



Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Inverts
Additional Flow (%)	10	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	150.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SWMH 01	0.071	4.00	97.200	1050	430047.566	333959.755	1.798
SWMH 02	0.059	4.00	97.200	1050	430058.489	333941.572	2.222
SWMH 03	0.022	4.00	96.500	1050	430008.768	333911.204	2.007
SWMH 04	0.078	4.00	96.900	1200	430022.719	333919.569	2.450
Outfall			94.670	1200	430007.874	333943.843	1.290
Tank			97.200	1	430042.636	333931.819	2.429
Permeable Paving 2		5.00	96.880	1	430042.428	333964.355	1.340
SWMH 14	0.013	5.00	97.250	450	430054.680	333947.912	2.124
Permeable Paving 3		5.00	96.480	450	430067.681	333949.291	1.350
SWMH 19			96.150	450	429997.720	333904.579	1.558
SWMH 20	0.037	5.00	96.150	450	430000.685	333899.684	1.520
SWMH 21		5.00	96.150	450	430009.255	333884.995	1.350
SWMH 22	0.039	5.00	96.500	450	430025.121	333883.714	1.275
SWMH 23	0.004	5.00	96.700	450	430031.081	333874.144	1.400
SWMH 24	0.016	5.00	97.260	450	430052.272	333886.787	1.199
SWMH 25	0.033	5.00	97.820	450	430069.090	333896.840	1.628
SWMH 26	0.035	5.00	98.100	450	430086.150	333906.655	1.600
Permeable Paving 1	0.006	5.00	96.630	1	430017.343	333896.789	1.687

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.001	Permeable Paving 2	SWMH 01	6.896	0.600	95.540	95.402	0.138	50.0	150	5.08	150.0
1.002	SWMH 01	SWMH 14	13.815	0.600	95.402	95.126	0.276	50.0	300	5.18	150.0
1.003	SWMH 14	SWMH 02	7.396	0.600	95.126	94.978	0.148	50.0	300	5.24	150.0
1.004	SWMH 02	Tank	18.613	0.600	94.978	94.771	0.207	90.0	300	5.43	150.0
1.005	Tank	SWMH 04	23.383	0.600	94.771	94.511	0.260	90.0	300	5.66	150.0
1.006	SWMH 03	SWMH 04	16.267	0.600	94.493	94.450	0.043	375.0	375	6.72	150.0
1.007	SWMH 19	SWMH 03	12.882	0.600	94.592	94.493	0.099	130.0	150	5.73	150.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.001	1.426	25.2	0.0	1.190	1.648	0.000	0.0	0	0.000
1.002	2.228	157.5	42.3	1.498	1.824	0.071	0.0	106	1.899
1.003	2.228	157.5	50.1	1.824	1.922	0.084	0.0	116	1.985
1.004	1.658	117.2	85.3	1.922	2.129	0.143	0.0	190	1.802
1.005	1.658	117.2	85.3	2.129	2.089	0.143	0.0	190	1.802
1.006	0.929	102.7	114.5	1.632	2.075	0.192	0.0	375	0.941
1.007	0.880	15.5	22.1	1.408	1.857	0.037	0.0	150	0.896



Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
2.001	Permeable Paving 3	SWMH 02	12.003	0.600	95.130	94.978	0.152	79.0	150	5.18	150.0
3.001	SWMH 20	SWMH 19	5.723	0.600	94.630	94.592	0.038	150.0	150	5.49	150.0
3.002	SWMH 21	SWMH 20	17.006	0.600	94.800	94.630	0.170	100.0	100	5.37	150.0
4.001	Permeable Paving 1	SWMH 03	16.773	0.600	94.943	94.632	0.311	54.0	225	6.43	150.0
4.002	SWMH 22	Permeable Paving 1	15.214	0.600	95.225	94.943	0.282	54.0	225	6.27	150.0
4.003	SWMH 23	SWMH 22	11.274	0.600	95.300	95.225	0.075	150.0	225	6.13	150.0
4.004	SWMH 24	SWMH 23	24.676	0.600	96.061	95.896	0.165	150.0	225	5.95	150.0
4.005	SWMH 25	SWMH 24	19.594	0.600	96.192	96.061	0.131	150.0	225	5.57	150.0
4.006	SWMH 26	SWMH 25	19.682	0.600	96.500	96.192	0.308	64.0	150	5.26	150.0
5.001	SWMH 04	Outfall	28.453	0.600	94.511	93.380	1.131	25.2	225	6.90	150.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
2.001	1.132	20.0	0.0	1.200	2.072	0.000	0.0	0	0.000
3.001	0.818	14.5	22.1	1.370	1.408	0.037	0.0	150	0.833
3.002	0.769	6.0	0.0	1.250	1.420	0.000	0.0	0	0.000
4.001	1.783	70.9	79.3	1.462	1.643	0.133	0.0	225	1.816
4.002	1.783	70.9	75.7	1.050	1.462	0.127	0.0	206	1.984
4.003	1.065	42.3	52.5	1.175	1.050	0.088	0.0	225	1.085
4.004	1.065	42.3	50.1	0.974	0.579	0.084	0.0	225	1.085
4.005	1.065	42.3	40.5	1.403	0.974	0.068	0.0	177	1.207
4.006	1.259	22.2	20.9	1.450	1.478	0.035	0.0	116	1.427
5.001	2.619	104.1	246.3	2.164	1.065	0.413	0.0	225	2.667

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.001	6.896	50.0	150	Circular	96.880	95.540	1.190	97.200	95.402	1.648
1.002	13.815	50.0	300	Circular	97.200	95.402	1.498	97.250	95.126	1.824
1.003	7.396	50.0	300	Circular	97.250	95.126	1.824	97.200	94.978	1.922
1.004	18.613	90.0	300	Circular	97.200	94.978	1.922	97.200	94.771	2.129
1.005	23.383	90.0	300	Circular	97.200	94.771	2.129	96.900	94.511	2.089
1.006	16.267	375.0	375	Circular	96.500	94.493	1.632	96.900	94.450	2.075
1.007	12.882	130.0	150	Circular	96.150	94.592	1.408	96.500	94.493	1.857
2.001	12.003	79.0	150	Circular	96.480	95.130	1.200	97.200	94.978	2.072
3.001	5.723	150.0	150	Circular	96.150	94.630	1.370	96.150	94.592	1.408
3.002	17.006	100.0	100	Circular	96.150	94.800	1.250	96.150	94.630	1.420

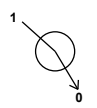
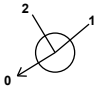
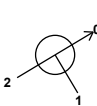
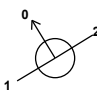
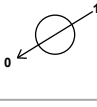
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.001	Permeable Paving 2	1	Manhole	Adoptable	SWMH 01	1050	Manhole	Adoptable
1.002	SWMH 01	1050	Manhole	Adoptable	SWMH 14	450	Manhole	Adoptable
1.003	SWMH 14	450	Manhole	Adoptable	SWMH 02	1050	Manhole	Adoptable
1.004	SWMH 02	1050	Manhole	Adoptable	Tank	1	Manhole	Adoptable
1.005	Tank	1	Manhole	Adoptable	SWMH 04	1200	Manhole	Adoptable
1.006	SWMH 03	1050	Manhole	Adoptable	SWMH 04	1200	Manhole	Adoptable
1.007	SWMH 19	450	Manhole	Adoptable	SWMH 03	1050	Manhole	Adoptable
2.001	Permeable Paving 3	450	Manhole	Adoptable	SWMH 02	1050	Manhole	Adoptable
3.001	SWMH 20	450	Manhole	Adoptable	SWMH 19	450	Manhole	Adoptable
3.002	SWMH 21	450	Manhole	Adoptable	SWMH 20	450	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
4.001	16.773	54.0	225	Circular	96.630	94.943	1.462	96.500	94.632	1.643
4.002	15.214	54.0	225	Circular	96.500	95.225	1.050	96.630	94.943	1.462
4.003	11.274	150.0	225	Circular	96.700	95.300	1.175	96.500	95.225	1.050
4.004	24.676	150.0	225	Circular	97.260	96.061	0.974	96.700	95.896	0.579
4.005	19.594	150.0	225	Circular	97.820	96.192	1.403	97.260	96.061	0.974
4.006	19.682	64.0	150	Circular	98.100	96.500	1.450	97.820	96.192	1.478
5.001	28.453	25.2	225	Circular	96.900	94.511	2.164	94.670	93.380	1.065

