Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
PS4	0.010	0.450	Type 2	95.441	94.541	0.750	432643.429	385172.394
PS3	0.005	0.450	Type 2	95.441	94.328	0.963	432636.346	385187.213
PS2	0.000	0.650	Type 2	95.556	94.231	1.175	432645.918	385191.863
PS5	0.000	0.450	Type 2	95.590	94.690	0.750	432652.692	385177.698
PS1	0.023	0.450	Type 2	95.556	94.229	1.177	432648.251	385187.010
S4	0.000	1.200	Type 2	95.000	93.750	1.100	432652.950	385189.433
PS10	0.002	0.450	Type 2	95.850	94.950	0.750	432631.701	385208.578
PS9	0.004	0.450	Type 2	95.850	94.789	0.911	432646.299	385215.616
PS8	0.001	0.450	Type 2	95.547	94.647	0.750	432636.000	385197.709
PS7	0.003	0.450	Type 2	95.822	94.479	1.193	432651.353	385205.065
PS6	0.000	1.200	Type 2	95.000	94.350	0.350	432656.470	385194.620
S3	0.000	1.350	Type 1B	95.000	93.650	0.975	432654.546	385193.679
S2	0.000	1.500	Type 1B	95.754	93.000	2.604	432653.399	385196.363
S1	0.000	1.200	Type 1B	95.763	92.888	2.725	432653.170	385199.266

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)
1.000	PS4	94.541	PS3	94.378	Circ	0.15mØ	16.425	100.8	0.600	0.750
1.001	PS3	94.328	PS2	94.231	Circ	0.15mØ	10.641	109.7	0.600	0.963
1.002	PS2	94.281	PS1	94.229	Circ	0.15mØ	5.384	103.4	0.600	1.125
2.000	PS5	94.690	PS1	94.229	Circ	0.15mØ	10.317	22.4	0.600	0.750
1.003	PS1	94.229	S4	93.750	Circ	0.15mØ	5.287	11.0	0.600	1.177
1.004	S4	93.750	S3	93.725	Circ	0.3mØ	4.536	181.4	0.600	0.950
3.000	PS10	94.950	PS9	94.789	Circ	0.15mØ	16.206	100.7	0.600	0.750
3.001	PS9	94.789	PS7	94.529	Circ	0.15mØ	11.699	45.0	0.600	0.911
4.000	PS8	94.647	PS7	94.479	Circ	0.15mØ	17.024	101.3	0.600	0.750
3.002	PS7	94.479	PS6	94.350	Circ	0.3mØ	11.631	90.2	0.600	1.043
3.003	PS6	94.350	S3	93.725	Circ	0.3mØ	2.142	3.4	0.600	0.350
1.005	S3	93.650	S2	93.527	Circ	0.375mØ	2.919	23.7	0.600	0.975
1.006	S2	93.000	S1	92.888	Circ	0.15mØ	2.912	26.0	0.600	2.604

