

C. Drainage/SUDs Calculation and Catchment Areas

Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2	33	44.047	0.191	4.5	0.3541	0.0000	SURCHARGED
60 minute summer	5553	33	44.035	0.327	4.5	0.3698	0.0000	OK
60 minute summer	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute summer	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute summer	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute summer	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14	34	43.100	0.055	4.4	0.0625	0.0000	OK
60 minute summer	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17	33	44.003	0.033	2.2	0.0490	0.0000	OK
60 minute summer	18	33	43.990	0.037	2.7	0.0576	0.0000	OK
60 minute summer	19	33	43.931	0.044	4.5	0.0815	0.0000	OK
60 minute summer	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14_OUT	34	43.078	0.051	4.4	0.0000	0.0000	OK
60 minute summer	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17_OUT	33	43.906	0.031	2.2	0.0000	0.0000	OK
60 minute summer	18_OUT	33	43.898	0.034	2.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	5553	0.0	0.000	0.000	0.0697	
60 minute summer	2	2.000	5553	4.5	0.440	0.251	0.2587	
60 minute summer	5553	1.001	14	4.4	0.799	0.085	0.1298	
60 minute summer	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute summer	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute summer	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute summer	10	3.002	14	0.0	0.000	0.000	0.2089	
60 minute summer	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute summer	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute summer	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute summer	14	1.002	14_OUT	4.4	0.621	0.112	0.0223	4.0
60 minute summer	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	17	9.000	17_OUT	2.2	0.806	0.094	0.0151	2.3
60 minute summer	18	10.000	18_OUT	2.7	0.850	0.116	0.0165	2.9
60 minute summer	19	11.000	19_OUT	4.5	1.084	0.173	0.0544	4.7
60 minute summer	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	19_OUT	33	43.650	0.042	4.5	0.0000	0.0000	OK
60 minute summer	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.66%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2	34	44.034	0.178	3.2	0.3309	0.0000	SURCHARGED
60 minute winter	5553	34	44.028	0.320	3.2	0.3622	0.0000	OK
60 minute winter	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute winter	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute winter	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute winter	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute winter	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14	35	43.092	0.047	3.2	0.0527	0.0000	OK
60 minute winter	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17	33	43.998	0.028	1.6	0.0416	0.0000	OK
60 minute winter	18	33	43.983	0.030	1.9	0.0479	0.0000	OK
60 minute winter	19	33	43.924	0.037	3.2	0.0682	0.0000	OK
60 minute winter	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14_OUT	35	43.070	0.043	3.2	0.0000	0.0000	OK
60 minute winter	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17_OUT	33	43.902	0.027	1.6	0.0000	0.0000	OK
60 minute winter	18_OUT	33	43.893	0.029	1.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	5553	0.0	0.000	0.000	0.0473	
60 minute winter	2	2.000	5553	3.2	0.430	0.180	0.2587	
60 minute winter	5553	1.001	14	3.2	0.726	0.061	0.1031	
60 minute winter	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute winter	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute winter	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute winter	10	3.002	14	0.0	0.000	0.000	0.1642	
60 minute winter	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute winter	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute winter	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute winter	14	1.002	14_OUT	3.2	0.569	0.081	0.0176	3.9
60 minute winter	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	17	9.000	17_OUT	1.6	0.737	0.069	0.0120	2.3
60 minute winter	18	10.000	18_OUT	1.9	0.773	0.081	0.0127	2.8
60 minute winter	19	11.000	19_OUT	3.2	0.986	0.123	0.0425	4.7
60 minute winter	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.66%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute winter	19_OUT	33	43.644	0.036	3.2	0.0000	0.0000	OK
60 minute winter	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
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Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2	33	44.155	0.299	12.4	0.5553	0.0000	SURCHARGED
60 minute summer	5553	34	44.066	0.358	12.3	0.4052	0.0000	OK
60 minute summer	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute summer	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute summer	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute summer	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14	34	43.141	0.096	12.2	0.1085	0.0000	OK
60 minute summer	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17	33	44.027	0.057	6.1	0.0855	0.0000	OK
60 minute summer	18	33	44.017	0.064	7.4	0.1010	0.0000	OK
60 minute summer	19	33	43.964	0.077	12.2	0.1434	0.0000	OK
60 minute summer	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14_OUT	34	43.112	0.085	12.2	0.0000	0.0000	OK
60 minute summer	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17_OUT	33	43.927	0.052	6.1	0.0000	0.0000	OK
60 minute summer	18_OUT	33	43.922	0.058	7.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	5553	0.0	0.000	0.000	0.2000	
60 minute summer	2	2.000	5553	12.3	0.701	0.692	0.2587	
60 minute summer	5553	1.001	14	12.2	1.059	0.234	0.2707	
60 minute summer	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute summer	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute summer	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute summer	10	3.002	14	0.0	0.000	0.000	0.4462	
