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)	0.900
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)
S1	0.045	5.00	61.255	1200	387697.279	397789.585	1.251	60.004
S2	0.065	5.00	60.826	600	387671.740	397796.919	1.155	59.671
S3	0.087	5.00	60.818	1200	387652.119	397783.922	1.386	59.432
S4	0.017	5.00	60.639	1200	387643.495	397768.276	1.363	59.276
S5	0.020	5.00	61.250	1200	387645.377	397748.316	1.650	59.600
SW J1	0.023	5.00	60.458		387641.513	397747.165	1.350	59.108
S7	0.029	5.00	61.250	1200	387642.521	397718.656	1.650	59.600
SW J2	0.041	5.00	60.214		387638.640	397716.566	1.350	58.864
S9	0.030	5.00	60.570	1200	387637.802	397693.928	1.525	59.045
SW J3	0.050	5.00	60.025		387636.415	397692.878	1.350	58.675
_FORECOURT SEP			58.811	1200	387626.933	397667.737		
S11	0.163	5.00	59.912	1500	387634.199	397669.325	1.500	58.412
S13	0.013	5.00	61.036	600	387729.852	397740.451	0.621	60.415
S14	0.039	5.00	61.186	600	387727.031	397710.401	1.098	60.088
RE1	0.007	5.00	61.119	100	387737.967	397694.761	0.750	60.369
S16	0.009	5.00	60.940	600	387749.545	397693.673	0.750	60.190
S17	0.020	5.00	61.271	600	387736.337	397688.102	1.425	59.846
RE2	0.042	5.00	61.034	100	387726.613	397686.163	0.825	60.209
S18	0.022	5.00	60.478	600	387722.745	397644.961	0.825	59.653
RE3	0.022	5.00	60.962	100	387751.723	397663.741	0.750	60.212
S19			60.594	600	387749.732	397642.427	0.750	59.844
S20	0.017	5.00	60.639	1200	387732.203	397644.108	1.300	59.339
RE4		5.00	61.236	100	387737.173	397680.955	0.750	60.486
RE5		5.00	60.781	100	387734.463	397652.096	0.750	60.031
S21			60.871	600	387735.215	397660.103	1.150	59.721
S22	0.018	5.00	61.175	600	387746.690	397668.501	1.350	59.825
S23			60.833	1500	387733.721	397660.239	1.600	59.233
S24	0.307	5.00	61.156	1200	387707.129	397683.544	1.800	59.356
S25	0.056	5.00	60.027	1500	387703.497	397662.985	1.099	58.928
S26	0.144	5.00	59.554	1200	387651.088	397646.283	1.350	58.204
S27	0.042	5.00	59.410	1500	387694.740	397642.185	1.350	58.060
S28			59.878	1800	387696.751	397663.610	1.947	57.931
_BYPASS SEP IN			59.498	1200	387693.167	397663.924	1.578	57.920
_BYPASS SEP OUT			59.430	1200	387692.677	397658.354	1.610	57.820
S29	0.256	5.00	61.001	1350	387643.747	397687.650	2.300	58.701
_ATTENUATION TANK			59.460	1200	387641.514	397663.002	2.640	56.820
S31			59.815	1800	387638.403	397663.318	3.002	56.813
S32			58.505	2400	387610.045	397683.261	3.750	54.755

