

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	3.00	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)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
SW01	0.005	3.00	14.550	450	445137.443	118441.311	0.450	14.100
SW02	0.005	3.00	14.550	450	445115.830	118444.642	0.669	13.881
SW03	0.005	3.00	14.600	450	445114.237	118433.488	0.832	13.768
SW04	0.005	3.00	14.700	450	445126.828	118431.242	1.060	13.640
SW05	0.005	3.00	14.700	450	445127.878	118429.131	1.134	13.566
SW06	0.005	3.00	14.600	450	445147.519	118429.339	0.675	13.925
SW07	0.005	3.00	14.500	450	445145.433	118414.046	0.739	13.761
SW08	0.005	3.00	14.600	450	445126.133	118416.803	1.029	13.571
SW09	0.000	3.00	14.600	450	445125.231	118421.257	0.636	13.964
SW10(CP)	0.005	3.00	14.600	450	445127.039	118423.206	1.094	13.506
SW12(OFC)			14.500	1200	445113.783	118425.097	1.022	13.478
RE1		3.00	14.450		445111.758	118423.284	0.350	14.100
Outfall			14.500		445110.989	118425.618	1.166	13.334
SW11(VTS)			14.500	1300	445115.897	118424.795	1.000	13.500
Model Junction			14.600		445126.887	118422.135	1.083	13.517
Storage Node_IN			14.600		445125.797	118423.381	1.115	13.485
Storage Node_OUT		3.00	14.600		445116.870	118424.657	1.090	13.510
Storage Node_Perm Paving01	0.015	3.00	14.600		445125.265	118415.858	0.400	14.200
Storage Node_Perm Paving02	0.015	3.00	14.700		445125.815	118430.911	0.400	14.300

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)
1.000	SW01	SW02	21.868	0.600	14.100	13.881	0.219	100.0	150	3.36	50.0
1.001	SW02	SW03	11.267	0.600	13.881	13.768	0.113	100.0	150	3.55	50.0
1.002	SW03	SW04	12.790	0.600	13.768	13.640	0.128	100.0	150	3.76	50.0
1.003	SW04	SW05	2.358	0.600	13.640	13.566	0.074	31.9	150	3.78	50.0
1.004	SW05	SW10(CP)	5.984	0.600	13.566	13.506	0.060	99.7	150	3.88	50.0
3.000	SW06	SW07	15.435	0.600	13.925	13.761	0.164	94.1	150	3.25	50.0
3.001	SW07	SW08	19.496	0.600	13.761	13.571	0.190	102.6	150	3.58	50.0
3.002	SW08	Model Junction	5.385	0.600	13.571	13.517	0.054	99.7	150	3.67	26.4
3.003	Model Junction	SW10(CP)	1.082	0.600	13.517	13.506	0.011	98.3	150	3.68	50.0

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)
1.000	1.005	17.8	0.9	0.300	0.519	0.005	0.0	23	0.527
1.001	1.005	17.8	1.8	0.519	0.682	0.010	0.0	33	0.649
1.002	1.005	17.8	2.7	0.682	0.910	0.015	0.0	40	0.727
1.003	1.789	31.6	6.3	0.910	0.984	0.035	0.0	45	1.401
1.004	1.006	17.8	7.2	0.984	0.944	0.040	0.0	67	0.954
3.000	1.036	18.3	0.9	0.525	0.589	0.005	0.0	23	0.535
3.001	0.992	17.5	1.8	0.589	0.879	0.010	0.0	33	0.641
3.002	1.006	17.8	2.9	0.879	0.933	0.030	0.0	41	0.741
3.003	1.013	17.9	5.4	0.933	0.944	0.030	0.0	57	0.889