60 minute summer	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute summer	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute summer	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute summer	14	1.002	14_OUT	12.2	0.816	0.311	0.0469	12.3
60 minute summer	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	17	9.000	17_OUT	6.1	1.053	0.261	0.0321	6.5
60 minute summer	18	10.000	18_OUT	7.4	1.101	0.317	0.0348	7.8
60 minute summer	19	11.000	19_OUT	12.2	1.400	0.469	0.1141	12.9
60 minute summer	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	19_OUT	33	43.680	0.072	12.2	0.0000	0.0000	OK
60 minute summer	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2	33	44.100	0.244	8.9	0.4535	0.0000	SURCHARGED
60 minute winter	5553	33	44.054	0.346	8.9	0.3915	0.0000	OK
60 minute winter	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute winter	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute winter	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute winter	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute winter	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14	34	43.125	0.080	8.8	0.0907	0.0000	OK
60 minute winter	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17	32	44.017	0.047	4.3	0.0702	0.0000	OK
60 minute winter	18	33	44.006	0.053	5.3	0.0833	0.0000	OK
60 minute winter	19	33	43.950	0.063	8.7	0.1172	0.0000	OK
60 minute winter	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14_OUT	34	43.099	0.072	8.8	0.0000	0.0000	OK
60 minute winter	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17_OUT	32	43.919	0.044	4.3	0.0000	0.0000	OK
60 minute winter	18_OUT	33	43.913	0.049	5.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	5553	0.0	0.000	0.000	0.1457	
60 minute winter	2	2.000	5553	8.9	0.505	0.499	0.2587	
60 minute winter	5553	1.001	14	8.8	0.970	0.169	0.2137	
60 minute winter	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute winter	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute winter	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute winter	10	3.002	14	0.0	0.000	0.000	0.3509	
60 minute winter	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute winter	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute winter	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute winter	14	1.002	14_OUT	8.8	0.749	0.225	0.0370	12.1
60 minute winter	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	17	9.000	17_OUT	4.3	0.963	0.184	0.0247	6.4
60 minute winter	18	10.000	18_OUT	5.3	1.013	0.227	0.0271	7.7
60 minute winter	19	11.000	19_OUT	8.7	1.289	0.334	0.0883	12.7
60 minute winter	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	19_OUT	33	43.668	0.060	8.7	0.0000	0.0000	OK
60 minute winter	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2	33	44.227	0.371	16.1	0.6882	0.0000	SURCHARGED
60 minute summer	5553	34	44.078	0.370	16.0	0.4185	0.0000	OK
60 minute summer	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute summer	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute summer	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute summer	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14	34	43.157	0.112	15.9	0.1262	0.0000	OK
60 minute summer	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17	33	44.036	0.066	7.9	0.0994	0.0000	OK
60 minute summer	18	33	44.028	0.075	9.5	0.1175	0.0000	OK
60 minute summer	19	33	43.978	0.091	15.8	0.1695	0.0000	OK
60 minute summer	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14_OUT	34	43.125	0.098	15.8	0.0000	0.0000	OK
60 minute summer	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17_OUT	33	43.935	0.060	7.9	0.0000	0.0000	OK
60 minute summer	18_OUT	33	43.931	0.067	9.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	5553	0.0	0.000	0.000	0.2566	
60 minute summer	2	2.000	5553	16.0	0.907	0.896	0.2587	
60 minute summer	5553	1.001	14	15.9	1.134	0.304	0.3278	
60 minute summer	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute summer	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute summer	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute summer	10	3.002	14	0.0	0.000	0.000	0.5436	
60 minute summer	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute summer	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute summer	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute summer	14	1.002	14_OUT	15.8	0.871	0.403	0.0569	16.2
60 minute summer	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	17	9.000	17_OUT	7.9	1.122	0.339	0.0390	8.4
60 minute summer	18	10.000	18_OUT	9.5	1.168	0.407	0.0421	10.1
60 minute summer	19	11.000	19_OUT	15.8	1.482	0.607	0.1395	16.7
60 minute summer	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	19_OUT	33	43.692	0.084	15.8	0.0000	0.0000	OK
60 minute summer	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 100 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2	33	44.140	0.284	11.5	0.5282	0.0000	SURCHARGED
60 minute winter	5553	34	44.064	0.356	11.5	0.4022	0.0000	OK
60 minute winter	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute winter	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute winter	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute winter	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute winter	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14	34	43.137	0.092	11.4	0.1046	0.0000	OK
60 minute winter	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17	33	44.024	0.054	5.6	0.0814	0.0000	OK
60 minute winter	18	33	44.014	0.061	6.8	0.0961	0.0000	OK
60 minute winter	19	33	43.960	0.073	11.3	0.1368	0.0000	OK
60 minute winter	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14_OUT	34	43.109	0.082	11.4	0.0000	0.0000	OK
60 minute winter	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17_OUT	33	43.925	0.050	5.6	0.0000	0.0000	OK