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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	S1	S3	45.513	0.600	60.004	59.432	0.572	79.6	300	5.43	50.0
2.000	S2	S3	23.536	0.600	59.671	59.507	0.164	143.5	225	5.36	50.0
1.001	S3	S4	17.865	0.600	59.432	59.343	0.089	200.0	300	5.70	50.0
1.002	S4	SW J1	21.204	0.600	59.276	59.108	0.168	126.0	450	5.89	50.0
3.000	S5	SW J1	5.149	0.600	59.600	59.408	0.192	26.8	150	5.04	50.0
1.003	SW J1	SW J2	30.734	0.600	59.108	58.864	0.244	126.0	450	6.18	50.0
4.000	S7	SW J2	4.007	0.600	59.600	59.164	0.436	9.2	150	5.02	50.0
1.004	SW J2	SW J3	23.792	0.600	58.864	58.675	0.189	126.0	450	6.40	50.0
5.000	S9	SW J3	1.740	0.600	59.045	58.900	0.145	12.0	225	5.01	50.0
1.005	SW J3	S11	23.657	0.600	58.675	58.487	0.188	126.0	450	6.61	50.0
1.006	S11	_BYPASS SEP IN	59.215	0.600	58.412	57.920	0.492	120.4	525	7.10	50.0
7.000	S13	S14	30.182	0.600	60.415	60.163	0.252	119.8	150	5.55	50.0
7.001	S14	S17	24.163	0.600	60.088	59.846	0.242	99.8	225	5.86	50.0
8.000	RE1	S16	11.629	0.600	60.369	60.190	0.179	65.0	150	5.16	50.0
8.001	S16	S17	14.236	0.600	60.190	59.921	0.269	52.9	150	5.33	50.0
7.003	S17	S23	28.198	0.600	59.846	59.308	0.538	52.4	225	6.12	50.0
9.000	RE2	S18	41.384	0.600	60.209	59.653	0.556	74.4	225	5.45	50.0
9.001	S18	S20	9.500	0.600	59.653	59.414	0.239	39.7	225	5.53	50.0
10.000	RE3	S19	21.407	0.600	60.212	59.844	0.368	58.2	150	5.27	50.0
10.001	S19	S20	17.606	0.600	59.844	59.489	0.355	49.6	150	5.48	50.0
9.002	S20	S23	16.237	0.600	59.339	59.233	0.106	153.2	300	5.74	50.0
11.000	RE4	S21	20.944	0.600	60.486	59.721	0.765	27.4	150	5.18	50.0
12.000	RE5	S21	8.042	0.600	60.031	59.721	0.310	25.9	150	5.07	50.0
11.001	S21	S23	1.500	0.600	59.721	59.383	0.338	4.4	150	5.32	50.0
13.000	S22	S21	15.378	0.600	59.825	59.721	0.104	147.9	150	5.31	50.0
7.004	S23	S25	30.348	0.600	59.233	59.078	0.155	195.8	300	6.57	50.0
14.000	S24	S25	20.877	0.600	59.356	59.078	0.278	75.1	300	5.19	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	1.764	124.7	11.8	0.951	1.086	0.045	0.0	62	1.121
2.000	1.089	43.3	17.0	0.930	1.086	0.065	0.0	98	1.026
1.001	1.108	78.3	51.6	1.086	0.996	0.197	0.0	178	1.180
1.002	1.810	287.8	56.1	0.913	0.900	0.214	0.0	134	1.416
3.000	1.952	34.5	5.2	1.500	0.900	0.020	0.0	40	1.416
1.003	1.810	287.8	67.3	0.900	0.900	0.257	0.0	147	1.487
4.000	3.343	59.1	7.6	1.500	0.900	0.029	0.0	36	2.303
1.004	1.810	287.8	85.7	0.900	0.900	0.327	0.0	167	1.586
5.000	3.798	151.0	7.9	1.300	0.900	0.030	0.0	35	2.027
1.005	1.810	287.8	106.6	0.900	0.975	0.407	0.0	189	1.680
1.006	2.040	441.7	149.3	0.975	1.053	0.570	0.0	210	1.851
7.000	0.917	16.2	3.4	0.471	0.873	0.013	0.0	47	0.727
7.001	1.308	52.0	13.6	0.873	1.200	0.052	0.0	79	1.108
8.000	1.249	22.1	1.8	0.600	0.600	0.007	0.0	29	0.755
8.001	1.386	24.5	4.2	0.600	1.200	0.016	0.0	42	1.038
7.003	1.810	72.0	23.1	1.200	1.300	0.088	0.0	87	1.616
9.000	1.517	60.3	11.0	0.600	0.600	0.042	0.0	65	1.158
9.001	2.081	82.7	16.8	0.600	1.000	0.064	0.0	68	1.635
10.000	1.321	23.3	5.8	0.600	0.600	0.022	0.0	51	1.096
10.001	1.432	25.3	5.8	0.600	1.000	0.022	0.0	48	1.159
9.002	1.268	89.6	27.0	1.000	1.300	0.103	0.0	113	1.114
11.000	1.931	34.1	0.0	0.600	1.000	0.000	0.0	0	0.000
12.000	1.985	35.1	0.0	0.600	1.000	0.000	0.0	0	0.000
11.001	4.817	85.1	4.7	1.000	1.300	0.018	0.0	24	2.588
13.000	0.824	14.6	4.7	1.200	1.000	0.018	0.0	59	0.738
7.004	1.120	79.2	54.8	1.300	0.649	0.209	0.0	184	1.205
14.000	1.816	128.4	80.4	1.500	0.649	0.307	0.0	173	1.914

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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)
7.005	S25	S28	6.775	0.600	58.928	58.006	0.922	7.3	450	6.58	50.0
15.000	S26	S27	44.096	0.600	58.204	58.060	0.144	306.2	450	5.64	50.0
15.001	S27	S28	21.521	0.600	58.060	58.006	0.054	398.5	450	5.99	50.0
7.006	S28	_BYPASS SEP IN	3.598	0.600	57.931	57.920	0.011	327.1	525	6.63	50.0
1.008	_BYPASS SEP IN	_BYPASS SEP OUT	5.592	0.600	57.920	57.820	0.100	55.9	525	7.13	50.0
1.009	_BYPASS SEP OUT	_ATTENUATION TANK	51.373	0.600	57.820	56.820	1.000	51.4	600	7.38	50.0
16.000	S29	_ATTENUATION TANK	24.749	0.600	58.701	57.154	1.547	16.0	300	5.10	50.0
1.010	_ATTENUATION TANK	S31	3.124	0.600	56.820	56.813	0.007	446.3	600	7.43	50.0
1.011	S31	S32	31.847	0.600	56.813	54.755	2.058	15.5	225	7.58	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)
7.005	7.534	1198.2	149.9	0.649	1.422	0.572	0.0	107	5.226
15.000	1.156	183.9	37.7	0.900	0.900	0.144	0.0	138	0.917
15.001	1.012	160.9	48.7	0.900	1.422	0.186	0.0	169	0.891
7.006	1.233	266.9	198.6	1.422	1.053	0.758	0.0	339	1.345
1.008	2.999	649.3	348.0	1.053	1.085	1.328	0.0	274	3.048
1.009	3.402	962.0	348.0	1.010	2.040	1.328	0.0	249	3.140
16.000	3.949	279.2	67.1	2.000	2.006	0.256	0.0	100	3.271
1.010	1.146	324.0	415.0	2.040	2.402	1.584	0.0	600	1.156
1.011	3.343	132.9	415.0	2.777	3.525	1.584	0.0	225	3.404

