

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	1	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	0.900
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Adoptable Manhole Type

Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)
374	1200	749	1500
499	1350	900	1800

>900 Link+900 mm

Max Depth (m)	Diameter (mm)	Max Depth (m)	Diameter (mm)
1.500	1050	99.999	1200

Pipe Link Type

Template	Freeform Carrier	Auto Increment (mm)	75
Shape	Circular	Follow Ground	x
Barrels	1		

Available Diameters (mm)

100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
RE2	0.020	5.00	129.794	1	431497.424	306124.877	0.944	128.850
SW12a	0.029	5.00	129.313	600	431501.169	306083.871	1.313	128.000
SW12b			128.903	600	431512.111	306079.259	1.303	127.600
SW12c			127.912	600	431536.885	306068.452	1.302	126.610
25d	0.062	5.00	126.597	600	431610.467	306036.811	1.077	125.520
25e			126.597	600	431601.396	306049.380	1.177	125.420
24d	0.010	5.00	128.950	600	431616.873	306084.401	2.199	126.751
Rodding Eye 6	0.003	5.00	128.533	150	431632.626	306073.619	1.533	127.000
24i	0.004	5.00	128.381	600	431632.014	306068.565	1.581	126.800
24			128.013	1200	431622.954	306064.256	1.720	126.293
25a		5.00	126.780	600	431583.448	306066.189	1.094	125.686
25b	0.005	5.00	126.850	600	431591.460	306055.255	1.300	125.550
25	0.039	5.00	126.775	1200	431591.821	306047.763	1.404	125.371
27	0.015	5.00	126.860	600	431584.829	306042.689	1.210	125.650
26	0.014	5.00	126.850	600	431600.548	306020.915	1.200	125.650
28			126.750	600	431594.442	306029.350	1.251	125.499
Tank 1			126.801		431607.266	306026.969	1.517	125.284
28a			126.838	1200	431608.255	306025.585	1.565	125.273
29	0.020	5.00	126.861	600	431616.317	306029.079	1.039	125.822
30	0.013	5.00	126.877	600	431608.064	306023.244	1.699	125.178

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
31	0.026	5.00	126.875	600	431625.768	306014.523	1.389	125.486
32			126.850	600	431603.562	305998.325	1.526	125.324
33	0.014	5.00	126.825	1200	431592.318	306011.192	1.764	125.061
34	0.027	5.00	126.775	1200	431584.351	306005.321	1.754	125.021
14	0.036	5.00	126.850	600	431560.026	306044.177	1.675	125.175
15			126.875	600	431566.011	306036.007	1.764	125.111
15a			126.825	600	431566.107	306031.505	1.741	125.084
35	0.014	5.00	126.800	1200	431566.589	306029.924	1.903	124.897
Rodding Eye 1	0.011	5.00	131.000	150	431547.878	306155.192	1.250	129.750
8a	0.004	5.00	131.137	600	431560.567	306153.931	1.517	129.620
8b	0.020	5.00	131.014	600	431562.616	306150.913	1.444	129.570
8c	0.036	5.00	129.900	600	431560.143	306129.308	1.160	128.740
JCT1			129.909		431546.731	306121.627	1.324	128.585
8d	0.034	5.00	129.930	600	431543.641	306121.052	1.455	128.475
8e			129.959	600	431532.934	306126.240	1.559	128.400
8f			129.947	600	431529.032	306126.253	1.597	128.350
5	0.024	5.00	129.970	1200	431566.394	306130.156	1.670	128.300
6	0.023	5.00	129.650	1200	431543.157	306116.444	1.470	128.180
7			129.965	1200	431532.269	306123.865	1.865	128.100
8			129.965	1200	431529.069	306123.827	1.915	128.050
10	0.024	5.00	128.730	600	431535.412	306078.699	1.515	127.215
9			128.469	1200	431529.592	306076.171	1.469	127.000
12			127.792	1200	431535.849	306060.099	1.417	126.375
13			126.990	600	431533.786	306041.939	2.086	124.904
46	0.044	5.00	126.100	600	431497.261	306026.340	0.928	125.172
47			126.080	600	431497.547	306017.473	0.947	125.133
48	0.014	5.00	126.260	600	431515.208	306018.380	1.212	125.048
41	0.032	5.00	126.480	600	431560.582	306027.437	1.120	125.360
42	0.007	5.00	126.310	600	431558.660	306019.284	1.007	125.303
43			126.225	600	431553.582	306015.311	0.964	125.261
44			126.185	600	431549.570	306014.503	1.085	125.100
45	0.012	5.00	126.350	600	431548.363	306019.934	1.350	125.000
36	0.020	5.00	126.010	600	431546.007	306007.240	0.810	125.200
SWD1		5.00	130.350	1200	431564.194	306140.714	3.035	127.315
39		5.00	126.050	600	431526.372	306007.980	0.967	125.083
40a	0.015	5.00	126.075	600	431533.811	306008.363	1.070	125.005
49			126.325	600	431533.245	306019.339	1.385	124.940
51	0.035	5.00	126.405	600	431514.197	306025.225	1.378	125.027
50	0.025	5.00	126.550	600	431547.993	306026.938	1.550	125.000
52			126.500	600	431534.581	306026.279	1.600	124.900
Tank 2			126.485		431519.997	306027.567	1.847	124.638
53			126.510	1350	431511.980	306027.168	1.889	124.621
CW32			125.800	600	431495.856	306014.623	1.307	124.493
SWD2			130.000	600	431564.329	306131.905	2.798	127.202
SWD3			130.000	1200	431530.530	306119.463	3.232	126.768
SWD5			126.525	600	431518.729	306036.852	0.897	125.628
SW Headwall			126.200		431489.191	306019.896	1.000	125.200
SWD4			126.880	1200	431532.546	306038.758	1.084	125.796
SWD6			126.525	1200	431517.642	306031.578	0.962	125.563
CW Outfall			125.400		431486.392	306011.984	0.967	124.433