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)
5.001	SW09	Model Junction	1.874	0.600	13.964	13.517	0.447	4.2	150	3.23	50.0
5.000	RE1	SW09	13.625	0.600	14.100	13.964	0.136	100.0	150	3.23	50.0
1.005	SW10(CP)	Storage Node_IN	1.254	0.600	13.506	13.485	0.021	60.0	150	3.90	50.0
6.000	Storage Node_OUT	SW11(VTS)	1.000	0.600	13.510	13.500	0.010	100.0	150	3.02	50.0
6.002	SW12(OFC)	Outfall	2.842	0.600	13.478	13.334	0.144	19.7	100	3.08	50.0
2.000	Storage Node_Perm Paving02	SW04	1.066	0.600	14.300	13.640	0.660	1.6	100	3.00	50.0
4.000	Storage Node_Perm Paving01	SW08	1.283	0.600	14.200	13.751	0.449	2.9	100	3.00	50.0
6.001	SW11(VTS)	SW12(OFC)	2.135	0.600	13.500	13.478	0.022	97.1	150	3.05	50.0

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)
5.001	4.956	87.6	0.0	0.486	0.933	0.000	0.0	0	0.000
5.000	1.005	17.8	0.0	0.200	0.486	0.000	0.0	0	0.000
1.005	1.301	23.0	13.6	0.944	0.965	0.075	0.0	83	1.353
6.000	1.005	17.8	0.0	0.940	0.850	0.000	0.0	0	0.000
6.002	1.746	13.7	0.0	0.922	1.066	0.000	0.0	0	0.000
2.000	6.137	48.2	2.7	0.300	0.960	0.015	0.0	16	3.290
4.000	4.609	36.2	2.7	0.300	0.749	0.015	0.0	18	2.689
6.001	1.020	18.0	0.0	0.850	0.872	0.000	0.0	0	0.000

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)
1.000	21.868	100.0	150	Circular	14.550	14.100	0.300	14.550	13.881	0.519
1.001	11.267	100.0	150	Circular	14.550	13.881	0.519	14.600	13.768	0.682
1.002	12.790	100.0	150	Circular	14.600	13.768	0.682	14.700	13.640	0.910
1.003	2.358	31.9	150	Circular	14.700	13.640	0.910	14.700	13.566	0.984
1.004	5.984	99.7	150	Circular	14.700	13.566	0.984	14.600	13.506	0.944
3.000	15.435	94.1	150	Circular	14.600	13.925	0.525	14.500	13.761	0.589
3.001	19.496	102.6	150	Circular	14.500	13.761	0.589	14.600	13.571	0.879
3.002	5.385	99.7	150	Circular	14.600	13.571	0.879	14.600	13.517	0.933
3.003	1.082	98.3	150	Circular	14.600	13.517	0.933	14.600	13.506	0.944
5.001	1.874	4.2	150	Circular	14.600	13.964	0.486	14.600	13.517	0.933
5.000	13.625	100.0	150	Circular	14.450	14.100	0.200	14.600	13.964	0.486
1.005	1.254	60.0	150	Circular	14.600	13.506	0.944	14.600	13.485	0.965
6.000	1.000	100.0	150	Circular	14.600	13.510	0.940	14.500	13.500	0.850
6.002	2.842	19.7	100	Circular	14.500	13.478	0.922	14.500	13.334	1.066
2.000	1.066	1.6	100	Circular	14.700	14.300	0.300	14.700	13.640	0.960
4.000	1.283	2.9	100	Circular	14.600	14.200	0.300	14.600	13.751	0.749