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	45.513	79.6	300	Circular	61.255	60.004	0.951	60.818	59.432	1.086
2.000	23.536	143.5	225	Circular	60.826	59.671	0.930	60.818	59.507	1.086
1.001	17.865	200.0	300	Circular	60.818	59.432	1.086	60.639	59.343	0.996
1.002	21.204	126.0	450	Circular	60.639	59.276	0.913	60.458	59.108	0.900
3.000	5.149	26.8	150	Circular	61.250	59.600	1.500	60.458	59.408	0.900
1.003	30.734	126.0	450	Circular	60.458	59.108	0.900	60.214	58.864	0.900
4.000	4.007	9.2	150	Circular	61.250	59.600	1.500	60.214	59.164	0.900
1.004	23.792	126.0	450	Circular	60.214	58.864	0.900	60.025	58.675	0.900
5.000	1.740	12.0	225	Circular	60.570	59.045	1.300	60.025	58.900	0.900
1.005	23.657	126.0	450	Circular	60.025	58.675	0.900	59.912	58.487	0.975
1.006	59.215	120.4	525	Circular	59.912	58.412	0.975	59.498	57.920	1.053
7.000	30.182	119.8	150	Circular	61.036	60.415	0.471	61.186	60.163	0.873
7.001	24.163	99.8	225	Circular	61.186	60.088	0.873	61.271	59.846	1.200
8.000	11.629	65.0	150	Circular	61.119	60.369	0.600	60.940	60.190	0.600

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S1	1200	Manhole	Adoptable	S3	1200	Manhole	Adoptable
2.000	S2	600	Manhole	Adoptable	S3	1200	Manhole	Adoptable
1.001	S3	1200	Manhole	Adoptable	S4	1200	Manhole	Adoptable
1.002	S4	1200	Manhole	Adoptable	SW J1		Junction	
3.000	S5	1200	Manhole	Adoptable	SW J1		Junction	
1.003	SW J1		Junction		SW J2		Junction	
4.000	S7	1200	Manhole	Adoptable	SW J2		Junction	
1.004	SW J2		Junction		SW J3		Junction	
5.000	S9	1200	Manhole	Adoptable	SW J3		Junction	
1.005	SW J3		Junction		S11	1500	Manhole	Adoptable
1.006	S11	1500	Manhole	Adoptable	_BYPASS SEP IN	1200	Manhole	Adoptable
7.000	S13	600	Manhole	Adoptable	S14	600	Manhole	Adoptable
7.001	S14	600	Manhole	Adoptable	S17	600	Manhole	Adoptable
8.000	RE1	100	Manhole	Adoptable	S16	600	Manhole	Adoptable

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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)
8.001	14.236	52.9	150	Circular	60.940	60.190	0.600	61.271	59.921	1.200
7.003	28.198	52.4	225	Circular	61.271	59.846	1.200	60.833	59.308	1.300
9.000	41.384	74.4	225	Circular	61.034	60.209	0.600	60.478	59.653	0.600
9.001	9.500	39.7	225	Circular	60.478	59.653	0.600	60.639	59.414	1.000
10.000	21.407	58.2	150	Circular	60.962	60.212	0.600	60.594	59.844	0.600
10.001	17.606	49.6	150	Circular	60.594	59.844	0.600	60.639	59.489	1.000
9.002	16.237	153.2	300	Circular	60.639	59.339	1.000	60.833	59.233	1.300
11.000	20.944	27.4	150	Circular	61.236	60.486	0.600	60.871	59.721	1.000
12.000	8.042	25.9	150	Circular	60.781	60.031	0.600	60.871	59.721	1.000
11.001	1.500	4.4	150	Circular	60.871	59.721	1.000	60.833	59.383	1.300
13.000	15.378	147.9	150	Circular	61.175	59.825	1.200	60.871	59.721	1.000
7.004	30.348	195.8	300	Circular	60.833	59.233	1.300	60.027	59.078	0.649
14.000	20.877	75.1	300	Circular	61.156	59.356	1.500	60.027	59.078	0.649
7.005	6.775	7.3	450	Circular	60.027	58.928	0.649	59.878	58.006	1.422
15.000	44.096	306.2	450	Circular	59.554	58.204	0.900	59.410	58.060	0.900
15.001	21.521	398.5	450	Circular	59.410	58.060	0.900	59.878	58.006	1.422
7.006	3.598	327.1	525	Circular	59.878	57.931	1.422	59.498	57.920	1.053
1.008	5.592	55.9	525	Circular	59.498	57.920	1.053	59.430	57.820	1.085
1.009	51.373	51.4	600	Circular	59.430	57.820	1.010	59.460	56.820	2.040
16.000	24.749	16.0	300	Circular	61.001	58.701	2.000	59.460	57.154	2.006
1.010	3.124	446.3	600	Circular	59.460	56.820	2.040	59.815	56.813	2.402
1.011	31.847	15.5	225	Circular	59.815	56.813	2.777	58.505	54.755	3.525

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
8.001	S16	600	Manhole	Adoptable	S17	600	Manhole	Adoptable
7.003	S17	600	Manhole	Adoptable	S23	1500	Manhole	Adoptable
9.000	RE2	100	Manhole	Adoptable	S18	600	Manhole	Adoptable
9.001	S18	600	Manhole	Adoptable	S20	1200	Manhole	Adoptable
10.000	RE3	100	Manhole	Adoptable	S19	600	Manhole	Adoptable
10.001	S19	600	Manhole	Adoptable	S20	1200	Manhole	Adoptable
9.002	S20	1200	Manhole	Adoptable	S23	1500	Manhole	Adoptable
11.000	RE4	100	Manhole	Adoptable	S21	600	Manhole	Adoptable
12.000	RE5	100	Manhole	Adoptable	S21	600	Manhole	Adoptable
11.001	S21	600	Manhole	Adoptable	S23	1500	Manhole	Adoptable
13.000	S22	600	Manhole	Adoptable	S21	600	Manhole	Adoptable
7.004	S23	1500	Manhole	Adoptable	S25	1500	Manhole	Adoptable
14.000	S24	1200	Manhole	Adoptable	S25	1500	Manhole	Adoptable
7.005	S25	1500	Manhole	Adoptable	S28	1800	Manhole	Adoptable
15.000	S26	1200	Manhole	Adoptable	S27	1500	Manhole	Adoptable
15.001	S27	1500	Manhole	Adoptable	S28	1800	Manhole	Adoptable
7.006	S28	1800	Manhole	Adoptable	_BYPASS SEP IN	1200	Manhole	Adoptable
1.008	_BYPASS SEP IN	1200	Manhole	Adoptable	_BYPASS SEP OUT	1200	Manhole	Adoptable
1.009	_BYPASS SEP OUT	1200	Manhole	Adoptable	_ATTENUATION TANK	1200	Manhole	Adoptable
16.000	S29	1350	Manhole	Adoptable	_ATTENUATION TANK	1200	Manhole	Adoptable
1.010	_ATTENUATION TANK	1200	Manhole	Adoptable	S31	1800	Manhole	Adoptable
1.011	S31	1800	Manhole	Adoptable	S32	2400	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S1	387697.279	397789.585	61.255	1.251	1200				
						0	1.000	60.004	300