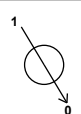
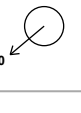
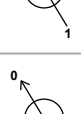
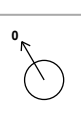
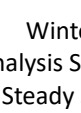
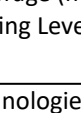
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
4.001	Permeable Paving 1	1	Manhole	Adoptable	SWMH 03	1050	Manhole	Adoptable
4.002	SWMH 22	450	Manhole	Adoptable	Permeable Paving 1	1	Manhole	Adoptable
4.003	SWMH 23	450	Manhole	Adoptable	SWMH 22	450	Manhole	Adoptable
4.004	SWMH 24	450	Manhole	Adoptable	SWMH 23	450	Manhole	Adoptable
4.005	SWMH 25	450	Manhole	Adoptable	SWMH 24	450	Manhole	Adoptable
4.006	SWMH 26	450	Manhole	Adoptable	SWMH 25	450	Manhole	Adoptable
5.001	SWMH 04	1200	Manhole	Adoptable	Outfall	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SWMH 01	430047.566	333959.755	97.200	1.798	1050		1.001	95.402	150
SWMH 02	430058.489	333941.572	97.200	2.222	1050		2.001	94.978	150
SWMH 03	430008.768	333911.204	96.500	2.007	1050		1.007	94.493	150
SWMH 04	430022.719	333919.569	96.900	2.450	1200		1.006	94.450	375
Outfall	430007.874	333943.843	94.670	1.290	1200		5.001	93.380	225
Tank	430042.636	333931.819	97.200	2.429	1		1.004	94.771	300
Permeable Paving 2	430042.428	333964.355	96.880	1.340	1		1.005	94.771	300
							1.001	95.540	150



Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SWMH 14	430054.680	333947.912	97.250	2.124	450		1 1.002	95.126	300
Permeable Paving 3	430067.681	333949.291	96.480	1.350	450		0 2.001	95.130	150
SWMH 19	429997.720	333904.579	96.150	1.558	450		1 3.001	94.592	150
SWMH 20	430000.685	333899.684	96.150	1.520	450		0 1.007	94.592	150
SWMH 21	430009.255	333884.995	96.150	1.350	450		1 3.002	94.630	100
SWMH 22	430025.121	333883.714	96.500	1.275	450		0 3.001	94.630	150
SWMH 23	430031.081	333874.144	96.700	1.400	450		0 3.002	94.800	100
SWMH 24	430052.272	333886.787	97.260	1.199	450		1 4.003	95.225	225
SWMH 25	430069.090	333896.840	97.820	1.628	450		0 4.002	95.225	225
SWMH 26	430086.150	333906.655	98.100	1.600	450		1 4.004	95.896	225
Permeable Paving 1	430017.343	333896.789	96.630	1.687	1		0 4.003	95.300	225
							1 4.005	96.061	225
							0 4.004	96.061	225
							1 4.006	96.192	150
							0 4.005	96.192	225
							0 4.006	96.500	150
							1 4.002	94.943	225
							0 4.001	94.943	225

Simulation Settings

Rainfall Methodology	FSR	Winter CV	0.840
Rainfall Events	Singular	Analysis Speed	Normal
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	20.000	Drain Down Time (mins)	240
Ratio-R	0.350	Additional Storage (m³/ha)	20.0
Summer CV	0.750	Starting Level (m)	

Simulation Settings

Check Discharge Rate(s)	x	Check Discharge Volume	x
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Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	40	0	0

Node SWMH 04 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	94.511	Product Number	CTL-SHE-0083-3600-1500-3600
Design Depth (m)	1.500	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	3.6	Min Node Diameter (mm)	1200

Node Tank Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	94.771
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	207.5	207.5

Depth (m)	Area (m ²)	Inf Area (m ²)
1.199	207.5	268.7

Depth (m)	Area (m ²)	Inf Area (m ²)
1.200	0.0	268.7

Node Permeable Paving 1 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	96.250	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.250
Safety Factor	2.0	Width (m)	10.000	Inf Depth (m)	
Porosity	0.30	Length (m)	15.130		

