winter	83.787	0.028	1.0	53.8	Flood Risk
10080 min Winter	83.785	0.026	0.9	51.3	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	11.131	0.0	117.7	274
480 min Winter	8.775	0.0	123.6	350
600 min Winter	7.269	0.0	127.7	424
720 min Winter	6.220	0.0	130.7	498
960 min Winter	4.847	0.0	134.7	644
1440 min Winter	3.392	0.0	138.1	922
2160 min Winter	2.370	0.0	159.2	1336
2880 min Winter	1.844	0.0	164.7	1732
4320 min Winter	1.310	0.0	170.8	2552
5760 min Winter	1.038	0.0	190.0	3336
7200 min Winter	0.873	0.0	199.5	4040
8640 min Winter	0.762	0.0	208.0	4832
10080 min Winter	0.683	0.0	215.8	5544

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	83.796	0.037	1.6	72.4	Flood Risk
30 min Summer	83.807	0.048	3.1	93.0	Flood Risk
60 min Summer	83.816	0.057	4.6	112.0	Flood Risk
120 min Summer	83.823	0.064	5.5	125.1	Flood Risk
180 min Summer	83.825	0.066	5.8	129.1	Flood Risk
240 min Summer	83.826	0.067	6.1	131.4	Flood Risk
<b>360 min Summer</b>	<b>83.827</b>	<b>0.068</b>	<b>6.1</b>	<b>132.9</b>	<b>Flood Risk</b>
480 min Summer	83.827	0.068	6.1	132.2	Flood Risk
600 min Summer	83.826	0.067	6.0	130.6	Flood Risk
720 min Summer	83.825	0.066	5.8	128.5	Flood Risk
960 min Summer	83.822	0.063	5.5	124.0	Flood Risk
1440 min Summer	83.818	0.059	4.9	115.5	Flood Risk
2160 min Summer	83.813	0.054	4.1	105.7	Flood Risk
2880 min Summer	83.809	0.050	3.5	98.9	Flood Risk
4320 min Summer	83.805	0.046	2.8	89.7	Flood Risk
5760 min Summer	83.802	0.043	2.4	83.9	Flood Risk
7200 min Summer	83.800	0.041	2.1	79.8	Flood Risk
8640 min Summer	83.798	0.039	1.9	76.7	Flood Risk
10080 min Summer	83.797	0.038	1.6	74.4	Flood Risk
15 min Winter	83.796	0.037	1.6	72.5	Flood Risk
30 min Winter	83.807	0.048	3.1	93.1	Flood Risk
60 min Winter	83.816	0.057	4.6	112.4	Flood Risk
120 min Winter	83.823	0.064	5.6	126.1	Flood Risk
180 min Winter	83.826	0.067	6.0	130.3	Flood Risk
240 min Winter	83.826	0.067	6.1	132.0	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	49.9	19
30 min Summer	97.472	0.0	69.5	33
60 min Summer	60.820	0.0	107.1	62
120 min Summer	36.554	0.0	130.8	120
180 min Summer	26.928	0.0	145.5	156
240 min Summer	21.556	0.0	155.7	184
<b>360 min Summer</b>	<b>15.584</b>	<b>0.0</b>	<b>169.2</b>	<b>248</b>
480 min Summer	12.284	0.0	177.8	316
600 min Summer	10.177	0.0	183.9	384
720 min Summer	8.708	0.0	188.4	452
960 min Summer	6.785	0.0	194.6	586
1440 min Summer	4.749	0.0	200.6	840
2160 min Summer	3.318	0.0	226.0	1228
2880 min Summer	2.582	0.0	233.6	1612
4320 min Summer	1.834	0.0	243.2	2336
5760 min Summer	1.453	0.0	268.0	3064
7200 min Summer	1.222	0.0	281.5	3816
8640 min Summer	1.067	0.0	293.5	4576
10080 min Summer	0.956	0.0	304.1	5344
15 min Winter	149.405	0.0	49.9	19
30 min Winter	97.472	0.0	69.5	33
60 min Winter	60.820	0.0	107.1	62
120 min Winter	36.554	0.0	130.8	118
180 min Winter	26.928	0.0	145.5	168
240 min Winter	21.556	0.0	155.7	190