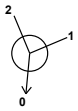
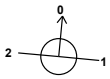
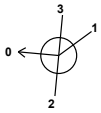
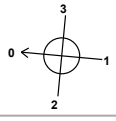
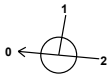
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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S2	387671.740	397796.919	60.826	1.155	600		0	2.000	59.671	225
S3	387652.119	397783.922	60.818	1.386	1200		1	2.000	59.507	225
							2	1.000	59.432	300
							0	1.001	59.432	300
S4	387643.495	397768.276	60.639	1.363	1200		1	1.001	59.343	300
							0	1.002	59.276	450
S5	387645.377	397748.316	61.250	1.650	1200		0	3.000	59.600	150
SW J1	387641.513	397747.165	60.458	1.350			1	3.000	59.408	150
							2	1.002	59.108	450
							0	1.003	59.108	450
S7	387642.521	397718.656	61.250	1.650	1200		0	4.000	59.600	150
SW J2	387638.640	397716.566	60.214	1.350			1	4.000	59.164	150
							2	1.003	58.864	450
							0	1.004	58.864	450
S9	387637.802	397693.928	60.570	1.525	1200		0	5.000	59.045	225
SW J3	387636.415	397692.878	60.025	1.350			1	5.000	58.900	225
							2	1.004	58.675	450
							0	1.005	58.675	450
_FORECOURT SEP	387626.933	397667.737	58.811		1200					
S11	387634.199	397669.325	59.912	1.500	1500		1	1.005	58.487	450
							0	1.006	58.412	525
S13	387729.852	397740.451	61.036	0.621	600		0	7.000	60.415	150
S14	387727.031	397710.401	61.186	1.098	600		1	7.000	60.163	150
							0	7.001	60.088	225
RE1	387737.967	397694.761	61.119	0.750	100		0	8.000	60.369	150

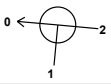
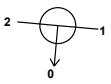
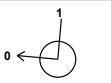
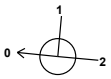
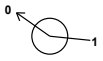
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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S16	387749.545	397693.673	60.940	0.750	600	1	8.000	60.190	150
									
						0	8.001	60.190	150
S17	387736.337	397688.102	61.271	1.425	600	1	8.001	59.921	150
									
						2	7.001	59.846	225
						0	7.003	59.846	225
RE2	387726.613	397686.163	61.034	0.825	100				
						0	9.000	60.209	225
S18	387722.745	397644.961	60.478	0.825	600	1	9.000	59.653	225
									
						0	9.001	59.653	225
RE3	387751.723	397663.741	60.962	0.750	100				
						0	10.000	60.212	150
S19	387749.732	397642.427	60.594	0.750	600	1	10.000	59.844	150
									
						0	10.001	59.844	150
S20	387732.203	397644.108	60.639	1.300	1200	1	10.001	59.489	150
									
						2	9.001	59.414	225
						0	9.002	59.339	300
RE4	387737.173	397680.955	61.236	0.750	100				
						0	11.000	60.486	150
RE5	387734.463	397652.096	60.781	0.750	100				
						0	12.000	60.031	150
S21	387735.215	397660.103	60.871	1.150	600	1	13.000	59.721	150
									
						2	12.000	59.721	150
						3	11.000	59.721	150
						0	11.001	59.721	150
S22	387746.690	397668.501	61.175	1.350	600				
						0	13.000	59.825	150
S23	387733.721	397660.239	60.833	1.600	1500	1	11.001	59.383	150
									
						2	9.002	59.233	300
						3	7.003	59.308	225
						0	7.004	59.233	300
S24	387707.129	397683.544	61.156	1.800	1200				
						0	14.000	59.356	300
S25	387703.497	397662.985	60.027	1.099	1500	1	14.000	59.078	300
									
						2	7.004	59.078	300
						0	7.005	58.928	450

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S26	387651.088	397646.283	59.554	1.350	1200				
						0	15.000	58.204	450
S27	387694.740	397642.185	59.410	1.350	1500		1	15.000	58.060	450
						0	15.001	58.060	450
S28	387696.751	397663.610	59.878	1.947	1800		1	15.001	58.006	450
							2	7.005	58.006	450
						0	7.006	57.931	525
_BYPASS SEP IN	387693.167	397663.924	59.498	1.578	1200		1	7.006	57.920	525
							2	1.006	57.920	525
						0	1.008	57.920	525
_BYPASS SEP OUT	387692.677	397658.354	59.430	1.610	1200		1	1.008	57.820	525
						0	1.009	57.820	600
S29	387643.747	397687.650	61.001	2.300	1350				
						0	16.000	58.701	300
_ATTENUATION TANK	387641.514	397663.002	59.460	2.640	1200		1	16.000	57.154	300
							2	1.009	56.820	600
						0	1.010	56.820	600
S31	387638.403	397663.318	59.815	3.002	1800		1	1.010	56.813	600
						0	1.011	56.813	225
S32	387610.045	397683.261	58.505	3.750	2400		1	1.011	54.755	225

Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	x	2 year (l/s)	18.3
Rainfall Events	Singular	Drain Down Time (mins)	240	30 year (l/s)	39.6
Summer CV	1.000	Additional Storage (m³/ha)	0.0	100 year (l/s)	50.3
Winter CV	1.000	Starting Level (m)		Check Discharge Volume	✓
Analysis Speed	Detailed	Check Discharge Rate(s)	✓	100 year 360 minute (m³)	215

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 %)
2	0	0	0	100	45	0	0
30	0	0	0				

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Pre-development Discharge Rate

Site Makeup	Greenfield	Region	1	QMed	18.3
Greenfield Method	FEH	QBar/QMed conversion factor	1.111	QBar	20.3
Positively Drained Area (ha)	2.166	Growth Factor 2 year	0.90	Q 2 year (l/s)	18.3
SAAR (mm)	896	Growth Factor 30 year	1.95	Q 30 year (l/s)	39.6
Host	1	Growth Factor 100 year	2.48	Q 100 year (l/s)	50.3
BFIHost	0.312	Betterment (%)	0		

Pre-development Discharge Volume

Site Makeup	Greenfield	SPR	0.47	Storm Duration (mins)	360
Greenfield Method	FSR/FEH	CWI		Betterment (%)	0
Positively Drained Area (ha)	2.166	Return Period (years)	100	PR	
Soil Index	4	Climate Change (%)	0	Runoff Volume (m³)	

Node S31 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	56.813	Product Number	CTL-SHE-0161-1400-1600-1400
Design Depth (m)	1.600	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	14.0	Min Node Diameter (mm)	1500

Node ATTENUATION TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	56.820
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	480

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	863.0	863.0	1.600	863.0	1029.6	1.601	0.0	1029.6

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Results for 2 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	60.053	0.049	7.5	0.0555	0.0000	OK
15 minute summer	S2	10	59.749	0.078	10.8	0.0221	0.0000	OK
15 minute summer	S3	11	59.573	0.141	32.5	0.1599	0.0000	OK
15 minute summer	S4	11	59.383	0.107	34.8	0.1213	0.0000	OK
15 minute summer	S5	10	59.632	0.032	3.3	0.0364	0.0000	OK
15 minute summer	SW J1	11	59.222	0.114	41.8	0.0000	0.0000	OK
15 minute summer	S7	10	59.630	0.030	4.8	0.0339	0.0000	OK
15 minute summer	SW J2	11	58.993	0.129	52.9	0.0000	0.0000	OK
15 minute summer	S9	10	59.075	0.030	5.0	0.0339	0.0000	OK
15 minute summer	SW J3	11	58.824	0.149	65.6	0.0000	0.0000	OK
	_FORECOURT SEP							
15 minute summer	S11	11	58.571	0.159	91.4	0.2801	0.0000	OK
15 minute summer	S13	11	60.452	0.037	2.2	0.0105	0.0000	OK
15 minute summer	S14	10	60.150	0.062	8.6	0.0176	0.0000	OK
15 minute summer	RE1	10	60.393	0.024	1.2	0.0002	0.0000	OK
15 minute summer	S16	10	60.224	0.034	2.7	0.0096	0.0000	OK
15 minute summer	S17	11	59.916	0.070	14.4	0.0197	0.0000	OK
15 minute summer	RE2	10	60.260	0.051	7.0	0.0004	0.0000	OK
15 minute summer	S18	10	59.710	0.057	10.6	0.0162	0.0000	OK
15 minute summer	RE3	10	60.253	0.041	3.7	0.0003	0.0000	OK
15 minute summer	S19	10	59.883	0.039	3.7	0.0111	0.0000	OK
15 minute summer	S20	11	59.426	0.087	16.8	0.0985	0.0000	OK
15 minute summer	RE4	1	60.486	0.000	0.0	0.0000	0.0000	OK
15 minute summer	RE5	1	60.031	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S21	10	59.742	0.021	3.0	0.0060	0.0000	OK
15 minute summer	S22	10	59.876	0.051	3.0	0.0143	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	S1	1.000	S3	7.4	0.390	0.059	0.9123	
15 minute summer	S2	2.000	S3	10.6	0.890	0.245	0.2812	
15 minute summer	S3	1.001	S4	32.1	1.026	0.409	0.5583	
15 minute summer	S4	1.002	SW J1	34.9	1.155	0.121	0.6402	
15 minute summer	S5	3.000	SW J1	3.3	1.210	0.095	0.0140	
15 minute summer	SW J1	1.003	SW J2	41.7	1.212	0.145	1.0589	
15 minute summer	S7	4.000	SW J2	4.8	1.966	0.081	0.0097	
15 minute summer	SW J2	1.004	SW J3	52.9	1.270	0.184	0.9918	
15 minute summer	S9	5.000	SW J3	5.0	1.674	0.033	0.0052	
15 minute summer	SW J3	1.005	S11	65.5	1.466	0.228	1.0578	
15 minute summer	S11	1.006	_BYPASS SEP IN	91.0	1.086	0.206	4.9988	
15 minute summer	S13	7.000	S14	2.1	0.636	0.132	0.1015	
15 minute summer	S14	7.001	S17	8.5	0.885	0.164	0.2325	
15 minute summer	RE1	8.000	S16	1.2	0.502	0.054	0.0276	
15 minute summer	S16	8.001	S17	2.6	0.893	0.107	0.0417	
15 minute summer	S17	7.003	S23	14.3	1.397	0.199	0.2895	
15 minute summer	RE2	9.000	S18	6.9	0.942	0.115	0.3044	
15 minute summer	S18	9.001	S20	10.4	1.377	0.126	0.0722	
15 minute summer	RE3	10.000	S19	3.7	0.970	0.157	0.0811	
15 minute summer	S19	10.001	S20	3.6	1.004	0.142	0.0631	
15 minute summer	S20	9.002	S23	16.8	0.696	0.187	0.4066	
15 minute summer	RE4	11.000	S21	0.0	0.000	0.000	0.0161	
15 minute summer	RE5	12.000	S21	0.0	0.000	0.000	0.0062	
15 minute summer	S21	11.001	S23	3.0	2.093	0.035	0.0021	
15 minute summer	S22	13.000	S21	3.0	0.919	0.205	0.0520	