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
RE3	0.015	5.00	130.072	1	431633.103	306124.299	1.472	128.600
SW24e	0.021	5.00	129.286	600	431615.818	306105.649	1.686	127.600
RE4	0.021	5.00	129.732	1	431604.728	306114.839	1.532	128.200
SW24a	0.030	5.00	128.984	600	431581.773	306106.391	1.484	127.500
SW24b			128.857	600	431604.642	306092.465	1.857	127.000
SW24c	0.005	5.00	128.551	600	431604.594	306086.432	1.676	126.875
RE5a	0.010	5.00	128.330	1	431582.859	306075.190	1.130	127.200
SW24f	0.005	5.00	128.356	600	431585.606	306082.770	1.236	127.120
RE5	0.019	5.00	128.430	1	431585.468	306090.197	1.295	127.135
SW24g			128.280	600	431596.628	306083.243	1.355	126.925

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)
17.000	RE2	SW12a	41.177	0.600	128.850	128.000	0.850	48.4	150	5.47	50.0
17.001	SW12a	SW12b	11.874	0.600	128.000	127.600	0.400	29.7	150	5.58	50.0
17.002	SW12b	SW12c	27.029	0.600	127.600	126.610	0.990	27.3	150	5.81	50.0
17.003	SW12c	12	8.417	0.600	126.610	126.525	0.085	99.0	150	5.95	50.0
8.000	25d	25e	15.500	0.600	125.520	125.420	0.100	155.0	225	5.25	50.0
8.001	25e	Tank 1	5.000	0.600	125.420	125.391	0.029	170.0	225	5.33	50.0
1.002	24d	24	21.043	0.600	126.751	126.293	0.458	45.9	225	5.79	50.0
6.000	Rodding Eye 6	24i	5.091	0.600	127.000	126.800	0.200	25.5	150	5.04	50.0
6.001	24i	24	10.033	0.600	126.800	126.397	0.403	24.9	150	5.12	50.0
1.003	24	25	35.232	0.600	126.293	125.371	0.922	38.2	225	6.07	50.0
7.000	25a	25b	13.555	0.600	125.686	125.550	0.136	99.7	150	5.22	50.0
7.001	25b	25	7.501	0.600	125.550	125.475	0.075	100.0	150	5.35	50.0
1.004	25	Tank 1	4.000	0.600	125.371	125.284	0.087	46.0	225	6.10	50.0
9.000	27	28	16.442	0.600	125.650	125.499	0.151	108.9	150	5.28	50.0
10.000	26	28	10.413	0.600	125.650	125.499	0.151	69.0	150	5.14	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)
17.000	1.449	25.6	2.7	0.794	1.163	0.020	0.0	33	0.948
17.001	1.854	32.8	6.6	1.163	1.153	0.049	0.0	46	1.462
17.002	1.934	34.2	6.6	1.153	1.152	0.049	0.0	45	1.504
17.003	1.010	17.8	6.6	1.152	1.117	0.049	0.0	64	0.938
8.000	1.047	41.6	8.4	0.852	0.952	0.062	0.0	68	0.822
8.001	1.000	39.7	8.4	0.952	1.185	0.062	0.0	70	0.795
1.002	1.935	76.9	18.4	1.974	1.495	0.136	0.0	75	1.601
6.000	2.004	35.4	0.4	1.383	1.431	0.003	0.0	11	0.667
6.001	2.026	35.8	0.9	1.431	1.466	0.007	0.0	17	0.868
1.003	2.122	84.4	19.4	1.495	1.179	0.143	0.0	73	1.735
7.000	1.006	17.8	0.0	0.944	1.150	0.000	0.0	0	0.000
7.001	1.005	17.8	0.7	1.150	1.150	0.005	0.0	20	0.483
1.004	1.934	76.9	25.3	1.179	1.292	0.187	0.0	88	1.735
9.000	0.962	17.0	2.0	1.060	1.101	0.015	0.0	35	0.648
10.000	1.212	21.4	1.9	1.050	1.101	0.014	0.0	30	0.750