Node SWMH 26 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	97.720	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.250
Safety Factor	2.0	Width (m)	10.000	Inf Depth (m)	
Porosity	0.30	Length (m)	8.251		

Node SWMH 19 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	95.770	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	152	Depth (m)	0.250
Safety Factor	2.0	Width (m)	10.000	Inf Depth (m)	
Porosity	0.30	Length (m)	4.421		

Node Permeable Paving 3 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	96.100	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.250
Safety Factor	2.0	Width (m)	10.000	Inf Depth (m)	
Porosity	0.30	Length (m)	2.720		



Node Permeable Paving 2 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	96.500	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.250
Safety Factor	2.0	Width (m)	10.000	Inf Depth (m)	
Porosity	0.30	Length (m)	13.557		

	GCA (UK) Ltd St Helen's House. King Street Derby DE1 3EE	File: New House Farm Flow Model.pfc Network: Storm Network Harvey Brown 26/03/2026	Page 7 10714-GCA-XX-XX-CA-D-9101-S3-P01 Surface Water Drainage Calculations
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Results for 1 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SWMH 01	10	95.455	0.053	10.1	0.0873	0.0000	OK
15 minute summer	SWMH 02	9	95.101	0.123	20.1	0.1721	0.0000	OK
15 minute winter	SWMH 03	11	94.962	0.469	24.4	0.5094	0.0000	SURCHARGED
15 minute winter	SWMH 04	11	94.957	0.507	34.2	0.8968	0.0000	SURCHARGED
180 minute summer	Outfall	176	93.407	0.027	3.2	0.0000	0.0000	OK
240 minute winter	Tank	184	94.934	0.163	8.9	32.1183	0.0000	OK
15 minute summer	Permeable Paving 2	1	95.540	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SWMH 14	10	95.184	0.058	11.9	0.0163	0.0000	OK
15 minute summer	Permeable Paving 3	1	95.130	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SWMH 19	11	94.975	0.383	5.0	0.0610	0.0000	SURCHARGED
15 minute winter	SWMH 20	11	94.980	0.350	5.0	0.2261	0.0000	SURCHARGED
15 minute winter	SWMH 21	11	94.982	0.182	2.4	0.0290	0.0000	SURCHARGED
15 minute winter	SWMH 22	11	95.303	0.078	16.6	0.0600	0.0000	OK
15 minute winter	SWMH 23	11	95.385	0.085	11.6	0.0184	0.0000	OK
15 minute winter	SWMH 24	11	96.142	0.081	11.1	0.0343	0.0000	OK
15 minute winter	SWMH 25	10	96.264	0.072	9.1	0.0408	0.0000	OK
15 minute winter	SWMH 26	10	96.546	0.046	4.7	0.0277	0.0000	OK
15 minute winter	Permeable Paving 1	11	95.019	0.076	17.5	0.0054	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWMH 01	1.002	SWMH 14	10.1	1.176	0.064	0.1188	
15 minute summer	SWMH 02	1.004	Tank	21.8	1.903	0.186	0.2617	
15 minute winter	SWMH 03	1.006	SWMH 04	25.1	0.228	0.244	1.7942	
15 minute winter	SWMH 04	5.001	Outfall	3.2	1.186	0.031	0.0779	23.9
240 minute winter	Tank	1.005	SWMH 04	-4.6	0.114	-0.039	1.2802	
15 minute summer	Permeable Paving 2	1.001	SWMH 01	0.0	0.000	0.000	0.0190	