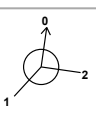
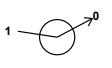
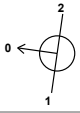
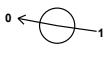
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	SW01	450	Manhole	Adoptable	SW02	450	Manhole	Adoptable
1.001	SW02	450	Manhole	Adoptable	SW03	450	Manhole	Adoptable
1.002	SW03	450	Manhole	Adoptable	SW04	450	Manhole	Adoptable
1.003	SW04	450	Manhole	Adoptable	SW05	450	Manhole	Adoptable
1.004	SW05	450	Manhole	Adoptable	SW10(CP)	450	Manhole	Adoptable
3.000	SW06	450	Manhole	Adoptable	SW07	450	Manhole	Adoptable
3.001	SW07	450	Manhole	Adoptable	SW08	450	Manhole	Adoptable
3.002	SW08	450	Manhole	Adoptable	Model Junction		Junction	
3.003	Model Junction		Junction		SW10(CP)	450	Manhole	Adoptable
5.001	SW09	450	Manhole	Adoptable	Model Junction		Junction	
5.000	RE1		Junction		SW09	450	Manhole	Adoptable
1.005	SW10(CP)	450	Manhole	Adoptable	Storage Node_IN		Junction	
6.000	Storage Node_OUT		Junction		SW11(VTS)	1300	Manhole	Adoptable
6.002	SW12(OFC)	1200	Manhole	Adoptable	Outfall		Junction	
2.000	Storage Node_Perm Paving02		Junction		SW04	450	Manhole	Adoptable
4.000	Storage Node_Perm Paving01		Junction		SW08	450	Manhole	Adoptable

Pipeline Schedule

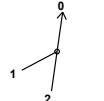
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
6.001	2.135	97.1	150	Circular	14.500	13.500	0.850	14.500	13.478	0.872

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
6.001	SW11(VTS)	1300	Manhole	Adoptable	SW12(OFC)	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SW01	445137.443	118441.311	14.550	0.450	450				
						0	1.000	14.100	150
SW02	445115.830	118444.642	14.550	0.669	450				
						0	1.001	13.881	150
SW03	445114.237	118433.488	14.600	0.832	450				
						0	1.002	13.768	150
SW04	445126.828	118431.242	14.700	1.060	450				
						0	1.003	13.640	150
SW05	445127.878	118429.131	14.700	1.134	450				
						0	1.004	13.566	150
SW06	445147.519	118429.339	14.600	0.675	450				
						0	3.000	13.925	150
SW07	445145.433	118414.046	14.500	0.739	450				
						0	3.001	13.761	150
SW08	445126.133	118416.803	14.600	1.029	450				
						0	3.002	13.571	150
SW09	445125.231	118421.257	14.600	0.636	450				
						0	5.001	13.964	150
SW10(CP)	445127.039	118423.206	14.600	1.094	450				
						0	1.005	13.506	150
SW12(OFC)	445113.783	118425.097	14.500	1.022	1200				
						0	6.001	13.478	150
RE1	445111.758	118423.284	14.450	0.350					
						0	5.000	14.100	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
Outfall	445110.989	118425.618	14.500	1.166		 1	6.002	13.334	100
SW11(VTS)	445115.897	118424.795	14.500	1.000	1300	 1	6.000	13.500	150
Model Junction	445126.887	118422.135	14.600	1.083		 1	5.001	13.517	150
Storage Node_IN	445125.797	118423.381	14.600	1.115		 1	3.002	13.517	150
Storage Node_OUT	445116.870	118424.657	14.600	1.090		 0	6.000	13.510	150
Storage Node_Perm Paving01	445125.265	118415.858	14.600	0.400		 0	4.000	14.200	100
Storage Node_Perm Paving02	445125.815	118430.911	14.700	0.400		 0	2.000	14.300	100

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)
Summer CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume
Winter CV	1.000	Additional Storage (m ³ /ha)	20.0	

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	100	0	0	0
30	0	0	0	100	45	0	0
30	40	0	0				

Node SW12(OFC) Online Orifice Control

Flap Valve	x	Design Depth (m)	0.760	Discharge Coefficient	0.600
Replaces Downstream Link	x	Design Flow (l/s)	4.5		
Invert Level (m)	13.478	Diameter (m)	0.050		

Node Storage Node_OUT Tank Storage Structure

Invert Level (m)	13.510	Time to half empty (mins)	48	Analyse flow through structure	x
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Inlets