Outfall Details

Outfall Manhole S1 : Free Discharge

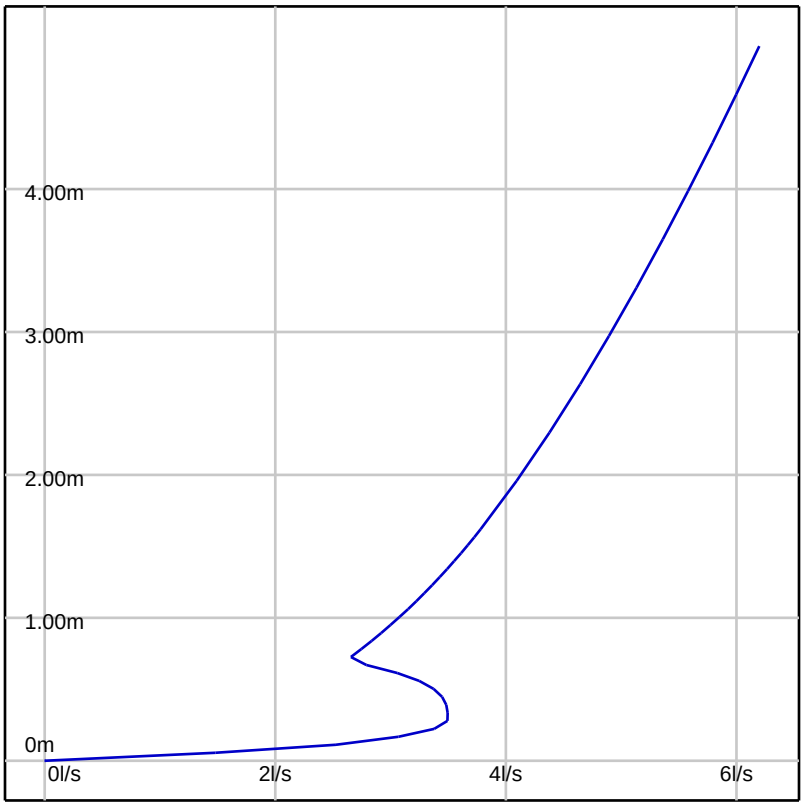
Flow Control Details

Controls within Manhole S3

StormBrake Control at Manhole S3

Model Ref	Design Depth (m)	Design Flow (l/s)	Depth Above Invert (m)	FF Head (m)	FF Flow (l/s)	KF Head (m)	KF Flow (l/s)
FPM-SB1-01350-00350-1100	1.350	3.500	0.000	0.291	3.496	0.700	2.611

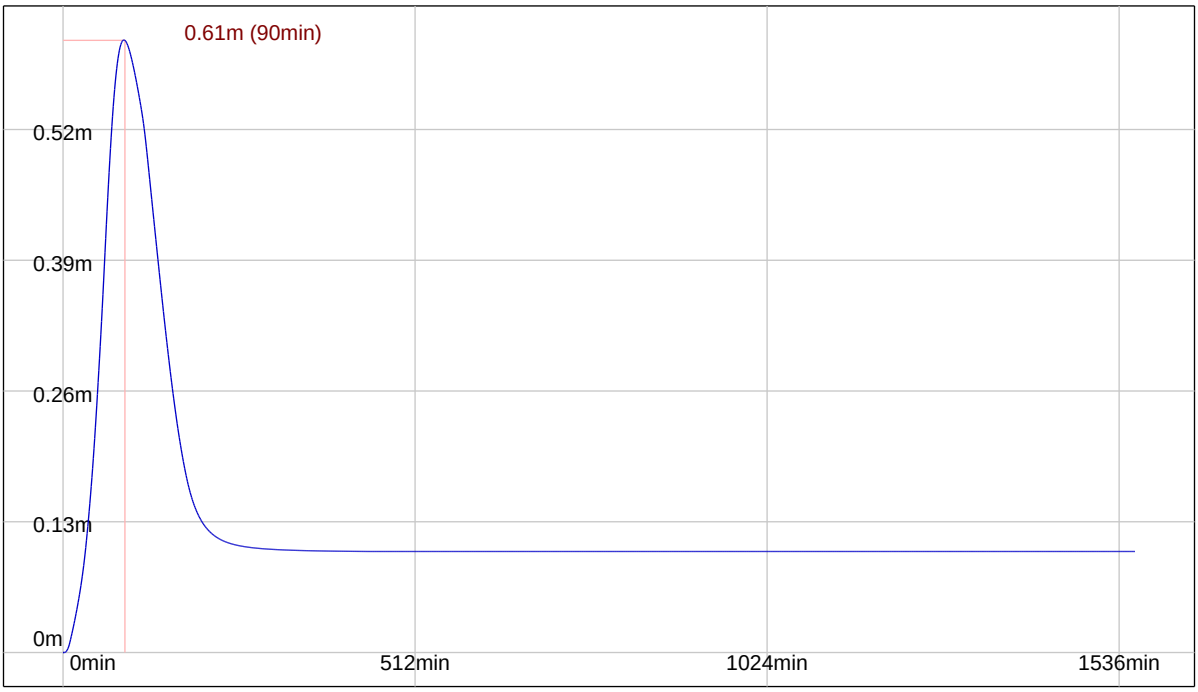
StormBrake Control at S3



Tank Structure at Manhole S3

Tank Invert (m)	Tank Height (m)	Void Ratio (%)	Area (m2)	Effective Area (m2) Area x Void Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
93.650	0.800	95.00	30.007	28.506	22.805	0.00000000	0.00000000	2.00

Tank at S3 (100Yr+40% 120Min Winter)



Simulation Settings

FSR: M5-60=19.00, R=0.36, Locale=England and Wales

Summer (Cv: 1.00), Winter (Cv: 1.00)

Global Time of Entry: 5.0 mins

Durations (mins): 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Periods (yrs) + Climate Change: (1, +0%), (2, +0%), (5, +0%), (10, +0%), (30, +0%), (100, +0%), (100, +40%)