15 minute winter	SWMH 14	1.003	SWMH 02	11.7	0.810	0.074	0.1250	
15 minute summer	Permeable Paving 3	2.001	SWMH 02	0.0	0.000	0.000	0.0929	
15 minute winter	SWMH 19	1.007	SWMH 03	5.6	0.331	0.362	0.2268	
15 minute winter	SWMH 20	3.001	SWMH 19	5.0	0.561	0.349	0.1008	
15 minute winter	SWMH 21	3.002	SWMH 20	-2.4	-0.301	-0.391	0.1331	
15 minute winter	SWMH 22	4.002	Permeable Paving 1	16.7	1.398	0.235	0.1817	
15 minute winter	SWMH 23	4.003	SWMH 22	11.6	0.898	0.275	0.1460	
15 minute winter	SWMH 24	4.004	SWMH 23	11.1	0.890	0.262	0.3079	
15 minute winter	SWMH 25	4.005	SWMH 24	8.9	0.763	0.211	0.2307	
15 minute winter	SWMH 26	4.006	SWMH 25	4.6	0.715	0.208	0.1282	
15 minute winter	Permeable Paving 1	4.001	SWMH 03	17.5	1.091	0.247	0.4318	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.20%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SWMH 01	10	95.485	0.083	24.8	0.1378	0.0000	OK
240 minute winter	SWMH 02	236	95.317	0.339	9.7	0.4729	0.0000	SURCHARGED
240 minute winter	SWMH 03	236	95.316	0.823	12.2	0.8934	0.0000	SURCHARGED
240 minute winter	SWMH 04	236	95.316	0.866	17.2	1.5319	0.0000	SURCHARGED
15 minute summer	Outfall	133	93.407	0.027	3.2	0.0000	0.0000	OK
240 minute winter	Tank	236	95.317	0.546	23.2	107.5480	0.0000	SURCHARGED
15 minute summer	Permeable Paving 2	1	95.540	0.000	0.0	0.0000	0.0000	OK
240 minute winter	SWMH 14	236	95.316	0.190	5.7	0.0535	0.0000	OK
240 minute winter	Permeable Paving 3	236	95.317	0.187	1.0	0.0297	0.0000	SURCHARGED
240 minute winter	SWMH 19	236	95.316	0.724	2.3	0.1152	0.0000	SURCHARGED
240 minute winter	SWMH 20	236	95.316	0.686	2.5	0.4434	0.0000	SURCHARGED
240 minute winter	SWMH 21	236	95.316	0.516	0.1	0.0821	0.0000	SURCHARGED
15 minute winter	SWMH 22	11	95.397	0.172	40.7	0.1325	0.0000	OK
15 minute winter	SWMH 23	11	95.458	0.158	28.5	0.0341	0.0000	OK
15 minute winter	SWMH 24	11	96.198	0.137	27.3	0.0584	0.0000	OK
15 minute winter	SWMH 25	10	96.315	0.123	22.4	0.0692	0.0000	OK
15 minute winter	SWMH 26	10	96.576	0.076	11.6	0.0455	0.0000	OK
240 minute winter	Permeable Paving 1	236	95.316	0.373	9.0	0.0265	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SWMH 01	1.002	SWMH 14	24.8	1.349	0.157	0.2545	
240 minute winter	SWMH 02	1.004	Tank	9.6	0.964	0.082	1.3107	
240 minute winter	SWMH 03	1.006	SWMH 04	12.0	0.108	0.117	1.7942	
240 minute winter	SWMH 04	5.001	Outfall	3.2	1.186	0.031	0.0779	78.9
240 minute winter	Tank	1.005	SWMH 04	-13.8	-0.197	-0.117	1.6466	
15 minute summer	Permeable Paving 2	1.001	SWMH 01	0.0	0.000	0.000	0.0346	
240 minute winter	SWMH 14	1.003	SWMH 02	5.7	0.775	0.036	0.4348	
240 minute winter	Permeable Paving 3	2.001	SWMH 02	-1.0	-0.061	-0.049	0.2113	
240 minute winter	SWMH 19	1.007	SWMH 03	2.2	0.191	0.139	0.2268	
240 minute winter	SWMH 20	3.001	SWMH 19	2.3	0.360	0.157	0.1008	
240 minute winter	SWMH 21	3.002	SWMH 20	-0.1	-0.016	-0.021	0.1331	
15 minute winter	SWMH 22	4.002	Permeable Paving 1	41.1	1.421	0.580	0.5501	
