Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	45	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)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
H1	0.017	5.00	129.779	1200	420759.126	426741.087	1.024	128.755
1	0.027	5.00	129.899	1200	420747.239	426777.796	1.084	128.815
2	0.062	5.00	129.817	1200	420751.228	426765.491	2.317	127.500
3	0.015	5.00	129.188	450	420764.269	426775.893	0.718	128.470
J1			128.815		420766.083	426770.299	2.874	125.941
4	0.011	5.00	128.336	450	420775.215	426779.442	0.876	127.460
J2			128.027		420777.031	426773.842	3.235	124.792
5	0.016	5.00	127.912	450	420777.548	426780.199	1.112	126.800
J3			127.859		420779.364	426774.597	3.312	124.547
6		5.00	127.590	2400	420784.968	426792.948	4.090	123.500
7	0.023	5.00	127.107	2700	420789.820	426777.981	4.007	123.100
8	0.011	5.00	126.661	450	420798.091	426784.861	0.581	126.080
J4			126.449		420799.322	426781.064	3.083	123.366
9	0.016	5.00	126.099	450	420807.459	426789.659	0.874	125.225
10			125.737	2700	420809.206	426784.270	2.707	123.030
11	0.046	5.00	125.400	450	420834.002	426798.264	1.130	124.270
12			124.457	1200	420835.748	426792.876	1.257	123.200
Tank			124.750		420831.955	426791.646	2.500	122.250
13	0.012	5.00	124.785	1500	420833.284	426787.557	2.885	121.900
14			124.414	600	420843.418	426756.436	2.838	121.576

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	H1	2	25.650	0.600	128.755	127.650	1.105	23.2	300	5.13	50.0
2.000	1	2	12.935	0.600	128.815	127.650	1.165	11.1	150	5.07	50.0
1.001	2	J1	15.614	0.600	127.500	125.941	1.559	10.0	300	5.18	50.0
1.009	13	14	32.729	0.600	122.250	121.876	0.374	87.5	150	6.04	50.0
3.000	3	J1	5.881	0.600	128.470	126.091	2.379	2.5	150	5.02	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	3.277	231.6	4.5	0.724	1.867	0.017	0.0	28	1.298
2.000	3.040	53.7	7.1	0.934	2.017	0.027	0.0	37	2.114
1.001	4.995	353.1	27.8	2.017	2.574	0.106	0.0	57	3.022
1.009	1.075	19.0	67.1	2.385	2.388	0.256	0.0	150	1.095
3.000	6.458	114.1	3.9	0.568	2.574	0.015	0.0	19	3.025

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)
1.002	J1	J2	11.507	0.600	125.941	124.792	1.149	10.0	300	5.22	50.0
1.003	J2	J3	2.452	0.600	124.792	124.547	0.245	10.0	300	5.23	50.0
1.004	J3	7	10.990	0.600	124.547	123.450	1.097	10.0	300	5.27	50.0
1.006	J4	10	10.391	0.600	123.366	123.330	0.036	288.6	750	5.44	50.0
1.007	10	Tank	23.915	0.600	123.330	122.250	1.080	22.1	750	5.50	50.0
4.000	4	J2	5.887	0.600	127.460	124.942	2.518	2.3	150	5.01	50.0
5.000	5	J3	5.889	0.600	126.800	124.697	2.103	2.8	100	5.02	50.0
7.000	8	J4	3.992	0.600	126.080	123.966	2.114	1.9	150	5.01	50.0
8.000	9	10	5.665	0.600	125.225	123.930	1.295	4.4	150	5.02	50.0
9.000	11	12	5.664	0.600	124.270	123.650	0.620	9.1	150	5.03	50.0
9.001	12	Tank	3.987	0.600	123.500	122.250	1.250	3.2	300	5.04	50.0
1.005	7	J4	9.990	0.600	123.400	123.366	0.034	293.8	750	5.35	50.0
6.000	6	7	15.734	0.600	123.500	123.450	0.050	314.7	750	5.14	50.0
1.008	Tank	13	4.300	0.600	122.250	122.200	0.050	86.0	450	5.53	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)
1.002	4.995	353.1	31.7	2.574	2.935	0.121	0.0	60	3.130
1.003	4.997	353.2	34.6	2.935	3.012	0.132	0.0	63	3.218
1.004	4.994	353.0	38.8	3.012	3.357	0.148	0.0	67	3.318
1.006	1.963	2208.2	47.7	2.333	1.657	0.182	0.0	48	0.662
1.007	7.121	8010.6	51.9	1.657	1.750	0.198	0.0	23	1.531
4.000	6.641	117.4	2.9	0.726	2.935	0.011	0.0	16	2.795
5.000	4.657	36.6	4.2	1.012	3.062	0.016	0.0	23	3.115
7.000	7.392	130.6	2.9	0.431	2.333	0.011	0.0	16	3.038
8.000	4.852	85.7	4.2	0.724	1.657	0.016	0.0	23	2.526
9.000	3.353	59.3	12.1	0.980	0.657	0.046	0.0	46	2.647
9.001	8.861	626.4	12.1	0.657	2.200	0.046	0.0	28	3.522
1.005	1.945	2188.5	44.8	2.957	2.333	0.171	0.0	47	0.643
6.000	1.879	2114.2	0.0	3.340	2.907	0.000	0.0	0	0.000
1.008	2.193	348.8	63.9	2.050	2.135	0.244	0.0	130	1.687