60 minute winter	18_OUT	33	43.919	0.055	6.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	5553	0.0	0.000	0.000	0.1878	
60 minute winter	2	2.000	5553	11.5	0.652	0.644	0.2587	
60 minute winter	5553	1.001	14	11.4	1.039	0.219	0.2579	
60 minute winter	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute winter	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute winter	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute winter	10	3.002	14	0.0	0.000	0.000	0.4250	
60 minute winter	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute winter	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute winter	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute winter	14	1.002	14_OUT	11.4	0.802	0.291	0.0447	16.0
60 minute winter	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	17	9.000	17_OUT	5.6	1.030	0.240	0.0301	8.3
60 minute winter	18	10.000	18_OUT	6.8	1.078	0.291	0.0327	10.0
60 minute winter	19	11.000	19_OUT	11.3	1.374	0.434	0.1076	16.5
60 minute winter	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 100 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	19_OUT	33	43.677	0.069	11.3	0.0000	0.0000	OK
60 minute winter	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2	33	44.384	0.528	22.6	0.9812	0.0000	SURCHARGED
60 minute summer	5553	34	44.097	0.389	22.2	0.4398	0.0000	OK
60 minute summer	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute summer	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute summer	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute summer	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14	34	43.182	0.137	22.2	0.1553	0.0000	OK
60 minute summer	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17	33	44.051	0.081	11.0	0.1220	0.0000	OK
60 minute summer	18	33	44.046	0.093	13.3	0.1461	0.0000	OK
60 minute summer	19	33	44.004	0.117	22.1	0.2196	0.0000	OK
60 minute summer	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14_OUT	34	43.146	0.119	22.0	0.0000	0.0000	OK
60 minute summer	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17_OUT	33	43.947	0.072	11.0	0.0000	0.0000	OK
60 minute summer	18_OUT	33	43.945	0.081	13.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	5553	0.0	0.000	0.000	0.3518	
60 minute summer	2	2.000	5553	22.2	1.262	1.247	0.2587	
60 minute summer	5553	1.001	14	22.2	1.233	0.425	0.4210	
60 minute summer	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute summer	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute summer	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute summer	10	3.002	14	0.0	0.000	0.000	0.7021	
60 minute summer	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute summer	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute summer	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute summer	14	1.002	14_OUT	22.0	0.942	0.561	0.0732	23.0
60 minute summer	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	17	9.000	17_OUT	11.0	1.212	0.471	0.0502	11.7
60 minute summer	18	10.000	18_OUT	13.3	1.259	0.570	0.0547	14.1
60 minute summer	19	11.000	19_OUT	22.1	1.571	0.849	0.1839	23.4
60 minute summer	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	19_OUT	33	43.714	0.106	22.1	0.0000	0.0000	OK
60 minute summer	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2	33	44.229	0.373	16.1	0.6919	0.0000	SURCHARGED
60 minute winter	5553	34	44.079	0.371	16.0	0.4191	0.0000	OK
60 minute winter	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute winter	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute winter	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute winter	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute winter	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14	34	43.157	0.112	16.0	0.1270	0.0000	OK
60 minute winter	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17	33	44.036	0.066	7.9	0.0994	0.0000	OK
60 minute winter	18	33	44.028	0.075	9.5	0.1175	0.0000	OK
60 minute winter	19	33	43.978	0.091	15.8	0.1695	0.0000	OK
60 minute winter	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14_OUT	34	43.126	0.099	16.0	0.0000	0.0000	OK
60 minute winter	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17_OUT	33	43.935	0.060	7.9	0.0000	0.0000	OK
60 minute winter	18_OUT	33	43.931	0.067	9.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	5553	0.0	0.000	0.000	0.2591	
60 minute winter	2	2.000	5553	16.0	0.911	0.900	0.2587	
60 minute winter	5553	1.001	14	16.0	1.136	0.307	0.3301	
60 minute winter	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute winter	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute winter	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute winter	10	3.002	14	0.0	0.000	0.000	0.5481	
60 minute winter	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute winter	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute winter	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute winter	14	1.002	14_OUT	16.0	0.874	0.407	0.0574	22.8
60 minute winter	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	17	9.000	17_OUT	7.9	1.122	0.339	0.0390	11.6
60 minute winter	18	10.000	18_OUT	9.5	1.168	0.407	0.0421	14.0
60 minute winter	19	11.000	19_OUT	15.8	1.482	0.607	0.1395	23.1
60 minute winter	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.02%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2	33	44.030	0.174	2.8	0.2737	0.0000	SURCHARGED
60 minute summer	5553	33	44.025	0.317	2.8	0.3588	0.0000	OK
60 minute summer	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute summer	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute summer	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute summer	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14	34	43.101	0.056	4.6	0.0742	0.0000	OK
60 minute summer	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17	1	43.970	0.000	0.0	0.0000	0.0000	OK