Storage Node_IN

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	29.9	0.400	29.9

Node Storage Node Perm Paving01 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	14.100
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	46

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	62.5	0.0	0.300	62.5	0.0

Node Storage Node Perm Paving02 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	14.200
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	29

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	62.5	0.0	0.300	62.5	0.0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	9	14.122	0.022	0.9	0.0084	0.0000	OK
15 minute summer	SW02	9	13.911	0.030	1.7	0.0093	0.0000	OK
15 minute summer	SW03	10	13.805	0.037	2.5	0.0103	0.0000	OK
15 minute summer	SW04	10	13.689	0.049	5.2	0.0123	0.0000	OK
15 minute summer	SW05	10	13.633	0.067	6.0	0.0166	0.0000	OK
15 minute summer	SW06	9	13.947	0.022	0.9	0.0068	0.0000	OK
15 minute summer	SW07	9	13.791	0.030	1.7	0.0089	0.0000	OK
120 minute summer	SW08	76	13.629	0.058	1.9	0.0148	0.0000	OK
15 minute summer	SW09	1	13.964	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SW10(CP)	76	13.629	0.123	4.6	0.0307	0.0000	OK
120 minute summer	SW12(OFC)	76	13.621	0.143	1.8	0.1622	0.0000	SURCHARGED
15 minute summer	RE1	1	14.100	0.000	0.0	0.0000	0.0000	OK
120 minute summer	Outfall	76	13.359	0.025	1.8	0.0000	0.0000	OK
120 minute summer	SW11(VTS)	76	13.622	0.122	1.9	0.1616	0.0000	OK
120 minute summer	Model Junction	76	13.629	0.112	1.9	0.0000	0.0000	OK
120 minute summer	Storage Node_IN	76	13.628	0.143	4.5	0.0000	0.0000	OK
120 minute summer	Storage Node_OUT	76	13.622	0.112	3.1	3.3427	0.0000	OK
15 minute summer	Storage Node_Perm Paving01	10	14.217	0.017	2.6	0.3176	0.0000	OK
15 minute summer	Storage Node_Perm Paving02	10	14.314	0.014	2.6	0.2599	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	SW01	1.000	SW02	0.8	0.403	0.047	0.0451	
15 minute summer	SW02	1.001	SW03	1.6	0.536	0.088	0.0330	
15 minute summer	SW03	1.002	SW04	2.4	0.577	0.133	0.0532	
15 minute summer	SW04	1.003	SW05	5.3	0.852	0.168	0.0148	
15 minute summer	SW05	1.004	SW10(CP)	6.1	0.698	0.343	0.0538	
15 minute summer	SW06	3.000	SW07	0.8	0.413	0.046	0.0320	
15 minute summer	SW07	3.001	SW08	1.6	0.419	0.090	0.0783	
120 minute summer	SW08	3.002	Model Junction	1.9	0.440	0.105	0.0546	
15 minute summer	SW09	5.001	Model Junction	0.0	0.000	0.000	0.0096	
120 minute summer	SW10(CP)	1.005	Storage Node_IN	4.5	0.452	0.194	0.0205	
120 minute summer	SW12(OFC)	6.002	Outfall	1.8	1.176	0.131	0.0043	8.6
15 minute summer	RE1	5.000	SW09	0.0	0.000	0.000	0.0000	
120 minute summer	SW11(VTS)	6.001	SW12(OFC)	1.8	0.290	0.100	0.0349	