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	25.650	23.2	300	Circular	129.779	128.755	0.724	129.817	127.650	1.867
2.000	12.935	11.1	150	Circular	129.899	128.815	0.934	129.817	127.650	2.017
1.001	15.614	10.0	300	Circular	129.817	127.500	2.017	128.815	125.941	2.574
1.009	32.729	87.5	150	Circular	124.785	122.250	2.385	124.414	121.876	2.388
3.000	5.881	2.5	150	Circular	129.188	128.470	0.568	128.815	126.091	2.574

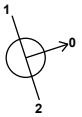
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	H1	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
2.000	1	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
1.001	2	1200	Manhole	Adoptable	J1		Junction	
1.009	13	1500	Manhole	Adoptable	14	600	Manhole	Adoptable
3.000	3	450	Manhole	Adoptable	J1		Junction	

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)
1.002	11.507	10.0	300	Circular	128.815	125.941	2.574	128.027	124.792	2.935
1.003	2.452	10.0	300	Circular	128.027	124.792	2.935	127.859	124.547	3.012
1.004	10.990	10.0	300	Circular	127.859	124.547	3.012	127.107	123.450	3.357
1.006	10.391	288.6	750	BC	126.449	123.366	2.333	125.737	123.330	1.657
1.007	23.915	22.1	750	BC	125.737	123.330	1.657	124.750	122.250	1.750
4.000	5.887	2.3	150	Circular	128.336	127.460	0.726	128.027	124.942	2.935
5.000	5.889	2.8	100	Circular	127.912	126.800	1.012	127.859	124.697	3.062
7.000	3.992	1.9	150	Circular	126.661	126.080	0.431	126.449	123.966	2.333
8.000	5.665	4.4	150	Circular	126.099	125.225	0.724	125.737	123.930	1.657
9.000	5.664	9.1	150	Circular	125.400	124.270	0.980	124.457	123.650	0.657
9.001	3.987	3.2	300	Circular	124.457	123.500	0.657	124.750	122.250	2.200
1.005	9.990	293.8	750	BC	127.107	123.400	2.957	126.449	123.366	2.333
6.000	15.734	314.7	750	BC	127.590	123.500	3.340	127.107	123.450	2.907
1.008	4.300	86.0	450	Circular	124.750	122.250	2.050	124.785	122.200	2.135

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.002	J1		Junction		J2		Junction	
1.003	J2		Junction		J3		Junction	
1.004	J3		Junction		7	2700	Manhole	Adoptable
1.006	J4		Junction		10	2700	Manhole	Adoptable
1.007	10	2700	Manhole	Adoptable	Tank		Junction	
4.000	4	450	Manhole	Adoptable	J2		Junction	
5.000	5	450	Manhole	Adoptable	J3		Junction	
7.000	8	450	Manhole	Adoptable	J4		Junction	
8.000	9	450	Manhole	Adoptable	10	2700	Manhole	Adoptable
9.000	11	450	Manhole	Adoptable	12	1200	Manhole	Adoptable
9.001	12	1200	Manhole	Adoptable	Tank		Junction	
1.005	7	2700	Manhole	Adoptable	J4		Junction	
6.000	6	2400	Manhole	Adoptable	7	2700	Manhole	Adoptable
1.008	Tank		Junction		13	1500	Manhole	Adoptable