60 minute summer	18	1	43.953	0.000	0.0	0.0000	0.0000	OK
60 minute summer	19	1	43.887	0.000	0.0	0.0000	0.0000	OK
60 minute summer	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14_OUT	34	43.078	0.051	4.5	0.0000	0.0000	OK
60 minute summer	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17_OUT	1	43.875	0.000	0.0	0.0000	0.0000	OK
60 minute summer	18_OUT	1	43.864	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	5553	0.0	0.000	0.000	0.0381	
60 minute summer	2	2.000	5553	2.8	0.398	0.156	0.2587	
60 minute summer	5553	1.001	14	2.7	0.694	0.052	0.0916	
60 minute summer	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute summer	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute summer	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute summer	10	3.002	14	0.0	0.000	0.000	0.2137	
60 minute summer	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute summer	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute summer	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute summer	14	1.002	14_OUT	4.5	0.627	0.116	0.0228	4.2
60 minute summer	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	17	9.000	17_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	18	10.000	18_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	19	11.000	19_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.02%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	19_OUT	1	43.608	0.000	0.0	0.0000	0.0000	OK
60 minute summer	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
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Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.01%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2	33	44.022	0.166	2.0	0.2622	0.0000	SURCHARGED
60 minute winter	5553	33	44.020	0.312	2.0	0.3530	0.0000	OK
60 minute winter	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute winter	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute winter	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute winter	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute winter	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14	34	43.093	0.048	3.4	0.0633	0.0000	OK
60 minute winter	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17	1	43.970	0.000	0.0	0.0000	0.0000	OK
60 minute winter	18	1	43.953	0.000	0.0	0.0000	0.0000	OK
60 minute winter	19	1	43.887	0.000	0.0	0.0000	0.0000	OK
60 minute winter	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14_OUT	34	43.071	0.044	3.4	0.0000	0.0000	OK
60 minute winter	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17_OUT	1	43.875	0.000	0.0	0.0000	0.0000	OK
60 minute winter	18_OUT	1	43.864	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	5553	0.0	0.000	0.000	0.0240	
60 minute winter	2	2.000	5553	2.0	0.411	0.112	0.2587	
60 minute winter	5553	1.001	14	2.0	0.630	0.038	0.0730	
60 minute winter	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute winter	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute winter	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute winter	10	3.002	14	0.0	0.000	0.000	0.1705	
60 minute winter	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute winter	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute winter	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute winter	14	1.002	14_OUT	3.4	0.576	0.085	0.0183	4.1
60 minute winter	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	17	9.000	17_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	18	10.000	18_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	19	11.000	19_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.01%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute winter	19_OUT	1	43.608	0.000	0.0	0.0000	0.0000	OK
60 minute winter	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
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Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2	33	44.082	0.226	7.6	0.3566	0.0000	SURCHARGED
60 minute summer	5553	33	44.049	0.341	7.6	0.3855	0.0000	OK
60 minute summer	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute summer	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute summer	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute summer	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14	34	43.143	0.098	12.8	0.1294	0.0000	OK
60 minute summer	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17	1	43.970	0.000	0.0	0.0000	0.0000	OK
60 minute summer	18	1	43.953	0.000	0.0	0.0000	0.0000	OK
60 minute summer	19	1	43.887	0.000	0.0	0.0000	0.0000	OK
60 minute summer	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14_OUT	34	43.114	0.087	12.7	0.0000	0.0000	OK
60 minute summer	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17_OUT	1	43.875	0.000	0.0	0.0000	0.0000	OK
60 minute summer	18_OUT	1	43.864	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	5553	0.0	0.000	0.000	0.1234	
60 minute summer	2	2.000	5553	7.6	0.490	0.425	0.2587	
60 minute summer	5553	1.001	14	7.5	0.926	0.144	0.1897	
60 minute summer	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute summer	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute summer	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute summer	10	3.002	14	0.0	0.000	0.000	0.4589	
60 minute summer	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute summer	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute summer	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute summer	14	1.002	14_OUT	12.7	0.825	0.323	0.0482	12.9
60 minute summer	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	17	9.000	17_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	18	10.000	18_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	19	11.000	19_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	19_OUT	1	43.608	0.000	0.0	0.0000	0.0000	OK