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
1Yr 15Min Winter	33.575	0.00	3.49	10Yr 360Min Summer	6.319	0.00	0.77
1Yr 15Min Summer	33.575	0.00	3.90	10Yr 360Min Winter	6.319	0.00	0.75
1Yr 30Min Winter	21.657	0.00	2.63	10Yr 480Min Summer	5.113	0.00	0.72
1Yr 30Min Summer	21.657	0.00	2.73	10Yr 480Min Winter	5.113	0.00	0.69
1Yr 60Min Summer	13.523	0.00	2.18	10Yr 600Min Summer	4.336	0.00	0.68
1Yr 60Min Winter	13.523	0.00	2.11	10Yr 600Min Winter	4.336	0.00	0.66
1Yr 120Min Summer	8.320	0.00	1.76	10Yr 720Min Summer	3.789	0.00	0.64
1Yr 120Min Winter	8.320	0.00	1.71	10Yr 720Min Winter	3.789	0.00	0.62
1Yr 180Min Winter	6.253	0.00	1.51	10Yr 960Min Summer	3.061	0.00	0.60
1Yr 180Min Summer	6.253	0.00	1.56	10Yr 960Min Winter	3.061	0.00	0.58
1Yr 240Min Summer	5.110	0.00	1.44	10Yr 1440Min Summer	2.265	0.00	0.53
1Yr 240Min Winter	5.110	0.00	1.39	10Yr 1440Min Winter	2.265	0.00	0.49
1Yr 360Min Winter	3.844	0.00	1.23	30Yr 15Min Summer	69.495	0.00	1.87
1Yr 360Min Summer	3.844	0.00	1.27	30Yr 15Min Winter	69.495	0.00	1.66
1Yr 480Min Summer	3.136	0.00	1.17	30Yr 30Min Summer	46.054	0.00	1.26
1Yr 480Min Winter	3.136	0.00	1.13	30Yr 30Min Winter	46.054	0.00	1.22
1Yr 600Min Summer	2.679	0.00	1.09	30Yr 60Min Summer	29.238	0.00	0.99
1Yr 600Min Winter	2.679	0.00	1.06	30Yr 60Min Winter	29.238	0.00	0.96
1Yr 720Min Winter	2.354	0.00	1.00	30Yr 120Min Summer	18.026	0.00	0.80
1Yr 720Min Summer	2.354	0.00	1.04	30Yr 120Min Winter	18.026	0.00	0.78
1Yr 960Min Summer	1.921	0.00	0.95	30Yr 180Min Summer	13.436	0.00	0.72
1Yr 960Min Winter	1.921	0.00	0.92	30Yr 180Min Winter	13.436	0.00	0.70
1Yr 1440Min Winter	1.442	0.00	0.72	30Yr 240Min Summer	10.855	0.00	0.67
1Yr 1440Min Summer	1.442	0.00	0.77	30Yr 240Min Winter	10.855	0.00	0.65
2Yr 15Min Summer	38.941	0.00	3.37	30Yr 360Min Summer	8.011	0.00	0.61
2Yr 15Min Winter	38.941	0.00	3.01	30Yr 360Min Winter	8.011	0.00	0.59
2Yr 30Min Summer	25.257	0.00	2.34	30Yr 480Min Summer	6.455	0.00	0.56
2Yr 30Min Winter	25.257	0.00	2.26	30Yr 480Min Winter	6.455	0.00	0.55
2Yr 60Min Summer	15.824	0.00	1.86	30Yr 600Min Summer	5.457	0.00	0.54
2Yr 60Min Winter	15.824	0.00	1.80	30Yr 600Min Winter	5.457	0.00	0.52
2Yr 120Min Summer	9.740	0.00	1.51	30Yr 720Min Summer	4.755	0.00	0.51
2Yr 120Min Winter	9.740	0.00	1.46	30Yr 720Min Winter	4.755	0.00	0.50
2Yr 180Min Summer	7.308	0.00	1.34	30Yr 960Min Summer	3.823	0.00	0.48
2Yr 180Min Winter	7.308	0.00	1.30	30Yr 960Min Winter	3.823	0.00	0.46
2Yr 240Min Summer	5.958	0.00	1.23	30Yr 1440Min Summer	2.809	0.00	0.43
2Yr 240Min Winter	5.958	0.00	1.19	30Yr 1440Min Winter	2.809	0.00	0.40
2Yr 360Min Summer	4.464	0.00	1.09	100Yr 15Min Summer	89.906	0.00	1.43
2Yr 360Min Winter	4.464	0.00	1.06	100Yr 15Min Winter	89.906	0.00	1.27
2Yr 480Min Summer	3.634	0.00	1.01	100Yr 30Min Summer	60.154	0.00	0.96
2Yr 480Min Winter	3.634	0.00	0.98	100Yr 30Min Winter	60.154	0.00	0.93
2Yr 600Min Winter	3.097	0.00	0.92	100Yr 60Min Summer	38.413	0.00	0.75
2Yr 600Min Summer	3.097	0.00	0.95	100Yr 60Min Winter	38.413	0.00	0.73
2Yr 720Min Summer	2.717	0.00	0.90	100Yr 120Min Summer	23.700	0.00	0.61
2Yr 720Min Winter	2.717	0.00	0.87	100Yr 120Min Winter	23.700	0.00	0.60
2Yr 960Min Summer	2.210	0.00	0.83	100Yr 180Min Summer	17.613	0.00	0.55
2Yr 960Min Winter	2.210	0.00	0.80	100Yr 180Min Winter	17.613	0.00	0.53
2Yr 1440Min Summer	1.652	0.00	0.69	100Yr 240Min Summer	14.172	0.00	0.51
2Yr 1440Min Winter	1.652	0.00	0.64	100Yr 240Min Winter	14.172	0.00	0.50
5Yr 15Min Summer	47.372	0.00	2.77	100Yr 360Min Summer	10.389	0.00	0.47
5Yr 15Min Winter	47.372	0.00	2.48	100Yr 360Min Winter	10.389	0.00	0.45
5Yr 30Min Summer	30.949	0.00	1.91	100Yr 480Min Summer	8.335	0.00	0.44
5Yr 30Min Winter	30.949	0.00	1.83	100Yr 480Min Winter	8.335	0.00	0.42
5Yr 60Min Summer	19.477	0.00	1.50	100Yr 600Min Summer	7.020	0.00	0.42
5Yr 60Min Winter	19.477	0.00	1.45	100Yr 600Min Winter	7.020	0.00	0.40
5Yr 120Min Winter	11.995	0.00	1.18	100Yr 720Min Summer	6.098	0.00	0.40