120 minute summer	Model Junction	3.003	SW10(CP)	1.8	0.286	0.099	0.0159	
120 minute summer	Storage Node_OUT	6.000	SW11(VTS)	1.9	0.478	0.105	0.0147	
15 minute summer	Storage Node_Perm Paving01	4.000	SW08	1.9	2.375	0.054	0.0011	
15 minute summer	Storage Node_Perm Paving02	2.000	SW04	2.2	1.089	0.045	0.0024	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	9	14.140	0.040	2.9	0.0153	0.0000	OK
60 minute summer	SW02	46	14.022	0.141	3.2	0.0436	0.0000	OK
60 minute summer	SW03	46	14.022	0.254	4.8	0.0710	0.0000	SURCHARGED
60 minute summer	SW04	46	14.022	0.382	10.2	0.0968	0.0000	SURCHARGED
60 minute summer	SW05	46	14.022	0.456	11.2	0.1126	0.0000	SURCHARGED
60 minute summer	SW06	46	14.022	0.097	1.6	0.0296	0.0000	OK
60 minute summer	SW07	46	14.022	0.261	3.2	0.0766	0.0000	SURCHARGED
60 minute summer	SW08	46	14.022	0.451	9.5	0.1154	0.0000	SURCHARGED
60 minute summer	SW09	46	14.021	0.057	0.4	0.0091	0.0000	OK
60 minute summer	SW10(CP)	46	14.021	0.515	20.5	0.1288	0.0000	SURCHARGED
60 minute summer	SW12(OFC)	46	14.004	0.526	3.9	0.5950	0.0000	SURCHARGED
15 minute summer	RE1	1	14.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	Outfall	46	13.369	0.035	3.6	0.0000	0.0000	OK
60 minute summer	SW11(VTS)	46	14.006	0.506	4.4	0.6716	0.0000	SURCHARGED
60 minute summer	Model Junction	46	14.021	0.504	9.0	0.0000	0.0000	SURCHARGED
60 minute summer	Storage Node_IN	46	14.020	0.535	19.9	0.0000	0.0000	OK
60 minute summer	Storage Node_OUT	46	14.007	0.497	11.6	11.6598	0.0000	SURCHARGED
15 minute summer	Storage Node_Perm Paving01	9	14.234	0.034	8.7	0.6448	0.0000	OK
15 minute summer	Storage Node_Perm Paving02	10	14.326	0.026	8.7	0.4970	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	SW01	1.000	SW02	2.8	0.546	0.158	0.1130	
60 minute summer	SW02	1.001	SW03	3.2	0.628	0.180	0.1961	
60 minute summer	SW03	1.002	SW04	4.2	0.613	0.236	0.2252	
60 minute summer	SW04	1.003	SW05	9.6	0.841	0.304	0.0415	
60 minute summer	SW05	1.004	SW10(CP)	10.7	0.608	0.602	0.1053	
60 minute summer	SW06	3.000	SW07	1.6	0.480	0.087	0.2283	
60 minute summer	SW07	3.001	SW08	2.9	0.387	0.167	0.3432	
60 minute summer	SW08	3.002	Model Junction	9.0	0.509	0.504	0.0948	
60 minute summer	SW09	5.001	Model Junction	-0.4	-0.037	-0.005	0.0223	
60 minute summer	SW10(CP)	1.005	Storage Node_IN	19.9	1.132	0.867	0.0221	
60 minute summer	SW12(OFC)	6.002	Outfall	3.6	1.422	0.266	0.0073	24.5
15 minute summer	RE1	5.000	SW09	0.0	0.000	0.000	0.0000	
60 minute summer	SW11(VTS)	6.001	SW12(OFC)	3.9	0.480	0.216	0.0376	
60 minute summer	Model Junction	3.003	SW10(CP)	8.4	0.476	0.468	0.0190	
60 minute summer	Storage Node_OUT	6.000	SW11(VTS)	4.4	0.529	0.246	0.0176	