60 minute summer	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
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Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2	33	44.057	0.201	5.4	0.3159	0.0000	SURCHARGED
60 minute winter	5553	33	44.040	0.332	5.4	0.3750	0.0000	OK
60 minute winter	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute winter	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute winter	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute winter	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute winter	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14	33	43.127	0.082	9.2	0.1077	0.0000	OK
60 minute winter	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17	1	43.970	0.000	0.0	0.0000	0.0000	OK
60 minute winter	18	1	43.953	0.000	0.0	0.0000	0.0000	OK
60 minute winter	19	1	43.887	0.000	0.0	0.0000	0.0000	OK
60 minute winter	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14_OUT	34	43.100	0.073	9.1	0.0000	0.0000	OK
60 minute winter	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17_OUT	1	43.875	0.000	0.0	0.0000	0.0000	OK
60 minute winter	18_OUT	1	43.864	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	5553	0.0	0.000	0.000	0.0866	
60 minute winter	2	2.000	5553	5.4	0.482	0.303	0.2587	
60 minute winter	5553	1.001	14	5.4	0.844	0.103	0.1491	
60 minute winter	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute winter	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute winter	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute winter	10	3.002	14	0.0	0.000	0.000	0.3589	
60 minute winter	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute winter	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute winter	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute winter	14	1.002	14_OUT	9.1	0.755	0.232	0.0379	12.7
60 minute winter	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	17	9.000	17_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	18	10.000	18_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	19	11.000	19_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute winter	19_OUT	1	43.608	0.000	0.0	0.0000	0.0000	OK
60 minute winter	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
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Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2	33	44.115	0.259	9.9	0.4072	0.0000	SURCHARGED
60 minute summer	5553	33	44.058	0.350	9.9	0.3955	0.0000	OK
60 minute summer	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute summer	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute summer	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute summer	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14	34	43.159	0.114	16.7	0.1508	0.0000	OK
60 minute summer	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17	1	43.970	0.000	0.0	0.0000	0.0000	OK
60 minute summer	18	1	43.953	0.000	0.0	0.0000	0.0000	OK
60 minute summer	19	1	43.887	0.000	0.0	0.0000	0.0000	OK
60 minute summer	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14_OUT	34	43.128	0.101	16.4	0.0000	0.0000	OK
60 minute summer	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17_OUT	1	43.875	0.000	0.0	0.0000	0.0000	OK
60 minute summer	18_OUT	1	43.864	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	5553	0.0	0.000	0.000	0.1610	
60 minute summer	2	2.000	5553	9.9	0.561	0.554	0.2587	
60 minute summer	5553	1.001	14	9.8	0.996	0.187	0.2298	
60 minute summer	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute summer	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute summer	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute summer	10	3.002	14	0.0	0.000	0.000	0.5596	
60 minute summer	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute summer	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute summer	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute summer	14	1.002	14_OUT	16.4	0.880	0.419	0.0586	16.9
60 minute summer	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	17	9.000	17_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	18	10.000	18_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	19	11.000	19_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	19_OUT	1	43.608	0.000	0.0	0.0000	0.0000	OK
60 minute summer	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 100 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2	33	44.075	0.219	7.0	0.3452	0.0000	SURCHARGED
60 minute winter	5553	33	44.047	0.339	7.0	0.3831	0.0000	OK
60 minute winter	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute winter	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute winter	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute winter	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute winter	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14	34	43.139	0.094	11.9	0.1243	0.0000	OK
60 minute winter	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17	1	43.970	0.000	0.0	0.0000	0.0000	OK
60 minute winter	18	1	43.953	0.000	0.0	0.0000	0.0000	OK
60 minute winter	19	1	43.887	0.000	0.0	0.0000	0.0000	OK
60 minute winter	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14_OUT	34	43.111	0.084	11.8	0.0000	0.0000	OK
60 minute winter	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17_OUT	1	43.875	0.000	0.0	0.0000	0.0000	OK
60 minute winter	18_OUT	1	43.864	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	5553	0.0	0.000	0.000	0.1143	
60 minute winter	2	2.000	5553	7.0	0.474	0.392	0.2587	
60 minute winter	5553	1.001	14	7.0	0.907	0.134	0.1800	
60 minute winter	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute winter	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute winter	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute winter	10	3.002	14	0.0	0.000	0.000	0.4353	