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
5Yr 120Min Summer	11.995	0.00	1.22	100Yr 720Min Winter	6.098	0.00	0.39
5Yr 180Min Summer	8.980	0.00	1.08	100Yr 960Min Summer	4.878	0.00	0.38
5Yr 180Min Winter	8.980	0.00	1.05	100Yr 960Min Winter	4.878	0.00	0.36
5Yr 240Min Summer	7.299	0.00	1.00	100Yr 1440Min Summer	3.556	0.00	0.34
5Yr 240Min Winter	7.299	0.00	0.97	100Yr 1440Min Winter	3.556	0.00	0.32
5Yr 360Min Summer	5.441	0.00	0.90	100Yr+40% 15Min Summer	125.869	0.00	1.01
5Yr 360Min Winter	5.441	0.00	0.87	100Yr+40% 15Min Winter	125.869	0.00	0.89
5Yr 480Min Summer	4.414	0.00	0.83	100Yr+40% 30Min Summer	84.215	0.00	0.67
5Yr 480Min Winter	4.414	0.00	0.80	100Yr+40% 30Min Winter	84.215	0.00	0.65
5Yr 600Min Summer	3.751	0.00	0.78	100Yr+40% 60Min Summer	53.779	0.00	0.53
5Yr 600Min Winter	3.751	0.00	0.76	100Yr+40% 60Min Winter	53.779	0.00	0.51
5Yr 720Min Summer	3.283	0.00	0.74	100Yr+40% 120Min Summer	33.180	0.00	0.43
5Yr 720Min Winter	3.283	0.00	0.72	100Yr+40% 120Min Winter	33.180	0.00	0.42
5Yr 960Min Summer	2.661	0.00	0.69	100Yr+40% 180Min Summer	24.659	0.00	0.39
5Yr 960Min Winter	2.661	0.00	0.67	100Yr+40% 180Min Winter	24.659	0.00	0.38
5Yr 1440Min Summer	1.977	0.00	0.59	100Yr+40% 240Min Summer	19.841	0.00	0.36
5Yr 1440Min Winter	1.977	0.00	0.55	100Yr+40% 240Min Winter	19.841	0.00	0.35
10Yr 15Min Summer	54.942	0.00	2.39	100Yr+40% 360Min Summer	14.545	0.00	0.33
10Yr 15Min Winter	54.942	0.00	2.13	100Yr+40% 360Min Winter	14.545	0.00	0.32
10Yr 30Min Summer	36.094	0.00	1.62	100Yr+40% 480Min Summer	11.669	0.00	0.31
10Yr 30Min Winter	36.094	0.00	1.56	100Yr+40% 480Min Winter	11.669	0.00	0.30
10Yr 60Min Summer	22.792	0.00	1.27	100Yr+40% 600Min Summer	9.828	0.00	0.30
10Yr 60Min Winter	22.792	0.00	1.23	100Yr+40% 600Min Winter	9.828	0.00	0.29
10Yr 120Min Summer	14.042	0.00	1.03	100Yr+40% 720Min Summer	8.537	0.00	0.28
10Yr 120Min Winter	14.042	0.00	1.00	100Yr+40% 720Min Winter	8.537	0.00	0.28
10Yr 180Min Summer	10.494	0.00	0.92	100Yr+40% 960Min Summer	6.830	0.00	0.27
10Yr 180Min Winter	10.494	0.00	0.90	100Yr+40% 960Min Winter	6.830	0.00	0.26
10Yr 240Min Summer	8.510	0.00	0.85	100Yr+40% 1440Min Winter	4.978	0.00	0.23
10Yr 240Min Winter	8.510	0.00	0.83	100Yr+40% 1440Min Summer	4.978	0.00	0.24