15 minute summer	Storage Node_Perm Paving01	4.000	SW08	8.3	3.289	0.228	0.0062	
15 minute summer	Storage Node_Perm Paving02	2.000	SW04	7.9	1.396	0.164	0.0050	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	SW01	55	14.343	0.243	2.4	0.0926	0.0000	FLOOD RISK
60 minute summer	SW02	50	14.342	0.461	4.6	0.1426	0.0000	FLOOD RISK
60 minute summer	SW03	50	14.339	0.571	6.1	0.1594	0.0000	FLOOD RISK
60 minute summer	SW04	50	14.333	0.693	13.5	0.1753	0.0000	SURCHARGED
60 minute summer	SW05	50	14.331	0.765	14.8	0.1889	0.0000	SURCHARGED
60 minute summer	SW06	50	14.327	0.402	2.3	0.1234	0.0000	FLOOD RISK
60 minute summer	SW07	50	14.326	0.565	4.6	0.1662	0.0000	FLOOD RISK
60 minute summer	SW08	48	14.325	0.754	12.1	0.1931	0.0000	FLOOD RISK
60 minute summer	SW09	50	14.326	0.362	2.6	0.0575	0.0000	FLOOD RISK
60 minute summer	SW10(CP)	50	14.326	0.820	26.5	0.2050	0.0000	FLOOD RISK
60 minute summer	SW12(OFC)	50	14.303	0.825	5.9	0.9331	0.0000	FLOOD RISK
60 minute winter	RE1	48	14.325	0.225	1.4	0.0000	0.0000	FLOOD RISK
60 minute summer	Outfall	50	13.374	0.040	4.6	0.0000	0.0000	OK
60 minute summer	SW11(VTS)	50	14.306	0.806	8.2	1.0700	0.0000	FLOOD RISK
60 minute summer	Model Junction	50	14.326	0.809	11.5	0.0000	0.0000	FLOOD RISK
60 minute summer	Storage Node_IN	50	14.324	0.839	25.8	0.0000	0.0000	OK
60 minute summer	Storage Node_OUT	50	14.308	0.798	22.5	11.8256	0.0000	FLOOD RISK
60 minute summer	Storage Node_Perm Paving01	48	14.327	0.127	6.9	2.4672	0.0000	FLOOD RISK
15 minute summer	Storage Node_Perm Paving02	10	14.334	0.034	12.2	0.6595	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)
60 minute summer	SW01	1.000	SW02	2.3	0.518	0.130	0.3850	
60 minute summer	SW02	1.001	SW03	4.0	0.634	0.223	0.1984	
60 minute summer	SW03	1.002	SW04	4.9	0.607	0.274	0.2252	
60 minute summer	SW04	1.003	SW05	12.7	0.817	0.402	0.0415	
60 minute summer	SW05	1.004	SW10(CP)	14.0	0.797	0.789	0.1053	
60 minute summer	SW06	3.000	SW07	2.3	0.485	0.124	0.2717	
60 minute summer	SW07	3.001	SW08	3.4	0.345	0.192	0.3432	
60 minute summer	SW08	3.002	Model Junction	11.5	0.656	0.650	0.0948	
60 minute summer	SW09	5.001	Model Junction	-2.6	-0.150	-0.030	0.0330	
60 minute summer	SW10(CP)	1.005	Storage Node_IN	25.8	1.466	1.123	0.0221	
60 minute summer	SW12(OFC)	6.002	Outfall	4.6	1.509	0.337	0.0087	33.9
60 minute winter	RE1	5.000	SW09	-1.4	-0.102	-0.078	0.2399	
60 minute summer	SW11(VTS)	6.001	SW12(OFC)	5.9	0.511	0.325	0.0376	
60 minute summer	Model Junction	3.003	SW10(CP)	10.9	0.618	0.608	0.0190	
60 minute summer	Storage Node_OUT	6.000	SW11(VTS)	8.2	0.526	0.464	0.0176	
60 minute summer	Storage Node_Perm Paving01	4.000	SW08	6.8	2.864	0.187	0.0100	