60 minute winter	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute winter	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute winter	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute winter	14	1.002	14_OUT	11.8	0.810	0.301	0.0458	16.7
60 minute winter	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	17	9.000	17_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	18	10.000	18_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	19	11.000	19_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 100 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute winter	19_OUT	1	43.608	0.000	0.0	0.0000	0.0000	OK
60 minute winter	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
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Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2	33	44.181	0.325	13.8	0.5120	0.0000	SURCHARGED
60 minute summer	5553	33	44.071	0.363	13.7	0.4104	0.0000	OK
60 minute summer	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute summer	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute summer	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute summer	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14	34	43.186	0.141	23.3	0.1866	0.0000	OK
60 minute summer	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17	1	43.970	0.000	0.0	0.0000	0.0000	OK
60 minute summer	18	1	43.953	0.000	0.0	0.0000	0.0000	OK
60 minute summer	19	1	43.887	0.000	0.0	0.0000	0.0000	OK
60 minute summer	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute summer	14_OUT	34	43.150	0.122	23.0	0.0000	0.0000	OK
60 minute summer	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute summer	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute summer	17_OUT	1	43.875	0.000	0.0	0.0000	0.0000	OK
60 minute summer	18_OUT	1	43.864	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	5553	0.0	0.000	0.000	0.2219	
60 minute summer	2	2.000	5553	13.7	0.781	0.771	0.2587	
60 minute summer	5553	1.001	14	13.6	1.089	0.261	0.2926	
60 minute summer	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute summer	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute summer	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute summer	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute summer	10	3.002	14	0.0	0.000	0.000	0.7263	
60 minute summer	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute summer	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute summer	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute summer	14	1.002	14_OUT	23.0	0.952	0.586	0.0758	24.1
60 minute summer	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	17	9.000	17_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	18	10.000	18_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	19	11.000	19_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute summer	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	19_OUT	1	43.608	0.000	0.0	0.0000	0.0000	OK
60 minute summer	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
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Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	1	44.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2	33	44.115	0.259	9.9	0.4079	0.0000	SURCHARGED
60 minute winter	5553	33	44.058	0.350	9.9	0.3958	0.0000	OK
60 minute winter	4	1	44.024	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5	1	44.076	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3	1	43.629	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7	1	43.974	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	1	43.798	0.000	0.0	0.0000	0.0000	OK
60 minute winter	9	1	43.672	0.000	0.0	0.0000	0.0000	OK
60 minute winter	10	1	43.371	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	1	43.989	0.000	0.0	0.0000	0.0000	OK
60 minute winter	12	1	43.847	0.000	0.0	0.0000	0.0000	OK
60 minute winter	13	1	43.813	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14	34	43.160	0.115	16.7	0.1523	0.0000	OK
60 minute winter	15	1	43.943	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16	1	43.921	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17	1	43.970	0.000	0.0	0.0000	0.0000	OK
60 minute winter	18	1	43.953	0.000	0.0	0.0000	0.0000	OK
60 minute winter	19	1	43.887	0.000	0.0	0.0000	0.0000	OK
60 minute winter	20	1	43.956	0.000	0.0	0.0000	0.0000	OK
60 minute winter	14_OUT	34	43.128	0.101	16.7	0.0000	0.0000	OK
60 minute winter	15_OUT	1	43.898	0.000	0.0	0.0000	0.0000	OK
60 minute winter	16_OUT	1	43.793	0.000	0.0	0.0000	0.0000	OK
60 minute winter	17_OUT	1	43.875	0.000	0.0	0.0000	0.0000	OK
60 minute winter	18_OUT	1	43.864	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	5553	0.0	0.000	0.000	0.1622	
60 minute winter	2	2.000	5553	9.9	0.562	0.555	0.2587	
60 minute winter	5553	1.001	14	9.8	0.998	0.189	0.2311	
60 minute winter	4	3.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	5	4.000	3	0.0	0.000	0.000	0.0000	
60 minute winter	3	3.001	10	0.0	0.000	0.000	0.0000	
60 minute winter	7	5.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	5.001	9	0.0	0.000	0.000	0.0000	
60 minute winter	9	5.002	10	0.0	0.000	0.000	0.0000	
60 minute winter	10	3.002	14	0.0	0.000	0.000	0.5663	
60 minute winter	11	6.000	12	0.0	0.000	0.000	0.0000	
60 minute winter	12	6.001	13	0.0	0.000	0.000	0.0000	
60 minute winter	13	6.002	14	0.0	0.000	0.000	0.0000	
60 minute winter	14	1.002	14_OUT	16.7	0.883	0.425	0.0593	23.8
60 minute winter	15	7.000	15_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	16	8.000	16_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	17	9.000	17_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	18	10.000	18_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	19	11.000	19_OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	20	12.000	20_OUT	0.0	0.000	0.000	0.0000	0.0

Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	19_OUT	1	43.608	0.000	0.0	0.0000	0.0000	OK
60 minute winter	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	19_OUT	33	43.692	0.084	15.8	0.0000	0.0000	OK
60 minute winter	20_OUT	1	43.638	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Design Settings

Rainfall Methodology	FEH-13	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	0.750	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	15.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
Storage	0.088	5.00	45.430	300	0.430

Node Storage Online Orifice Control

Flap Valve	x	Design Depth (m)	0.480	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	2.1		
Invert Level (m)	45.000	Diameter (m)	0.043		

Node Storage Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	45.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	130.0	0.0	0.300	130.0	0.0	0.301	0.0	0.0

Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	Storage	60	45.050	0.050	7.2	6.4419	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
60 minute summer	Storage	Orifice	0.7	5.6

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	Storage	62	45.142	0.142	19.7	18.1108	0.0000	OK
Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m³)				
60 minute summer	Storage	Orifice	1.3	15.9				

Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	Storage	62	45.186	0.186	25.5	23.7596	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
60 minute summer	Storage	Orifice	1.6	19.7

Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	Storage	62	45.264	0.264	35.7	33.7277	0.0000	OK
Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)				
60 minute summer	Storage	Orifice	1.9	25.2				

Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	Storage	160	45.070	0.070	3.7	8.9711	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute summer	Storage	Orifice	0.9	11.7

Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	Storage	172	45.155	0.155	7.8	19.7766	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute summer	Storage	Orifice	1.4	24.8