Simulation Results

Return Period Yrs: 1.0

Climate Change %: 0

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS4	15 min Winter	8	94.572	0.031	1.711		OK
PS3	15 min Winter	8	94.367	0.039	2.565		OK
PS2	15 min Winter	9	94.319	0.088	2.498		OK
PS5	-	0	94.690	0.000	0.000		OK
PS1	15 min Winter	8	94.264	0.035	6.673		OK
S4	15 min Winter	8	93.807	0.057	6.643		OK
PS10	15 min Winter	8	94.964	0.014	0.339		OK
PS9	15 min Winter	8	94.809	0.020	1.006		OK
PS8	15 min Winter	9	94.658	0.011	0.200		OK
PS7	15 min Winter	9	94.506	0.027	1.634		OK
PS6	15 min Winter	9	94.361	0.011	1.652		OK
S3	180 min Summer	107	93.721	0.171	1.466		OK
S2	180 min Summer	108	93.021	0.021	1.446		OK
S1	180 min Summer	108	92.909	0.021	1.446		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	8	PS4	PS3	0.031	0.634	1.673	0.095	OK
1.001	15 min Winter	8	PS3	PS2	0.064	0.445	2.538	0.150	OK
1.002	15 min Winter	9	PS2	PS1	0.037	0.755	2.522	0.145	OK
2.000	15 min Winter	8	PS5	PS1	0.018	0.000	0.000	0.000	OK
1.003	15 min Winter	8	PS1	S4	0.046	1.443	6.643	0.123	OK
1.004	15 min Winter	8	S4	S3	0.057	0.711	6.553	0.080	OK
3.000	15 min Winter	8	PS10	PS9	0.017	0.300	0.329	0.019	OK
3.001	15 min Winter	8	PS9	PS7	0.020	0.719	0.979	0.037	OK
4.000	15 min Winter	9	PS8	PS7	0.019	0.156	0.205	0.012	OK
3.002	15 min Winter	9	PS7	PS6	0.019	0.865	1.652	0.014	OK
3.003	15 min Winter	9	PS6	S3	0.011	1.889	1.659	0.003	OK
1.005	180 min Summer	107	S3	S2	0.016	0.886	1.447	0.004	OK
1.006	180 min Summer	108	S2	S1	0.021	0.980	1.446	0.041	OK