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Results for 2 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S23	11	59.376	0.143	34.1	0.2528	0.0000	OK
15 minute summer	S24	10	59.496	0.140	51.1	0.1587	0.0000	OK
15 minute summer	S25	11	59.011	0.083	92.3	0.1472	0.0000	OK
15 minute summer	S26	10	58.311	0.107	24.0	0.1209	0.0000	OK
15 minute summer	S27	11	58.242	0.182	30.5	0.3222	0.0000	OK
15 minute summer	S28	11	58.233	0.302	121.1	0.7680	0.0000	OK
15 minute summer	_BYPASS SEP IN	11	58.194	0.274	211.3	0.3099	0.0000	OK
15 minute summer	_BYPASS SEP OUT	11	58.063	0.243	210.1	0.2751	0.0000	OK
15 minute summer	S29	10	58.783	0.082	42.7	0.1172	0.0000	OK
480 minute summer	_ATTENUATION TANK	320	57.129	0.309	55.1	253.3746	0.0000	OK
480 minute summer	S31	320	57.128	0.315	13.2	0.8027	0.0000	SURCHARGED
480 minute summer	S32	320	54.803	0.048	13.2	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	S23	7.004	S25	34.1	1.064	0.431	0.9727	
15 minute summer	S24	14.000	S25	50.6	1.648	0.394	0.6413	
15 minute summer	S25	7.005	S28	92.3	2.826	0.077	0.3394	
15 minute summer	S26	15.000	S27	23.5	0.686	0.128	1.9556	
15 minute summer	S27	15.001	S28	30.0	0.560	0.186	1.5089	
15 minute summer	S28	7.006	_BYPASS SEP IN	120.3	0.993	0.451	0.4360	
15 minute summer	_BYPASS SEP IN	1.008	_BYPASS SEP OUT	210.1	2.061	0.324	0.5921	
15 minute summer	_BYPASS SEP OUT	1.009	_ATTENUATION TANK	212.9	3.851	0.221	3.0968	
15 minute summer	S29	16.000	_ATTENUATION TANK	42.4	2.808	0.152	0.3739	
480 minute summer	_ATTENUATION TANK	1.010	S31	13.2	0.137	0.041	0.4625	
480 minute summer	S31	1.011	S32	13.2	2.127	0.099	0.1979	331.9