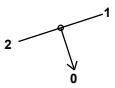
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H1	420759.126	426741.087	129.779	1.024	1200	 0	1.000	128.755	300
1	420747.239	426777.796	129.899	1.084	1200	 0	2.000	128.815	150
2	420751.228	426765.491	129.817	2.317	1200	 1 2 0	2.000 1.000 1.001	127.650 127.650 127.500	150 300 300
3	420764.269	426775.893	129.188	0.718	450	 0	3.000	128.470	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
J1	420766.083	426770.299	128.815	2.874		1	3.000	126.091	150
						2	1.001	125.941	300
						0	1.002	125.941	300
4	420775.215	426779.442	128.336	0.876	450	0	4.000	127.460	150
J2	420777.031	426773.842	128.027	3.235		1	4.000	124.942	150
						2	1.002	124.792	300
						0	1.003	124.792	300
5	420777.548	426780.199	127.912	1.112	450	0	5.000	126.800	100
J3	420779.364	426774.597	127.859	3.312		1	5.000	124.697	100
						2	1.003	124.547	300
						0	1.004	124.547	300
6	420784.968	426792.948	127.590	4.090	2400	0	6.000	123.500	750
7	420789.820	426777.981	127.107	4.007	2700	1	6.000	123.450	750
						2	1.004	123.450	300
						0	1.005	123.400	750
8	420798.091	426784.861	126.661	0.581	450	0	7.000	126.080	150
J4	420799.322	426781.064	126.449	3.083		1	7.000	123.966	150
						2	1.005	123.366	750
						0	1.006	123.366	750
9	420807.459	426789.659	126.099	0.874	450	0	8.000	125.225	150
10	420809.206	426784.270	125.737	2.707	2700	1	8.000	123.930	150
						2	1.006	123.330	750
						0	1.007	123.330	750
11	420834.002	426798.264	125.400	1.130	450	0	9.000	124.270	150
12	420835.748	426792.876	124.457	1.257	1200	1	9.000	123.650	150
						0	9.001	123.500	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections		Link	IL (m)	Dia (mm)
Tank	420831.955	426791.646	124.750	2.500			1	9.001	122.250	300
							2	1.007	122.250	750
							0	1.008	122.250	450
13	420833.284	426787.557	124.785	2.885	1500		1	1.008	122.200	450
							0	1.009	122.250	150
14	420843.418	426756.436	124.414	2.838	600		1	1.009	121.876	150

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Detailed	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/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 %)
1	0	0	0
2	0	0	0
30	0	0	0
100	45	0	0

Node 7 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	123.400	Product Number	CTL-SHE-0199-2200-1600-2200
Design Depth (m)	1.600	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	22.0	Min Node Diameter (mm)	1800

Node 13 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	122.250	Product Number	CTL-SHE-0080-3500-1600-3500
Design Depth (m)	1.600	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	3.5	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)	122.250
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	72.0	72.0	1.800	72.0	126.1	1.810	0.0	126.1