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)
9.001	28	Tank 1	2.401	0.600	125.499	125.370	0.129	18.6	150	5.30	50.0
1.005	Tank 1	28a	1.701	0.600	125.284	125.273	0.011	154.6	225	6.13	49.9
1.006	28a	30	2.349	0.600	125.273	125.253	0.020	117.4	225	6.16	0.0
11.000	29	30	10.107	0.600	125.822	125.340	0.482	21.0	225	5.06	50.0
1.007	30	33	19.829	0.600	125.178	125.061	0.117	169.5	300	6.44	48.7
12.000	31	32	27.486	0.600	125.486	125.324	0.162	169.7	225	5.46	50.0
12.001	32	33	17.088	0.600	125.324	125.223	0.101	169.2	225	5.74	50.0
1.008	33	34	9.897	0.600	125.061	125.021	0.040	247.4	300	6.60	48.1
1.009	34	35	30.345	0.600	125.021	124.897	0.124	244.7	300	7.11	46.4
13.000	14	15	10.128	0.600	125.175	125.111	0.064	158.2	150	5.21	50.0
13.001	15	15a	4.503	0.600	125.111	125.084	0.027	166.8	150	5.31	50.0
13.002	15a	35	1.653	0.600	125.084	125.059	0.025	66.1	225	5.33	50.0
1.010	35	Tank 2	5.450	0.600	124.897	124.788	0.109	50.0	300	7.15	46.2
14.000	Rodding Eye 1	8a	12.752	0.600	129.750	129.620	0.130	98.1	150	5.21	50.0
14.001	8a	8b	3.648	0.600	129.620	129.570	0.050	73.0	150	5.26	50.0
14.002	8b	8c	21.746	0.600	129.570	128.740	0.830	26.2	150	5.44	50.0
14.003	8c	JCT1	15.456	0.600	128.740	128.585	0.155	100.0	150	5.70	50.0
14.004	JCT1	8d	3.143	0.600	128.585	128.550	0.035	89.8	150	5.75	50.0
14.005	8d	8e	11.898	0.600	128.475	128.400	0.075	158.6	225	5.94	50.0
14.006	8e	8f	3.902	0.600	128.400	128.350	0.050	78.0	225	5.99	50.0
14.007	8f	8	2.426	0.600	128.350	128.125	0.225	10.8	225	6.00	50.0
15.000	5	6	26.981	0.600	128.300	128.180	0.120	224.8	300	5.43	50.0
15.001	6	7	13.176	0.600	128.180	128.100	0.080	164.7	300	5.61	50.0
15.002	7	8	3.202	0.600	128.100	128.050	0.050	64.0	300	5.64	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)
9.001	2.345	41.4	3.9	1.101	1.281	0.029	0.0	31	1.488
1.005	1.049	41.7	37.6	1.292	1.340	0.278	0.0	167	1.182
1.006	1.205	47.9	0.0	1.340	1.399	0.278	0.0	0	0.000
11.000	2.870	114.1	2.7	0.814	1.312	0.020	0.0	24	1.220
1.007	1.205	85.1	41.0	1.399	1.464	0.311	0.0	147	1.194
12.000	1.001	39.8	3.5	1.164	1.301	0.026	0.0	45	0.623
12.001	1.002	39.8	3.5	1.301	1.377	0.026	0.0	45	0.623
1.008	0.995	70.3	45.8	1.464	1.454	0.351	0.0	177	1.057
1.009	1.000	70.7	47.5	1.454	1.603	0.378	0.0	180	1.070
13.000	0.796	14.1	4.9	1.525	1.614	0.036	0.0	61	0.723
13.001	0.775	13.7	4.9	1.614	1.591	0.036	0.0	62	0.710