Return Period Yrs: 2.0

Climate Change %: 0

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS4	15 min Winter	8	94.574	0.033	1.984		OK
PS3	15 min Winter	8	94.370	0.042	2.977		OK
PS2	15 min Winter	9	94.322	0.091	2.895		OK
PS5	-	0	94.690	0.000	0.000		OK
PS1	15 min Winter	8	94.267	0.038	7.748		OK
S4	15 min Winter	8	93.811	0.061	7.716		OK
PS10	15 min Winter	8	94.965	0.015	0.393		OK
PS9	15 min Winter	8	94.810	0.021	1.168		OK
PS8	15 min Winter	8	94.659	0.012	0.248		OK
PS7	15 min Winter	9	94.508	0.029	1.894		OK
PS6	15 min Winter	9	94.362	0.012	1.916		OK
S3	180 min Summer	106	93.739	0.189	1.806		OK
S2	180 min Summer	107	93.023	0.023	1.773		OK
S1	180 min Summer	107	92.911	0.023	1.773		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	8	PS4	PS3	0.033	0.662	1.944	0.110	OK
1.001	15 min Winter	8	PS3	PS2	0.067	0.445	2.948	0.174	OK
1.002	15 min Winter	9	PS2	PS1	0.040	0.787	2.923	0.168	OK
2.000	15 min Winter	8	PS5	PS1	0.019	0.000	0.000	0.000	OK
1.003	15 min Winter	8	PS1	S4	0.050	1.511	7.716	0.143	OK
1.004	15 min Winter	8	S4	S3	0.061	0.743	7.622	0.093	OK
3.000	15 min Winter	8	PS10	PS9	0.018	0.314	0.382	0.022	OK
3.001	15 min Winter	8	PS9	PS7	0.021	0.753	1.138	0.043	OK
4.000	15 min Winter	9	PS8	PS7	0.020	0.165	0.238	0.014	OK
3.002	15 min Winter	9	PS7	PS6	0.021	0.905	1.916	0.016	OK
3.003	15 min Winter	9	PS6	S3	0.012	1.975	1.923	0.003	OK
1.005	180 min Summer	106	S3	S2	0.018	0.939	1.773	0.004	OK
1.006	180 min Summer	107	S2	S1	0.023	1.041	1.773	0.051	OK

Return Period Yrs: 5.0

Climate Change %: 0

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS4	15 min Winter	8	94.578	0.037	2.414		OK
PS3	15 min Winter	8	94.375	0.047	3.625		OK
PS2	15 min Winter	8	94.327	0.096	3.593		OK
PS5	-	0	94.690	0.000	0.000		OK
PS1	15 min Winter	8	94.271	0.042	9.435		OK
S4	15 min Winter	8	93.817	0.067	9.399		OK
PS10	15 min Winter	8	94.967	0.017	0.478		OK
PS9	15 min Winter	8	94.812	0.023	1.422		OK
PS8	15 min Winter	8	94.660	0.013	0.302		OK
PS7	15 min Winter	8	94.511	0.032	2.361		OK
PS6	15 min Winter	9	94.363	0.013	2.330		OK
S3	120 min Summer	74	93.771	0.221	2.291		OK
S2	120 min Summer	74	93.026	0.026	2.329		OK
S1	120 min Summer	74	92.914	0.026	2.329		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	8	PS4	PS3	0.037	0.701	2.368	0.134	OK
1.001	15 min Winter	8	PS3	PS2	0.071	0.435	3.593	0.212	OK
1.002	15 min Winter	8	PS2	PS1	0.044	0.832	3.551	0.204	OK
2.000	15 min Winter	8	PS5	PS1	0.021	0.000	0.000	0.000	OK
1.003	15 min Winter	8	PS1	S4	0.055	1.608	9.399	0.174	OK
1.004	15 min Winter	8	S4	S3	0.067	0.786	9.297	0.113	OK
3.000	15 min Winter	8	PS10	PS9	0.020	0.334	0.467	0.026	OK
3.001	15 min Winter	8	PS9	PS7	0.023	0.798	1.390	0.052	OK
4.000	15 min Winter	8	PS8	PS7	0.022	0.176	0.292	0.017	OK
3.002	15 min Winter	9	PS7	PS6	0.022	0.967	2.330	0.020	OK
3.003	120 min Summer	73	PS6	S3	0.026	1.680	1.135	0.002	OK
1.005	120 min Summer	74	S3	S2	0.020	1.022	2.329	0.006	OK
1.006	120 min Summer	74	S2	S1	0.026	1.129	2.329	0.067	OK