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	60.082	0.078	19.0	0.0882	0.0000	OK
15 minute summer	S2	10	59.802	0.131	27.4	0.0371	0.0000	OK
15 minute summer	S3	11	59.707	0.275	82.7	0.3107	0.0000	OK
15 minute summer	S4	11	59.454	0.178	87.7	0.2012	0.0000	OK
15 minute summer	S5	10	59.653	0.053	8.4	0.0597	0.0000	OK
15 minute summer	SW J1	11	59.295	0.187	105.3	0.0000	0.0000	OK
15 minute summer	S7	10	59.649	0.049	12.2	0.0555	0.0000	OK
15 minute summer	SW J2	11	59.083	0.219	134.0	0.0000	0.0000	OK
15 minute summer	S9	10	59.094	0.049	12.7	0.0556	0.0000	OK
15 minute summer	SW J3	11	58.932	0.257	166.8	0.0000	0.0000	OK
	_FORECOURT SEP							
15 minute summer	S11	11	58.676	0.264	232.8	0.4673	0.0000	OK
15 minute summer	S13	10	60.475	0.060	5.5	0.0171	0.0000	OK
15 minute summer	S14	10	60.193	0.105	21.7	0.0296	0.0000	OK
15 minute summer	RE1	10	60.406	0.037	3.0	0.0003	0.0000	OK
15 minute summer	S16	10	60.246	0.056	6.8	0.0158	0.0000	OK
15 minute summer	S17	10	59.958	0.112	36.6	0.0318	0.0000	OK
15 minute summer	RE2	10	60.292	0.083	17.7	0.0007	0.0000	OK
15 minute summer	S18	10	59.749	0.096	26.8	0.0271	0.0000	OK
15 minute summer	RE3	10	60.280	0.068	9.3	0.0005	0.0000	OK
15 minute summer	S19	10	59.909	0.065	9.3	0.0183	0.0000	OK
15 minute summer	S20	11	59.538	0.199	43.1	0.2245	0.0000	OK
15 minute summer	RE4	1	60.486	0.000	0.0	0.0000	0.0000	OK
15 minute summer	RE5	1	60.031	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S21	10	59.751	0.030	7.5	0.0085	0.0000	OK
15 minute summer	S22	10	59.910	0.085	7.6	0.0239	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	S1	1.000	S3	18.7	0.466	0.150	1.8632	
15 minute summer	S2	2.000	S3	27.3	0.987	0.631	0.7105	
15 minute summer	S3	1.001	S4	80.9	1.297	1.033	1.1033	
15 minute summer	S4	1.002	SW J1	87.9	1.461	0.305	1.2763	
15 minute summer	S5	3.000	SW J1	8.4	1.560	0.242	0.0276	
15 minute summer	SW J1	1.003	SW J2	105.7	1.524	0.367	2.1326	
15 minute summer	S7	4.000	SW J2	12.2	2.532	0.206	0.0193	
15 minute summer	SW J2	1.004	SW J3	134.5	1.582	0.467	2.0227	
15 minute summer	S9	5.000	SW J3	12.7	2.143	0.084	0.0103	
15 minute summer	SW J3	1.005	S11	167.2	1.859	0.581	2.1275	
15 minute summer	S11	1.006	_BYPASS SEP IN	232.9	1.359	0.527	9.6197	
15 minute summer	S13	7.000	S14	5.3	0.818	0.329	0.1971	
15 minute summer	S14	7.001	S17	21.6	1.139	0.414	0.4575	
15 minute summer	RE1	8.000	S16	3.0	0.642	0.135	0.0544	
15 minute summer	S16	8.001	S17	6.7	1.153	0.273	0.0825	
15 minute summer	S17	7.003	S23	36.3	1.518	0.504	0.8219	
15 minute summer	RE2	9.000	S18	17.5	1.198	0.290	0.6059	
15 minute summer	S18	9.001	S20	26.7	1.694	0.323	0.1800	
15 minute summer	RE3	10.000	S19	9.3	1.229	0.396	0.1611	
15 minute summer	S19	10.001	S20	9.1	1.287	0.361	0.1249	
15 minute summer	S20	9.002	S23	41.8	0.794	0.466	0.9633	
15 minute summer	RE4	11.000	S21	0.0	0.000	0.000	0.0262	
15 minute summer	RE5	12.000	S21	0.0	0.000	0.000	0.0101	
15 minute summer	S21	11.001	S23	7.5	2.396	0.088	0.0144	
15 minute summer	S22	13.000	S21	7.5	1.220	0.518	0.0979	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S23	11	59.518	0.285	85.3	0.5043	0.0000	OK
15 minute summer	S24	11	59.675	0.319	129.5	0.3610	0.0000	SURCHARGED
15 minute summer	S25	11	59.084	0.156	231.3	0.2752	0.0000	OK
15 minute summer	S26	11	58.539	0.335	60.7	0.3791	0.0000	OK
15 minute summer	S27	11	58.528	0.468	72.2	0.8269	0.0000	SURCHARGED
15 minute summer	S28	11	58.513	0.582	301.4	1.4803	0.0000	SURCHARGED
15 minute summer	_BYPASS SEP IN	11	58.449	0.529	534.3	0.5987	0.0000	SURCHARGED
15 minute summer	_BYPASS SEP OUT	11	58.207	0.387	531.8	0.4380	0.0000	OK
15 minute summer	S29	10	58.839	0.138	108.0	0.1976	0.0000	OK
600 minute summer	_ATTENUATION TANK	450	57.510	0.690	89.5	566.5534	0.0000	SURCHARGED
600 minute summer	S31	450	57.510	0.697	14.2	1.7739	0.0000	SURCHARGED
60 minute winter	S32	93	54.804	0.049	14.0	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	S23	7.004	S25	83.8	1.315	1.058	1.9136	
15 minute summer	S24	14.000	S25	126.0	1.954	0.981	1.4280	
15 minute summer	S25	7.005	S28	231.4	2.956	0.193	0.7016	
15 minute summer	S26	15.000	S27	57.0	0.690	0.310	6.2854	
15 minute summer	S27	15.001	S28	79.2	0.594	0.492	3.4099	
15 minute summer	S28	7.006	_BYPASS SEP IN	301.4	1.395	1.129	0.7772	
15 minute summer	_BYPASS SEP IN	1.008	_BYPASS SEP OUT	531.8	2.741	0.819	1.0814	
15 minute summer	_BYPASS SEP OUT	1.009	_ATTENUATION TANK	535.7	4.381	0.557	6.7025	
15 minute summer	S29	16.000	_ATTENUATION TANK	107.4	3.562	0.385	0.7462	
600 minute summer	_ATTENUATION TANK	1.010	S31	14.2	0.136	0.044	0.8800	
600 minute summer	S31	1.011	S32	14.0	2.161	0.105	0.2057	856.9