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	H1	10	128.774	0.019	1.8	0.0275	0.0000	OK
15 minute summer	1	10	128.839	0.024	2.9	0.0391	0.0000	OK
15 minute summer	2	10	127.537	0.036	11.2	0.0608	0.0000	OK
15 minute summer	3	10	128.483	0.013	1.6	0.0073	0.0000	OK
15 minute summer	J1	10	125.980	0.039	12.7	0.0000	0.0000	OK
15 minute summer	4	10	127.471	0.011	1.2	0.0045	0.0000	OK
15 minute summer	J2	10	124.832	0.040	13.9	0.0000	0.0000	OK
15 minute summer	5	10	126.815	0.015	1.7	0.0067	0.0000	OK
15 minute summer	J3	10	124.590	0.043	15.5	0.0000	0.0000	OK
15 minute summer	6	13	123.555	0.055	5.8	0.2493	0.0000	OK
15 minute summer	7	13	123.556	0.156	17.9	0.9100	0.0000	OK
15 minute summer	8	10	126.091	0.010	1.2	0.0056	0.0000	OK
15 minute summer	J4	13	123.387	0.021	12.0	0.0000	0.0000	OK
15 minute summer	9	10	125.240	0.015	1.7	0.0079	0.0000	OK
15 minute summer	10	13	123.340	0.010	12.9	0.0562	0.0000	OK
15 minute summer	11	10	124.301	0.031	4.9	0.0298	0.0000	OK
15 minute summer	12	9	123.519	0.019	4.9	0.0218	0.0000	OK
360 minute summer	Tank	232	122.510	0.260	8.1	18.7429	0.0000	OK
360 minute summer	13	232	122.510	0.310	6.1	0.5764	0.0000	SURCHARGED
360 minute summer	14	232	121.916	0.040	2.9	0.0000	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	H1	1.000	2	1.7	0.967	0.008	0.0462	
15 minute summer	1	2.000	2	2.9	1.597	0.053	0.0231	
15 minute summer	2	1.001	J1	11.1	2.193	0.032	0.0793	
15 minute summer	3	3.000	J1	1.6	2.303	0.014	0.0041	
15 minute summer	J1	1.002	J2	12.7	2.323	0.036	0.0629	
15 minute summer	4	4.000	J2	1.2	2.148	0.010	0.0033	
15 minute summer	J2	1.003	J3	13.8	2.360	0.039	0.0144	
15 minute summer	5	5.000	J3	1.7	2.367	0.046	0.0042	
15 minute summer	J3	1.004	7	15.5	2.052	0.044	0.1464	
15 minute summer	6	6.000	7	-5.8	-0.111	-0.003	1.8958	
15 minute summer	7	1.005	J4	11.4	0.368	0.005	0.3090	
15 minute summer	8	7.000	J4	1.2	2.330	0.009	0.0020	
15 minute summer	J4	1.006	10	12.0	0.515	0.005	0.2415	
15 minute summer	9	8.000	10	1.7	1.888	0.020	0.0051	
15 minute summer	10	1.007	Tank	12.9	0.422	0.002	1.9621	
15 minute summer	11	9.000	12	4.9	1.960	0.082	0.0141	
15 minute summer	12	9.001	Tank	4.9	3.173	0.008	0.0445	
360 minute summer	Tank	1.008	13	6.1	0.143	0.017	0.4546	
360 minute summer	13	1.009	14	2.9	0.776	0.153	0.1225	47.0

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	H1	10	128.778	0.023	2.7	0.0334	0.0000	OK
15 minute summer	1	10	128.844	0.029	4.3	0.0477	0.0000	OK
15 minute summer	2	10	127.545	0.044	16.8	0.0741	0.0000	OK
15 minute summer	3	10	128.485	0.015	2.4	0.0089	0.0000	OK
15 minute summer	J1	10	125.988	0.047	19.1	0.0000	0.0000	OK
15 minute summer	4	10	127.473	0.013	1.8	0.0054	0.0000	OK
15 minute summer	J2	10	124.841	0.049	20.9	0.0000	0.0000	OK
15 minute summer	5	10	126.818	0.018	2.5	0.0081	0.0000	OK
15 minute summer	J3	10	124.599	0.052	23.3	0.0000	0.0000	OK
15 minute summer	6	13	123.606	0.106	7.9	0.4785	0.0000	OK
15 minute summer	7	13	123.605	0.205	27.0	1.1968	0.0000	OK
15 minute summer	8	10	126.093	0.013	1.8	0.0068	0.0000	OK
15 minute summer	J4	13	123.393	0.026	17.5	0.0000	0.0000	OK
15 minute summer	9	10	125.243	0.018	2.5	0.0095	0.0000	OK
15 minute summer	10	12	123.342	0.012	19.3	0.0713	0.0000	OK
15 minute summer	11	10	124.308	0.038	7.3	0.0369	0.0000	OK
15 minute summer	12	10	123.523	0.023	7.3	0.0255	0.0000	OK
360 minute summer	Tank	240	122.604	0.354	10.1	25.4927	0.0000	OK
360 minute summer	13	240	122.604	0.404	4.0	0.7515	0.0000	SURCHARGED
360 minute summer	14	240	121.916	0.040	3.0	0.0000	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	H1	1.000	2	2.7	1.100	0.011	0.0619	
15 minute summer	1	2.000	2	4.3	1.792	0.079	0.0308	
15 minute summer	2	1.001	J1	16.7	2.476	0.047	0.1057	
15 minute summer	3	3.000	J1	2.4	2.600	0.021	0.0054	
15 minute summer	J1	1.002	J2	19.1	2.622	0.054	0.0838	
15 minute summer	4	4.000	J2	1.8	2.442	0.015	0.0043	
15 minute summer	J2	1.003	J3	20.9	2.667	0.059	0.0192	
15 minute summer	5	5.000	J3	2.5	2.650	0.068	0.0055	
15 minute summer	J3	1.004	7	23.3	2.010	0.066	0.2332	
15 minute summer	6	6.000	7	-7.9	-0.112	-0.004	3.0723	
15 minute summer	7	1.005	J4	16.6	0.426	0.008	0.3894	
15 minute summer	8	7.000	J4	1.8	2.641	0.014	0.0027	
15 minute summer	J4	1.006	10	17.6	0.604	0.008	0.3031	
15 minute summer	9	8.000	10	2.5	2.114	0.029	0.0067	
15 minute summer	10	1.007	Tank	19.1	0.441	0.002	2.8989	
15 minute summer	11	9.000	12	7.3	2.181	0.123	0.0189	
15 minute summer	12	9.001	Tank	7.3	3.202	0.012	0.0748	
360 minute summer	Tank	1.008	13	4.0	0.193	0.012	0.6102	
360 minute summer	13	1.009	14	3.0	0.784	0.158	0.1256	60.7