Return Period Yrs: 10.0

Climate Change %: 0

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS4	15 min Winter	8	94.581	0.040	2.800		OK
PS3	15 min Winter	8	94.378	0.050	4.207		OK
PS2	15 min Winter	8	94.330	0.099	4.173		OK
PS5	-	0	94.690	0.000	0.000		OK
PS1	15 min Winter	8	94.275	0.046	10.952		OK
S4	15 min Winter	8	93.823	0.073	10.912		OK
PS10	15 min Winter	8	94.968	0.018	0.555		OK
PS9	15 min Winter	8	94.814	0.025	1.651		OK
PS8	15 min Winter	8	94.661	0.014	0.350		OK
PS7	15 min Winter	8	94.513	0.034	2.743		OK
PS6	15 min Winter	9	94.364	0.014	2.701		OK
S3	120 min Summer	74	93.800	0.250	2.690		OK
S2	120 min Summer	74	93.028	0.028	2.692		OK
S1	120 min Summer	74	92.916	0.028	2.691		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	8	PS4	PS3	0.040	0.732	2.749	0.156	OK
1.001	15 min Winter	8	PS3	PS2	0.075	0.473	4.173	0.247	OK
1.002	15 min Winter	8	PS2	PS1	0.048	0.867	4.127	0.237	OK
2.000	15 min Winter	8	PS5	PS1	0.023	0.000	0.000	0.000	OK
1.003	15 min Winter	8	PS1	S4	0.059	1.686	10.912	0.203	OK
1.004	15 min Winter	8	S4	S3	0.072	0.821	10.799	0.131	OK
3.000	15 min Winter	8	PS10	PS9	0.021	0.349	0.542	0.031	OK
3.001	15 min Winter	8	PS9	PS7	0.025	0.835	1.616	0.061	OK
4.000	15 min Winter	8	PS8	PS7	0.024	0.185	0.340	0.019	OK
3.002	15 min Winter	9	PS7	PS6	0.024	1.017	2.701	0.023	OK
3.003	120 min Summer	73	PS6	S3	0.041	1.751	1.328	0.002	OK
1.005	120 min Summer	74	S3	S2	0.021	1.072	2.692	0.007	OK
1.006	120 min Summer	74	S2	S1	0.028	1.179	2.691	0.077	OK

Return Period Yrs: 30.0

Climate Change %: 0

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS4	15 min Winter	8	94.586	0.045	3.542		OK
PS3	15 min Winter	8	94.385	0.057	5.326		OK
PS2	15 min Winter	8	94.337	0.106	5.287		OK
PS5	-	0	94.690	0.000	0.000		OK
PS1	15 min Winter	8	94.281	0.052	13.868		OK
S4	120 min Summer	75	93.861	0.111	2.424		OK
PS10	15 min Winter	8	94.970	0.020	0.701		OK
PS9	15 min Winter	8	94.817	0.028	2.090		OK
PS8	15 min Winter	8	94.663	0.016	0.443		OK
PS7	15 min Winter	8	94.517	0.038	3.479		OK
PS6	15 min Winter	9	94.366	0.016	3.413		OK
S3	120 min Summer	75	93.861	0.311	3.045		OK
S2	120 min Summer	75	93.030	0.030	3.179		OK
S1	120 min Summer	75	92.918	0.030	3.179		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	8	PS4	PS3	0.045	0.783	3.481	0.197	OK
1.001	15 min Winter	8	PS3	PS2	0.082	0.538	5.287	0.313	OK
1.002	15 min Winter	8	PS2	PS1	0.054	0.925	5.235	0.300	OK
2.000	15 min Winter	8	PS5	PS1	0.026	0.000	0.000	0.000	OK
1.003	15 min Winter	8	PS1	S4	0.067	1.819	13.821	0.257	OK
1.004	120 min Summer	75	S4	S3	0.123	0.715	6.690	0.081	OK
3.000	15 min Winter	8	PS10	PS9	0.024	0.374	0.688	0.039	OK
3.001	15 min Winter	8	PS9	PS7	0.028	0.895	2.050	0.077	OK
4.000	15 min Winter	8	PS8	PS7	0.027	0.200	0.432	0.025	OK
3.002	15 min Winter	8	PS7	PS6	0.027	1.090	3.431	0.029	OK
3.003	120 min Summer	74	PS6	S3	0.072	1.741	1.708	0.003	OK
1.005	120 min Summer	75	S3	S2	0.023	1.130	3.179	0.008	OK
1.006	120 min Summer	75	S2	S1	0.030	1.237	3.179	0.091	OK