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Results for 100 year +45% CC 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	S1	12	60.365	0.361	34.8	0.4087	0.0000	SURCHARGED
15 minute summer	S2	12	60.545	0.874	50.3	0.2474	0.0000	FLOOD RISK
15 minute summer	S3	12	60.333	0.901	150.5	1.0186	0.0000	SURCHARGED
15 minute summer	S4	12	59.996	0.720	159.3	0.8145	0.0000	SURCHARGED
15 minute summer	S5	12	59.997	0.397	15.5	0.4494	0.0000	SURCHARGED
15 minute summer	SW J1	12	59.947	0.839	183.1	0.0000	0.0000	SURCHARGED
15 minute summer	S7	11	59.936	0.336	22.5	0.3796	0.0000	SURCHARGED
15 minute summer	SW J2	11	59.863	0.999	219.4	0.0000	0.0000	SURCHARGED
15 minute summer	S9	11	59.776	0.731	23.2	0.8266	0.0000	SURCHARGED
15 minute summer	SW J3	11	59.768	1.093	272.2	0.0000	0.0000	FLOOD RISK
15 minute summer	_FORECOURT SEP S11	11	59.586	1.174	378.5	2.0745	0.0000	SURCHARGED
15 minute summer	S13	12	60.643	0.228	10.1	0.0646	0.0000	SURCHARGED
15 minute summer	S14	12	60.564	0.476	40.4	0.1347	0.0000	SURCHARGED
15 minute summer	RE1	12	60.510	0.141	5.4	0.0011	0.0000	OK
15 minute summer	S16	12	60.503	0.313	12.4	0.0885	0.0000	SURCHARGED
15 minute summer	S17	12	60.448	0.602	63.0	0.1703	0.0000	SURCHARGED
15 minute summer	RE2	12	60.338	0.129	32.5	0.0010	0.0000	OK
15 minute summer	S18	12	60.242	0.589	49.3	0.1666	0.0000	FLOOD RISK
15 minute summer	RE3	12	60.426	0.214	17.0	0.0017	0.0000	SURCHARGED
15 minute summer	S19	12	60.279	0.435	17.2	0.1232	0.0000	SURCHARGED
15 minute summer	S20	12	60.152	0.813	69.7	0.9191	0.0000	SURCHARGED
15 minute summer	RE4	1	60.486	0.000	0.0	0.0000	0.0000	OK
15 minute summer	RE5	12	60.090	0.059	0.4	0.0005	0.0000	OK
15 minute summer	S21	12	60.091	0.370	13.6	0.1048	0.0000	SURCHARGED
15 minute summer	S22	12	60.170	0.345	13.9	0.0978	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 summer	S1	1.000	S3	47.3	0.776	0.380	3.2050	
15 minute summer	S2	2.000	S3	48.6	1.223	1.123	0.9361	
15 minute summer	S3	1.001	S4	146.1	2.074	1.865	1.2580	
15 minute summer	S4	1.002	SW J1	160.1	1.531	0.556	3.3596	
15 minute summer	S5	3.000	SW J1	14.9	1.789	0.433	0.0906	
15 minute summer	SW J1	1.003	SW J2	191.0	1.562	0.664	4.8696	
15 minute summer	S7	4.000	SW J2	21.2	2.905	0.358	0.0705	
15 minute summer	SW J2	1.004	SW J3	226.9	1.610	0.789	3.7697	
15 minute summer	S9	5.000	SW J3	21.7	2.327	0.144	0.0692	
15 minute summer	SW J3	1.005	S11	279.0	1.883	0.969	3.7483	
15 minute summer	S11	1.006	_BYPASS SEP IN	378.4	1.752	0.857	12.7924	
15 minute summer	S13	7.000	S14	10.7	0.918	0.658	0.5313	
15 minute summer	S14	7.001	S17	36.6	1.182	0.704	0.9610	
15 minute summer	RE1	8.000	S16	5.4	0.747	0.244	0.2024	
15 minute summer	S16	8.001	S17	13.2	1.220	0.537	0.2506	
15 minute summer	S17	7.003	S23	55.3	1.489	0.768	1.1215	
15 minute summer	RE2	9.000	S18	32.3	1.276	0.535	1.3110	
15 minute summer	S18	9.001	S20	44.8	1.613	0.541	0.3778	
15 minute summer	RE3	10.000	S19	17.2	1.407	0.735	0.3769	
15 minute summer	S19	10.001	S20	16.2	1.338	0.641	0.3100	
15 minute summer	S20	9.002	S23	66.9	0.950	0.746	1.1434	
15 minute summer	RE4	11.000	S21	0.0	0.000	0.000	0.1844	
15 minute summer	RE5	12.000	S21	0.7	0.050	0.020	0.0967	
15 minute summer	S21	11.001	S23	15.3	2.229	0.179	0.0264	
15 minute summer	S22	13.000	S21	13.6	1.298	0.935	0.2707	

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Results for 100 year +45% CC 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	S23	12	60.068	0.835	134.4	1.4751	0.0000	SURCHARGED
15 minute summer	S24	11	60.749	1.393	237.6	1.5758	0.0000	SURCHARGED
15 minute summer	S25	11	59.581	0.653	389.7	1.1538	0.0000	SURCHARGED
15 minute summer	S26	11	59.445	1.241	111.4	1.4034	0.0000	FLOOD RISK
15 minute summer	S27	11	59.385	1.325	142.8	2.3417	0.0000	FLOOD RISK
15 minute summer	S28	11	59.331	1.400	520.9	3.5623	0.0000	SURCHARGED
15 minute summer	_BYPASS SEP IN	11	59.143	1.223	892.2	1.3837	0.0000	SURCHARGED
15 minute summer	_BYPASS SEP OUT	11	58.520	0.700	890.7	0.7914	0.0000	SURCHARGED
15 minute summer	S29	10	58.909	0.208	198.1	0.2974	0.0000	OK
1440 minute summer	_ATTENUATION TANK	1080	58.361	1.541	92.9	1264.9570	0.0000	SURCHARGED
1440 minute summer	S31	1080	58.361	1.548	14.1	3.9389	0.0000	SURCHARGED
15 minute summer	S32	127	54.804	0.049	14.0	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	S23	7.004	S25	140.0	1.988	1.768	2.1371	
15 minute summer	S24	14.000	S25	229.0	3.252	1.784	1.4701	
15 minute summer	S25	7.005	S28	386.5	3.083	0.323	1.0735	
15 minute summer	S26	15.000	S27	110.3	0.696	0.600	6.9867	
15 minute summer	S27	15.001	S28	134.4	0.848	0.835	3.4099	
15 minute summer	S28	7.006	_BYPASS SEP IN	517.2	2.394	1.938	0.7773	
15 minute summer	_BYPASS SEP IN	1.008	_BYPASS SEP OUT	890.7	4.123	1.372	1.2081	
15 minute summer	_BYPASS SEP OUT	1.009	_ATTENUATION TANK	898.5	4.351	0.934	11.7533	
15 minute summer	S29	16.000	_ATTENUATION TANK	197.0	4.044	0.706	1.2048	
1440 minute summer	_ATTENUATION TANK	1.010	S31	14.1	0.135	0.044	0.8800	
1440 minute summer	S31	1.011	S32	14.0	2.161	0.105	0.2057	1076.6

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