241 The Broadway  
London  
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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Overflow (l/s)	Max Volume (m <sup>3</sup> )	Status
360 min Winter	83.827	0.068	6.1	132.4	Flood Risk
480 min Winter	83.826	0.067	6.0	130.4	Flood Risk
600 min Winter	83.824	0.065	5.8	127.6	Flood Risk
720 min Winter	83.823	0.064	5.5	124.5	Flood Risk
960 min Winter	83.819	0.060	5.0	118.4	Flood Risk
1440 min Winter	83.814	0.055	4.3	108.2	Flood Risk
2160 min Winter	83.809	0.050	3.4	97.3	Flood Risk
2880 min Winter	83.805	0.046	2.9	90.1	Flood Risk
4320 min Winter	83.800	0.041	2.2	81.2	Flood Risk
5760 min Winter	83.798	0.039	1.8	75.5	Flood Risk
7200 min Winter	83.795	0.036	1.5	70.7	Flood Risk
8640 min Winter	83.793	0.034	1.3	66.1	Flood Risk
10080 min Winter	83.791	0.032	1.2	62.6	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Overflow Volume (m <sup>3</sup> )	Time-Peak (mins)
360 min Winter	15.584	0.0	169.2	264
480 min Winter	12.284	0.0	177.8	340
600 min Winter	10.177	0.0	183.9	412
720 min Winter	8.708	0.0	188.4	484
960 min Winter	6.785	0.0	194.6	626
1440 min Winter	4.749	0.0	200.6	894
2160 min Winter	3.318	0.0	226.0	1280
2880 min Winter	2.582	0.0	233.5	1656
4320 min Winter	1.834	0.0	243.3	2424
5760 min Winter	1.453	0.0	268.0	3176
7200 min Winter	1.222	0.0	281.5	4032
8640 min Winter	1.067	0.0	293.5	4752
10080 min Winter	0.956	0.0	304.2	5544

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### Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

### Time Area Diagram

Total Area (ha) 0.196

<b>Time (mins)</b>	<b>Area</b>
<b>From: To:</b>	<b>(ha)</b>

0	4	0.196
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Model Details

Storage is Online Cover Level (m) 84.000

Tank or Pond Structure

Invert Level (m) 83.759

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	1958.0	0.151	1958.0

Pipe Overflow Control

Diameter (m) 0.600      Roughness k (mm) 0.600      Upstream Invert Level (m) 83.760  
Slope (1:X) 63.0      Entry Loss Coefficient 0.500  
Length (m) 17.360      Coefficient of Contraction 0.600

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Cascade Summary of Results for Pond 9 piped outfall to NP-SW-03.SRCX

Upstream Structures	Outflow To	Overflow To
Pond 9.SRCX	Downstream Network from NP-SW-03 to NP-SW-OUTFALL.SRCX	(None)
Pond 7.SRCX		
Pond 4.SRCX		
Pond 1.SRCX		
Pond 6.SRCX		
Pond 2.SRCX		
Pond 5.SRCX		
Pond 3.SRCX		

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	82.560	0.000	16.2	0.0	O K
30 min Summer	82.560	0.000	28.0	0.0	O K
60 min Summer	82.560	0.000	42.4	0.0	O K
120 min Summer	82.585	0.025	58.5	0.0	O K
180 min Summer	82.605	0.045	64.6	0.1	O K
240 min Summer	82.611	0.051	65.9	0.1	O K
360 min Summer	82.613	0.053	66.1	0.1	O K
480 min Summer	82.605	0.045	64.6	0.1	O K
600 min Summer	82.596	0.036	61.9	0.0	O K
720 min Summer	82.587	0.027	59.1	0.0	O K
960 min Summer	82.572	0.012	54.4	0.0	O K
1440 min Summer	82.560	0.000	43.1	0.0	O K
2160 min Summer	82.560	0.000	33.7	0.0	O K
2880 min Summer	82.560	0.000	28.0	0.0	O K
4320 min Summer	82.560	0.000	21.3	0.0	O K
5760 min Summer	82.560	0.000	17.3	0.0	O K
7200 min Summer	82.560	0.000	15.0	0.0	O K
8640 min Summer	82.560	0.000	13.4	0.0	O K
10080 min Summer	82.560	0.000	12.1	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Discharge Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	149.405	0.0	360.8	0
30 min Summer	97.472	0.0	501.1	0
60 min Summer	60.820	0.0	676.0	0
120 min Summer	36.554	0.0	828.0	140
180 min Summer	26.928	0.0	922.9	180
240 min Summer	21.556	0.0	989.9	208
360 min Summer	15.584	0.0	1079.2	268
480 min Summer	12.284	0.0	1137.3	330
600 min Summer	10.177	0.0	1179.3	396
720 min Summer	8.708	0.0	1211.6	454
960 min Summer	6.785	0.0	1258.7	590
1440 min Summer	4.749	0.0	1317.9	0
2160 min Summer	3.318	0.0	1411.6	0
2880 min Summer	2.582	0.0	1463.8	0
4320 min Summer	1.834	0.0	1547.2	0
5760 min Summer	1.453	0.0	1665.2	0
7200 min Summer	1.222	0.0	1751.5	0
8640 min Summer	1.067	0.0	1833.8	0
10080 min Summer	0.956	0.0	1904.8	0