13.002	1.611	64.0	4.9	1.516	1.516	0.036	0.0	42	0.957
1.010	2.228	157.5	53.6	1.603	1.397	0.428	0.0	120	2.022
14.000	1.014	17.9	1.5	1.100	1.367	0.011	0.0	29	0.612
14.001	1.178	20.8	2.0	1.367	1.294	0.015	0.0	31	0.746
14.002	1.975	34.9	4.7	1.294	1.010	0.035	0.0	37	1.384
14.003	1.005	17.8	9.6	1.010	1.174	0.071	0.0	79	1.025
14.004	1.061	18.7	9.6	1.174	1.230	0.071	0.0	76	1.069
14.005	1.035	41.2	14.2	1.230	1.334	0.105	0.0	91	0.942
14.006	1.481	58.9	14.2	1.334	1.372	0.105	0.0	75	1.225
14.007	4.007	159.3	14.2	1.372	1.615	0.105	0.0	45	2.506
15.000	1.044	73.8	3.3	1.370	1.170	0.024	0.0	42	0.528
15.001	1.222	86.4	6.4	1.170	1.565	0.047	0.0	55	0.722
15.002	1.968	139.1	6.4	1.565	1.615	0.047	0.0	43	1.008

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)
14.008	8	9	47.659	0.600	128.050	127.000	1.050	45.4	300	6.34	49.1
16.000	10	9	6.345	0.600	127.215	127.150	0.065	97.6	150	5.10	50.0
14.009	9	12	17.247	0.600	127.000	126.375	0.625	27.6	300	6.43	48.7
14.010	12	13	18.277	0.600	126.375	126.300	0.075	243.7	300	6.74	47.6
14.011	13	Tank 2	6.617	0.600	124.904	124.875	0.029	228.2	300	6.84	47.3
18.000	46	47	8.872	0.600	125.172	125.133	0.039	227.5	225	5.17	50.0
18.001	47	48	17.684	0.600	125.133	125.048	0.085	208.1	225	5.50	50.0
18.002	48	49	18.062	0.600	125.048	124.940	0.108	167.2	225	5.80	50.0
19.000	41	42	8.376	0.600	125.360	125.303	0.057	147.0	100	5.22	50.0
19.001	42	43	6.448	0.600	125.303	125.261	0.042	153.5	150	5.35	50.0
19.002	43	44	4.093	0.600	125.261	125.100	0.161	25.4	150	5.39	50.0
19.003	44	45	5.564	0.600	125.100	125.000	0.100	55.6	150	5.46	50.0
19.004	45	49	15.130	0.600	125.000	124.940	0.060	252.2	150	5.86	50.0
20.000	36	40a	12.248	0.600	125.200	125.005	0.195	62.8	225	5.12	50.0
24.000	SWD1	SWD2	8.810	0.600	127.315	127.202	0.113	78.0	150	5.13	50.0
21.000	39	40a	7.449	0.600	125.083	125.005	0.078	95.5	225	5.09	50.0
20.001	40a	49	10.991	0.600	125.005	124.940	0.065	169.1	225	5.31	50.0
18.003	49	52	7.067	0.600	124.940	124.900	0.040	176.7	225	5.98	50.0
22.000	51	52	20.411	0.600	125.027	124.900	0.127	160.7	225	5.33	50.0
23.000	50	52	13.428	0.600	125.000	124.900	0.100	134.3	225	5.20	50.0
18.004	52	Tank 2	1.000	0.600	124.900	124.875	0.025	40.0	225	5.99	50.0
1.011	Tank 2	53	8.027	0.600	124.638	124.621	0.017	472.2	450	7.29	45.8
1.012	53	CW32	20.429	0.600	124.621	124.493	0.128	159.6	225	7.62	0.0