Results for 30 year Critical Storm Duration. Lowest mass balance: 96.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	H1	10	128.791	0.036	7.1	0.0531	0.0000	OK
15 minute summer	1	10	128.864	0.049	11.3	0.0790	0.0000	OK
15 minute summer	2	10	127.572	0.072	44.0	0.1204	0.0000	OK
15 minute summer	3	10	128.495	0.025	6.3	0.0142	0.0000	OK
15 minute summer	J1	10	126.017	0.076	50.2	0.0000	0.0000	OK
15 minute summer	4	10	127.481	0.021	4.6	0.0085	0.0000	OK
15 minute summer	J2	10	124.871	0.079	54.7	0.0000	0.0000	OK
15 minute summer	5	10	126.830	0.030	6.7	0.0134	0.0000	OK
15 minute summer	J3	10	124.631	0.084	61.3	0.0000	0.0000	OK
30 minute summer	6	23	124.004	0.504	20.5	2.2783	0.0000	OK
30 minute summer	7	23	124.004	0.603	65.1	3.5303	0.0000	OK
15 minute summer	8	10	126.100	0.020	4.6	0.0107	0.0000	OK
15 minute summer	J4	11	123.399	0.033	26.3	0.0000	0.0000	OK
15 minute summer	9	10	125.255	0.030	6.7	0.0157	0.0000	OK
15 minute summer	10	11	123.347	0.017	32.6	0.0985	0.0000	OK
15 minute summer	11	10	124.336	0.066	19.2	0.0640	0.0000	OK
15 minute summer	12	10	123.536	0.035	19.1	0.0401	0.0000	OK
240 minute winter	Tank	236	123.170	0.920	18.5	66.2375	0.0000	SURCHARGED
240 minute winter	13	236	123.170	0.970	3.4	1.8041	0.0000	SURCHARGED
15 minute summer	14	28	121.916	0.040	3.0	0.0000	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	H1	1.000	2	7.0	1.472	0.030	0.1222	
15 minute summer	1	2.000	2	11.2	2.342	0.209	0.0619	
15 minute summer	2	1.001	J1	43.9	3.254	0.124	0.2107	
15 minute summer	3	3.000	J1	6.3	3.459	0.055	0.0107	
15 minute summer	J1	1.002	J2	50.1	3.481	0.142	0.1656	
15 minute summer	4	4.000	J2	4.6	3.225	0.039	0.0084	
15 minute summer	J2	1.003	J3	54.6	3.532	0.155	0.0379	
15 minute summer	5	5.000	J3	6.7	3.507	0.183	0.0112	
15 minute summer	J3	1.004	7	61.2	2.085	0.173	0.4743	
30 minute summer	6	6.000	7	-20.5	-0.065	-0.010	12.4742	
30 minute summer	7	1.005	J4	22.0	0.480	0.010	0.4754	
15 minute summer	8	7.000	J4	4.6	3.490	0.035	0.0053	
15 minute summer	J4	1.006	10	26.2	0.692	0.012	0.3939	
15 minute summer	9	8.000	10	6.7	2.798	0.078	0.0135	
15 minute summer	10	1.007	Tank	32.7	0.487	0.004	7.5310	
15 minute summer	11	9.000	12	19.1	2.774	0.323	0.0391	
15 minute summer	12	9.001	Tank	19.1	3.740	0.031	0.1414	
240 minute winter	Tank	1.008	13	2.9	0.054	0.008	0.6813	
240 minute winter	13	1.009	14	3.0	0.784	0.159	0.1258	68.0