15 minute summer	Storage Node_Perm Paving02	2.000	SW04	10.5	1.783	0.219	0.0054	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	SW01	47	14.262	0.162	2.1	0.0617	0.0000	FLOOD RISK
60 minute summer	SW02	47	14.262	0.381	4.2	0.1176	0.0000	FLOOD RISK
60 minute summer	SW03	47	14.261	0.493	6.1	0.1377	0.0000	SURCHARGED
60 minute summer	SW04	47	14.261	0.621	12.9	0.1571	0.0000	SURCHARGED
60 minute summer	SW05	47	14.260	0.694	13.7	0.1714	0.0000	SURCHARGED
60 minute summer	SW06	59	14.261	0.336	2.3	0.1031	0.0000	SURCHARGED
60 minute summer	SW07	46	14.261	0.500	4.2	0.1470	0.0000	FLOOD RISK
60 minute summer	SW08	49	14.259	0.688	11.8	0.1762	0.0000	SURCHARGED
60 minute summer	SW09	48	14.259	0.295	2.0	0.0469	0.0000	SURCHARGED
60 minute summer	SW10(CP)	48	14.259	0.752	24.6	0.1881	0.0000	SURCHARGED
60 minute summer	SW12(OFC)	48	14.237	0.759	5.2	0.8585	0.0000	FLOOD RISK
60 minute summer	RE1	48	14.259	0.159	1.1	0.0000	0.0000	FLOOD RISK
60 minute summer	Outfall	48	13.373	0.039	4.4	0.0000	0.0000	OK
60 minute summer	SW11(VTS)	48	14.240	0.740	6.8	0.9821	0.0000	FLOOD RISK
60 minute summer	Model Junction	48	14.259	0.742	10.9	0.0000	0.0000	SURCHARGED
60 minute summer	Storage Node_IN	48	14.257	0.772	23.8	0.0000	0.0000	OK
60 minute summer	Storage Node_OUT	48	14.242	0.732	19.2	11.7889	0.0000	SURCHARGED
60 minute summer	Storage Node_Perm Paving01	49	14.259	0.059	6.2	1.1443	0.0000	OK
15 minute summer	Storage Node_Perm Paving02	10	14.329	0.029	10.8	0.5643	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)
60 minute summer	SW01	1.000	SW02	2.1	0.518	0.118	0.3850	
60 minute summer	SW02	1.001	SW03	4.0	0.639	0.225	0.1984	
60 minute summer	SW03	1.002	SW04	4.9	0.616	0.277	0.2252	
60 minute summer	SW04	1.003	SW05	11.6	0.830	0.367	0.0415	
60 minute summer	SW05	1.004	SW10(CP)	12.6	0.715	0.708	0.1053	
60 minute summer	SW06	3.000	SW07	2.1	0.484	0.115	0.2717	
60 minute summer	SW07	3.001	SW08	3.6	0.361	0.203	0.3432	
60 minute summer	SW08	3.002	Model Junction	10.9	0.618	0.612	0.0948	
60 minute summer	SW09	5.001	Model Junction	-2.0	-0.113	-0.023	0.0330	
60 minute summer	SW10(CP)	1.005	Storage Node_IN	23.8	1.352	1.035	0.0221	
60 minute summer	SW12(OFC)	6.002	Outfall	4.4	1.493	0.322	0.0084	30.8
60 minute summer	RE1	5.000	SW09	-1.1	-0.108	-0.060	0.2399	
60 minute summer	SW11(VTS)	6.001	SW12(OFC)	5.2	0.507	0.291	0.0376	
60 minute summer	Model Junction	3.003	SW10(CP)	10.0	0.571	0.561	0.0190	
60 minute summer	Storage Node_OUT	6.000	SW11(VTS)	6.8	0.517	0.384	0.0176	
60 minute summer	Storage Node_Perm Paving01	4.000	SW08	6.1	2.785	0.168	0.0081	
15 minute summer	Storage Node_Perm Paving02	2.000	SW04	9.8	1.690	0.203	0.0052	