15 minute winter	SWMH 23	4.003	SWMH 22	28.5	1.119	0.674	0.3513	
15 minute winter	SWMH 24	4.004	SWMH 23	27.3	1.111	0.644	0.6052	
15 minute winter	SWMH 25	4.005	SWMH 24	22.1	0.935	0.521	0.4623	
15 minute winter	SWMH 26	4.006	SWMH 25	11.5	0.926	0.516	0.2403	
240 minute winter	Permeable Paving 1	4.001	SWMH 03	8.5	0.732	0.121	0.6671	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 98.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	SWMH 01	464	95.947	0.545	5.1	0.9031	0.0000	SURCHARGED
480 minute winter	SWMH 02	464	95.946	0.968	13.2	1.3528	0.0000	SURCHARGED
480 minute winter	SWMH 03	464	95.946	1.453	12.9	1.5765	0.0000	SURCHARGED
480 minute winter	SWMH 04	464	95.946	1.496	18.4	2.6449	0.0000	SURCHARGED
480 minute winter	Outfall	464	93.408	0.028	3.5	0.0000	0.0000	OK
480 minute winter	Tank	464	95.946	1.175	25.0	231.6357	0.0000	SURCHARGED
480 minute winter	Permeable Paving 2	456	95.948	0.408	0.3	0.0000	0.0000	SURCHARGED
480 minute winter	SWMH 14	464	95.946	0.820	6.0	0.2305	0.0000	SURCHARGED
480 minute winter	Permeable Paving 3	456	95.946	0.816	0.5	0.1297	0.0000	SURCHARGED
480 minute winter	SWMH 19	464	95.946	1.354	2.4	2.2537	0.0000	FLOOD RISK
480 minute winter	SWMH 20	464	95.946	1.316	2.7	0.8502	0.0000	FLOOD RISK
480 minute winter	SWMH 21	464	95.946	1.146	0.1	0.1822	0.0000	FLOOD RISK
15 minute winter	SWMH 22	12	96.203	0.978	65.7	0.7540	0.0000	FLOOD RISK
15 minute winter	SWMH 23	12	96.325	1.025	45.0	0.2214	0.0000	SURCHARGED
15 minute winter	SWMH 24	12	96.528	0.467	45.1	0.1988	0.0000	SURCHARGED
15 minute winter	SWMH 25	12	96.635	0.443	37.4	0.2498	0.0000	SURCHARGED
15 minute winter	SWMH 26	12	96.872	0.372	21.0	0.2223	0.0000	SURCHARGED
480 minute winter	Permeable Paving 1	464	95.946	1.003	9.1	0.0712	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SWMH 01	1.002	SWMH 14	5.1	0.931	0.032	0.9728	
480 minute winter	SWMH 02	1.004	Tank	10.0	0.927	0.085	1.3107	
480 minute winter	SWMH 03	1.006	SWMH 04	12.8	0.116	0.124	1.7942	
480 minute winter	SWMH 04	5.001	Outfall	3.5	1.213	0.034	0.0821	135.7
480 minute winter	Tank	1.005	SWMH 04	-15.4	-0.219	-0.132	1.6466	
480 minute winter	Permeable Paving 2	1.001	SWMH 01	-0.3	-0.019	-0.014	0.1214	
480 minute winter	SWMH 14	1.003	SWMH 02	8.5	0.714	0.054	0.5208	
480 minute winter	Permeable Paving 3	2.001	SWMH 02	0.7	0.042	0.033	0.2113	
480 minute winter	SWMH 19	1.007	SWMH 03	2.3	0.139	0.149	0.2268	
480 minute winter	SWMH 20	3.001	SWMH 19	2.4	0.331	0.169	0.1008	
480 minute winter	SWMH 21	3.002	SWMH 20	-0.1	-0.016	-0.021	0.1331	
15 minute winter	SWMH 22	4.002	Permeable Paving 1	64.5	1.623	0.910	0.6051	
15 minute winter	SWMH 23	4.003	SWMH 22	45.1	1.135	1.065	0.4484	
15 minute winter	SWMH 24	4.004	SWMH 23	42.7	1.184	1.007	0.9814	
15 minute winter	SWMH 25	4.005	SWMH 24	36.1	1.017	0.853	0.7793	
15 minute winter	SWMH 26	4.006	SWMH 25	18.9	1.115	0.849	0.3465	
480 minute winter	Permeable Paving 1	4.001	SWMH 03	9.0	0.730	0.127	0.6671	