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Cascade Summary of Results for Pond 9 piped outfall to NP-SW-03.SRCX

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Winter	82.560	0.000	16.2	0.0	O K
30 min Winter	82.560	0.000	28.0	0.0	O K
60 min Winter	82.560	0.000	42.4	0.0	O K
120 min Winter	82.585	0.025	58.5	0.0	O K
180 min Winter	82.606	0.046	64.9	0.1	O K
240 min Winter	82.610	0.050	65.7	0.1	O K
360 min Winter	82.604	0.044	64.5	0.1	O K
480 min Winter	82.593	0.033	61.0	0.0	O K
600 min Winter	82.580	0.020	56.9	0.0	O K
720 min Winter	82.571	0.011	54.1	0.0	O K
960 min Winter	82.560	0.000	45.3	0.0	O K
1440 min Winter	82.560	0.000	34.6	0.0	O K
2160 min Winter	82.560	0.000	25.9	0.0	O K
2880 min Winter	82.560	0.000	20.7	0.0	O K
4320 min Winter	82.560	0.000	15.2	0.0	O K
5760 min Winter	82.560	0.000	12.2	0.0	O K
7200 min Winter	82.560	0.000	10.4	0.0	O K
8640 min Winter	82.560	0.000	9.1	0.0	O K
10080 min Winter	82.560	0.000	8.2	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Discharge Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Winter	149.405	0.0	360.8	0
30 min Winter	97.472	0.0	501.1	0
60 min Winter	60.820	0.0	676.0	0
120 min Winter	36.554	0.0	828.1	140
180 min Winter	26.928	0.0	922.9	178
240 min Winter	21.556	0.0	989.9	212
360 min Winter	15.584	0.0	1079.2	280
480 min Winter	12.284	0.0	1137.2	342
600 min Winter	10.177	0.0	1179.3	404
720 min Winter	8.708	0.0	1211.5	482
960 min Winter	6.785	0.0	1259.0	0
1440 min Winter	4.749	0.0	1318.1	0
2160 min Winter	3.318	0.0	1411.7	0
2880 min Winter	2.582	0.0	1464.1	0
4320 min Winter	1.834	0.0	1548.5	0
5760 min Winter	1.453	0.0	1665.2	0
7200 min Winter	1.222	0.0	1751.7	0
8640 min Winter	1.067	0.0	1834.4	0
10080 min Winter	0.956	0.0	1907.0	0

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Cascade Rainfall Details for Pond 9 piped outfall to NP-SW-03.SRCX

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

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Cascade Model Details for Pond 9 piped outfall to NP-SW-03.SRCX

Storage is Online Cover Level (m) 83.910

Pipe Structure

Diameter (m) 0.300 Slope (1:X) 65.000 Length (m) 17.951 Invert Level (m) 82.560

Pipe Outflow Control

Diameter (m) 0.300 Roughness k (mm) 0.600 Upstream Invert Level (m) 82.285  
Slope (1:X) 232.0 Entry Loss Coefficient 0.500  
Length (m) 53.315 Coefficient of Contraction 0.600

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Cascade Summary of Results for Downstream Network from NP-SW-03 to NP-SW-OUTFALL.SRCX

Upstream Structures	Outflow To	Overflow To
Pond 8 piped outfall to NP-SW-03.SRCX Pond 8.SRCX	(None)	(None)
Pond 9 piped outfall to NP-SW-03.SRCX Pond 9.SRCX Pond 7.SRCX Pond 4.SRCX Pond 1.SRCX Pond 6.SRCX Pond 2.SRCX Pond 5.SRCX Pond 3.SRCX		