Results for 100 year +45% CC Critical Storm Duration. Lowest 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 winter	SW01	56	14.491	0.391	3.4	0.1489	0.0000	FLOOD RISK
60 minute winter	SW02	56	14.491	0.610	4.2	0.1884	0.0000	FLOOD RISK
60 minute winter	SW03	56	14.490	0.722	5.8	0.2016	0.0000	FLOOD RISK
60 minute winter	SW04	56	14.490	0.850	11.3	0.2150	0.0000	FLOOD RISK
60 minute winter	SW05	56	14.489	0.923	12.3	0.2279	0.0000	FLOOD RISK
60 minute winter	SW06	58	14.488	0.563	2.4	0.1730	0.0000	FLOOD RISK
60 minute winter	SW07	56	14.488	0.727	3.6	0.2138	0.0000	FLOOD RISK
60 minute winter	SW08	57	14.488	0.917	10.5	0.2347	0.0000	FLOOD RISK
60 minute winter	SW09	57	14.487	0.523	3.9	0.0832	0.0000	FLOOD RISK
60 minute winter	SW10(CP)	57	14.487	0.981	22.1	0.2452	0.0000	FLOOD RISK
60 minute winter	SW12(OFC)	57	14.461	0.983	5.8	1.1122	0.0000	FLOOD RISK
60 minute summer	RE1	41	14.450	0.350	3.5	0.0000	0.0000	FLOOD RISK
60 minute winter	Outfall	57	13.376	0.042	5.1	0.0000	0.0000	OK
60 minute winter	SW11(VTS)	57	14.465	0.965	8.1	1.2810	0.0000	FLOOD RISK
60 minute winter	Model Junction	57	14.487	0.970	9.8	0.0000	0.0000	FLOOD RISK
60 minute winter	Storage Node_IN	57	14.485	1.000	21.5	0.0000	0.0000	OK
60 minute winter	Storage Node_OUT	57	14.467	0.957	19.2	11.9132	0.0000	FLOOD RISK
60 minute winter	Storage Node_Perm Paving01	57	14.489	0.289	11.7	5.6201	0.0000	FLOOD RISK
60 minute winter	Storage Node_Perm Paving02	57	14.490	0.190	6.2	3.7051	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SW01	1.000	SW02	2.2	0.488	0.121	0.3850	
60 minute winter	SW02	1.001	SW03	4.0	0.609	0.224	0.1984	
60 minute winter	SW03	1.002	SW04	5.4	0.614	0.305	0.2252	
60 minute winter	SW04	1.003	SW05	10.3	0.833	0.326	0.0415	
60 minute winter	SW05	1.004	SW10(CP)	11.3	0.643	0.636	0.1053	
60 minute winter	SW06	3.000	SW07	1.8	0.464	0.097	0.2717	
60 minute winter	SW07	3.001	SW08	3.0	0.370	0.174	0.3432	
60 minute winter	SW08	3.002	Model Junction	9.8	0.557	0.552	0.0948	
60 minute winter	SW09	5.001	Model Junction	-3.9	-0.224	-0.045	0.0330	
60 minute winter	SW10(CP)	1.005	Storage Node_IN	21.5	1.219	0.933	0.0221	
60 minute winter	SW12(OFC)	6.002	Outfall	5.1	1.544	0.369	0.0093	44.8
60 minute summer	RE1	5.000	SW09	-3.5	-0.247	-0.196	0.2399	
60 minute winter	SW11(VTS)	6.001	SW12(OFC)	5.8	0.569	0.321	0.0376	
60 minute winter	Model Junction	3.003	SW10(CP)	9.2	0.520	0.511	0.0190	
60 minute winter	Storage Node_OUT	6.000	SW11(VTS)	8.1	0.554	0.458	0.0176	
60 minute winter	Storage Node_Perm Paving01	4.000	SW08	-6.2	2.777	-0.170	0.0100	
60 minute winter	Storage Node_Perm Paving02	2.000	SW04	5.9	1.239	0.123	0.0083	