Results for 100 year Critical Storm Duration. Lowest mass balance: 100.00%

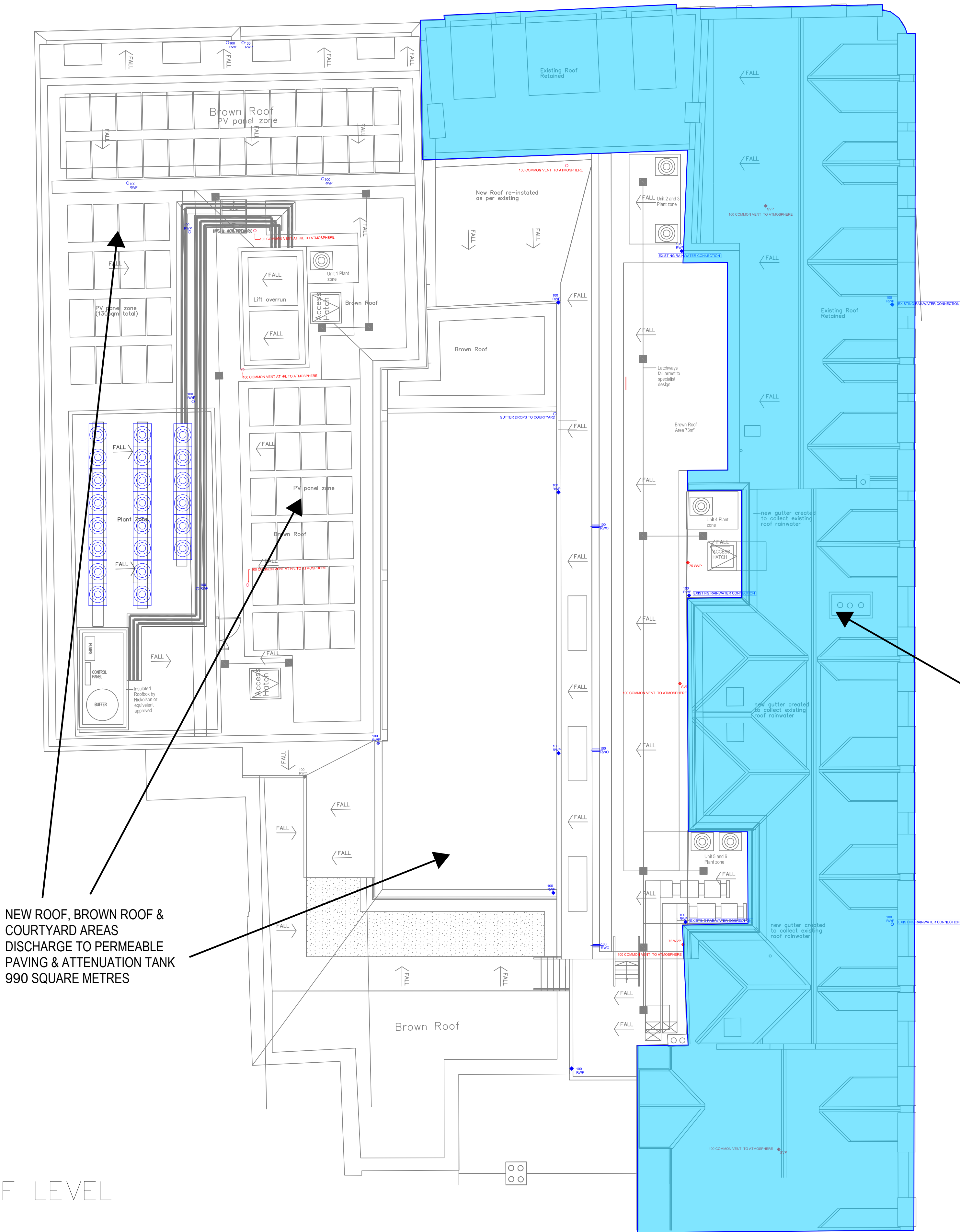
Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	Storage	176	45.198	0.198	9.8	25.3365	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute summer	Storage	Orifice	1.6	30.1

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	Storage	184	45.286	0.286	13.7	36.5014	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute summer	Storage	Orifice	2.0	39.1



NEW ROOF, BROWN ROOF & COURTYARD AREAS DISCHARGE TO PERMEABLE PAVING & ATTENUATION TANK 990 SQUARE METRES

EXISTING ROOF RETAINED AS PART OF THE PROPOSED SITE 510 SQUARE METRES

ROOF LEVEL

NOTES

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PRELIMINARY

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Drawing title:
CATCHMENT AREAS

Date: 0/2022		Scale at A1: 1:100			Scale at A3:		
Drawn by: jdh		Designed by jdh			Chk'd by:		
PROJECT	ORIGINATOR	ZONE	LEVEL	TYPE	ROLE	NUMBER	REVISION
01044 - ASL - ZZ - ZZ - DR - D - 0602 - P3							