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
15 min Summer	82.285	0.000	16.2	0.0	O K
30 min Summer	82.285	0.000	28.0	0.0	O K
60 min Summer	82.285	0.000	42.5	0.0	O K
120 min Summer	82.285	0.000	58.7	0.0	O K
180 min Summer	82.285	0.000	65.4	0.0	O K
240 min Summer	82.285	0.000	66.6	0.0	O K
360 min Summer	82.285	0.000	66.9	0.0	O K
480 min Summer	82.285	0.000	65.4	0.0	O K
600 min Summer	82.285	0.000	62.7	0.0	O K
720 min Summer	82.285	0.000	60.0	0.0	O K
960 min Summer	82.285	0.000	55.4	0.0	O K
1440 min Summer	82.285	0.000	43.8	0.0	O K
2160 min Summer	82.285	0.000	34.4	0.0	O K
2880 min Summer	82.285	0.000	28.6	0.0	O K
4320 min Summer	82.285	0.000	21.8	0.0	O K
5760 min Summer	82.285	0.000	17.7	0.0	O K
7200 min Summer	82.285	0.000	15.4	0.0	O K
8640 min Summer	82.285	0.000	13.7	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	149.405	0.0	360.8	0
30 min Summer	97.472	0.0	501.1	0
60 min Summer	60.820	0.0	678.8	0
120 min Summer	36.554	0.0	834.0	0
180 min Summer	26.928	0.0	931.0	0
240 min Summer	21.556	0.0	999.5	0
360 min Summer	15.584	0.0	1090.8	0
480 min Summer	12.284	0.0	1150.1	0
600 min Summer	10.177	0.0	1193.0	0
720 min Summer	8.708	0.0	1226.2	0
960 min Summer	6.785	0.0	1274.3	0
1440 min Summer	4.749	0.0	1334.9	0
2160 min Summer	3.318	0.0	1430.2	0
2880 min Summer	2.582	0.0	1483.6	0
4320 min Summer	1.834	0.0	1569.2	0
5760 min Summer	1.453	0.0	1689.1	0
7200 min Summer	1.222	0.0	1777.4	0
8640 min Summer	1.067	0.0	1861.6	0

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Cascade Summary of Results for Downstream Network from NP-SW-03 to NP-SW-OUTFALL.SRCX

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m <sup>3</sup> )	Status
10080 min Summer	82.285	0.000	12.5	0.0	O K
15 min Winter	82.285	0.000	16.2	0.0	O K
30 min Winter	82.285	0.000	28.0	0.0	O K
60 min Winter	82.285	0.000	42.5	0.0	O K
120 min Winter	82.285	0.000	58.7	0.0	O K
180 min Winter	82.285	0.000	65.7	0.0	O K
240 min Winter	82.285	0.000	66.4	0.0	O K
360 min Winter	82.285	0.000	65.4	0.0	O K
480 min Winter	82.285	0.000	61.9	0.0	O K
600 min Winter	82.285	0.000	57.8	0.0	O K
720 min Winter	82.285	0.000	55.1	0.0	O K
960 min Winter	82.285	0.000	46.0	0.0	O K
1440 min Winter	82.285	0.000	35.3	0.0	O K
2160 min Winter	82.285	0.000	26.5	0.0	O K
2880 min Winter	82.285	0.000	21.3	0.0	O K
4320 min Winter	82.285	0.000	15.6	0.0	O K
5760 min Winter	82.285	0.000	12.6	0.0	O K
7200 min Winter	82.285	0.000	10.6	0.0	O K
8640 min Winter	82.285	0.000	9.3	0.0	O K
10080 min Winter	82.285	0.000	8.4	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Discharge Volume (m <sup>3</sup> )	Time-Peak (mins)
10080 min Summer	0.956	0.0	1934.4	0
15 min Winter	149.405	0.0	360.8	0
30 min Winter	97.472	0.0	501.1	0
60 min Winter	60.820	0.0	678.8	0
120 min Winter	36.554	0.0	834.1	0
180 min Winter	26.928	0.0	931.0	0
240 min Winter	21.556	0.0	999.5	0
360 min Winter	15.584	0.0	1090.7	0
480 min Winter	12.284	0.0	1150.1	0
600 min Winter	10.177	0.0	1193.1	0
720 min Winter	8.708	0.0	1226.0	0
960 min Winter	6.785	0.0	1274.6	0
1440 min Winter	4.749	0.0	1335.2	0
2160 min Winter	3.318	0.0	1430.3	0
2880 min Winter	2.582	0.0	1483.9	0
4320 min Winter	1.834	0.0	1570.4	0
5760 min Winter	1.453	0.0	1689.2	0
7200 min Winter	1.222	0.0	1777.6	0
8640 min Winter	1.067	0.0	1862.1	0
10080 min Winter	0.956	0.0	1936.6	0

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Cascade Rainfall Details for Downstream Network from NP-SW-03 to NP-SW-OUTFALL.SRCX

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 455061 221552 SP 55061 21552
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40



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Cascade Model Details for Downstream Network from NP-SW-03 to NP-SW-OUTFALL.SRCX

Storage is Online Cover Level (m) 83.800

Pipe Structure

Diameter (m) 0.300 Slope (1:X) 244.000 Length (m) 459.179 Invert Level (m) 82.285

Pipe Outflow Control

Diameter (m) 0.300 Roughness k (mm) 0.600 Upstream Invert Level (m) 80.400  
Slope (1:X) 300.0 Entry Loss Coefficient 0.500  
Length (m) 10.000 Coefficient of Contraction 0.600

G Main Resort - Drainage drawings, details and  
exceedance route