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 95.39%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	H1	10	128.804	0.049	13.1	0.0717	0.0000	OK
15 minute summer	1	10	128.884	0.069	20.8	0.1118	0.0000	OK
15 minute summer	2	10	127.600	0.100	81.4	0.1670	0.0000	OK
15 minute summer	3	10	128.503	0.033	11.6	0.0193	0.0000	OK
15 minute summer	J1	10	126.045	0.104	92.8	0.0000	0.0000	OK
15 minute summer	4	10	127.488	0.028	8.5	0.0115	0.0000	OK
60 minute summer	J2	42	125.790	0.998	71.5	0.0000	0.0000	SURCHARGED
15 minute summer	5	10	126.842	0.042	12.3	0.0186	0.0000	OK
60 minute summer	J3	42	125.789	1.242	80.2	0.0000	0.0000	SURCHARGED
60 minute summer	6	42	125.783	2.283	33.5	10.3295	0.0000	SURCHARGED
60 minute summer	7	42	125.784	2.384	92.0	13.9458	0.0000	SURCHARGED
15 minute summer	8	10	126.107	0.027	8.5	0.0145	0.0000	OK
360 minute winter	J4	352	123.799	0.433	18.7	0.0000	0.0000	OK
15 minute summer	9	10	125.266	0.041	12.3	0.0217	0.0000	OK
360 minute winter	10	352	123.799	0.469	20.4	2.6834	0.0000	OK
15 minute summer	11	10	124.370	0.100	35.5	0.0969	0.0000	OK
360 minute winter	12	352	123.799	0.299	4.8	0.3378	0.0000	OK
360 minute winter	Tank	352	123.799	1.549	25.1	111.5023	0.0000	SURCHARGED
360 minute winter	13	352	123.799	1.599	4.5	2.9735	0.0000	SURCHARGED
360 minute winter	14	352	121.919	0.043	3.4	0.0000	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	H1	1.000	2	13.0	1.763	0.056	0.1886	
15 minute summer	1	2.000	2	20.7	2.739	0.385	0.0977	
15 minute summer	2	1.001	J1	81.3	3.844	0.230	0.3301	
15 minute summer	3	3.000	J1	11.6	4.120	0.101	0.0165	
15 minute summer	J1	1.002	J2	92.7	4.142	0.262	0.4850	
15 minute summer	4	4.000	J2	8.5	3.851	0.072	0.0556	
60 minute summer	J2	1.003	J3	71.5	3.804	0.202	0.1727	
15 minute summer	5	5.000	J3	12.3	4.125	0.336	0.0302	
60 minute summer	J3	1.004	7	79.5	2.003	0.225	0.7739	
60 minute summer	6	6.000	7	-33.5	-0.040	-0.016	17.7089	
60 minute summer	7	1.005	J4	26.4	0.511	0.012	2.4412	
15 minute summer	8	7.000	J4	8.5	4.166	0.065	0.0081	
360 minute winter	J4	1.006	10	18.8	0.619	0.008	7.0240	
15 minute summer	9	8.000	10	12.3	3.291	0.143	0.0211	
360 minute winter	10	1.007	Tank	20.4	0.165	0.003	21.8642	
15 minute summer	11	9.000	12	35.4	3.143	0.597	0.0637	
360 minute winter	12	9.001	Tank	4.8	1.930	0.008	0.2806	
360 minute winter	Tank	1.008	13	3.8	0.044	0.011	0.6813	
360 minute winter	13	1.009	14	3.4	0.812	0.179	0.1372	102.7