Return Period Yrs: 100.0

Climate Change %: 0

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS4	15 min Winter	8	94.592	0.051	4.582		OK
PS3	15 min Winter	8	94.394	0.066	6.896		OK
PS2	15 min Winter	8	94.346	0.115	6.850		OK
PS5	-	0	94.690	0.000	0.000		OK
PS1	15 min Winter	8	94.288	0.059	17.959		OK
S4	60 min Winter	46	93.958	0.208	2.719		OK
PS10	15 min Winter	8	94.973	0.023	0.906		OK
PS9	15 min Winter	8	94.821	0.032	2.706		OK
PS8	15 min Winter	8	94.665	0.018	0.573		OK
PS7	15 min Winter	8	94.522	0.043	4.510		OK
PS6	15 min Winter	8	94.368	0.018	4.457		OK
S3	60 min Winter	46	93.958	0.408	3.457		OK
S2	60 min Winter	46	93.032	0.032	3.493		OK
S1	60 min Winter	46	92.920	0.032	3.493		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	8	PS4	PS3	0.051	0.842	4.510	0.255	OK
1.001	15 min Winter	8	PS3	PS2	0.090	0.617	6.850	0.405	OK
1.002	15 min Winter	8	PS2	PS1	0.062	0.991	6.789	0.390	OK
2.000	15 min Winter	8	PS5	PS1	0.030	0.000	0.000	0.000	OK
1.003	60 min Summer	35	PS1	S4	0.095	1.783	13.178	0.245	OK
1.004	60 min Winter	46	S4	S3	0.220	0.792	9.613	0.117	OK
3.000	15 min Winter	8	PS10	PS9	0.027	0.404	0.892	0.051	OK
3.001	15 min Winter	8	PS9	PS7	0.032	0.966	2.660	0.100	OK
4.000	15 min Winter	8	PS8	PS7	0.030	0.218	0.561	0.032	OK
3.002	15 min Winter	8	PS7	PS6	0.030	1.183	4.457	0.038	OK
3.003	60 min Winter	45	PS6	S3	0.120	2.002	2.476	0.004	OK
1.005	60 min Winter	46	S3	S2	0.024	1.161	3.493	0.008	OK
1.006	60 min Winter	46	S2	S1	0.032	1.272	3.493	0.100	OK

Return Period Yrs: 100.0
Climate Change %: 40

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS4	15 min Winter	8	94.603	0.062	6.414		OK
PS3	15 min Winter	8	94.408	0.080	9.662		OK
PS2	15 min Winter	8	94.360	0.129	9.602		OK
PS5	-	0	94.690	0.000	0.000		OK
PS1	15 min Winter	8	94.301	0.072	25.166		OK
S4	120 min Winter	89	94.159	0.409	2.615		Surcharged
PS10	15 min Winter	8	94.977	0.027	1.269		OK
PS9	15 min Winter	8	94.827	0.038	3.791		OK
PS8	15 min Winter	8	94.668	0.021	0.801		OK
PS7	15 min Winter	8	94.529	0.050	6.326		OK
PS6	15 min Winter	8	94.371	0.021	6.253		OK
S3	120 min Winter	89	94.159	0.609	3.307		Surcharged
S2	120 min Winter	128	93.032	0.032	3.495		OK
S1	240 min Summer	178	92.920	0.032	3.495		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	8	PS4	PS3	0.062	0.923	6.322	0.358	OK
1.001	15 min Winter	8	PS3	PS2	0.104	0.731	9.602	0.568	OK
1.002	15 min Winter	8	PS2	PS1	0.075	1.081	9.531	0.547	OK
2.000	15 min Winter	8	PS5	PS1	0.036	0.000	0.000	0.000	OK
1.003	30 min Summer	17	PS1	S4	0.109	2.172	24.144	0.448	OK
1.004	30 min Winter	23	S4	S3	0.300	0.978	19.997	0.243	Surcharged
3.000	15 min Winter	8	PS10	PS9	0.032	0.446	1.252	0.071	OK
3.001	15 min Winter	8	PS9	PS7	0.038	1.066	3.734	0.141	OK
4.000	15 min Winter	8	PS8	PS7	0.036	0.244	0.788	0.045	OK
3.002	15 min Winter	8	PS7	PS6	0.036	1.325	6.253	0.053	OK
3.003	60 min Summer	35	PS6	S3	0.158	2.046	4.659	0.008	OK
1.005	60 min Winter	79	S3	S2	0.024	1.161	3.495	0.008	OK
1.006	240 min Summer	178	S2	S1	0.032	1.272	3.495	0.100	OK