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)
14.008	2.339	165.4	20.2	1.615	1.169	0.152	0.0	71	1.606
16.000	1.017	18.0	3.3	1.365	1.169	0.024	0.0	43	0.772
14.009	3.004	212.3	23.2	1.169	1.117	0.176	0.0	67	1.994
14.010	1.002	70.9	29.1	1.117	0.390	0.225	0.0	134	0.955
14.011	1.036	73.3	28.8	1.786	1.310	0.225	0.0	130	0.975
18.000	0.863	34.3	6.0	0.703	0.722	0.044	0.0	64	0.652
18.001	0.902	35.9	6.0	0.722	0.987	0.044	0.0	62	0.672
18.002	1.008	40.1	7.9	0.987	1.160	0.058	0.0	67	0.785
19.000	0.632	5.0	4.3	1.020	0.907	0.032	0.0	72	0.712
19.001	0.808	14.3	5.3	0.857	0.814	0.039	0.0	63	0.748
19.002	2.005	35.4	5.3	0.814	0.935	0.039	0.0	39	1.443
19.003	1.351	23.9	5.3	0.935	1.200	0.039	0.0	48	1.087
19.004	0.628	11.1	6.9	1.200	1.235	0.051	0.0	86	0.662
20.000	1.653	65.7	2.7	0.585	0.845	0.020	0.0	31	0.822
24.000	1.139	20.1	0.0	2.885	2.648	0.000	0.0	0	0.000
21.000	1.338	53.2	0.0	0.742	0.845	0.000	0.0	0	0.000
20.001	1.002	39.9	4.7	0.845	1.160	0.035	0.0	52	0.679
18.003	0.980	39.0	19.5	1.160	1.375	0.144	0.0	113	0.982
22.000	1.028	40.9	4.7	1.153	1.375	0.035	0.0	51	0.690
23.000	1.126	44.8	3.4	1.325	1.375	0.025	0.0	42	0.668
18.004	2.074	82.5	27.6	1.375	1.385	0.204	0.0	89	1.870
1.011	0.929	147.7	106.3	1.397	1.439	0.857	0.0	283	1.007
1.012	1.032	41.0	0.0	1.664	1.082	0.857	0.0	0	0.000

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)
24.001	SWD2	SWD3	36.016	0.600	127.202	126.768	0.434	83.0	150	5.67	50.0
24.002	SWD3	SWD4	80.730	0.600	126.768	125.796	0.972	83.1	150	6.89	47.1
24.003	SWD4	SWD5	13.948	0.600	125.796	125.628	0.168	83.0	150	7.10	46.4
24.004	SWD5	SWD6	5.385	0.600	125.628	125.563	0.065	82.8	150	7.18	46.1
24.005	SWD6	SW Headwall	30.756	0.600	125.563	125.200	0.363	84.7	150	7.65	44.7
1.013	CW32	CW Outfall	9.825	0.600	124.493	124.433	0.060	163.8	225	7.79	0.0
1.000	RE3	SW24e	25.428	0.600	128.600	127.600	1.000	25.4	150	5.21	50.0
1.001	SW24e	24d	21.274	0.600	127.600	126.855	0.745	28.6	150	5.40	50.0
3.000	RE4	SW24b	22.374	0.600	128.200	127.075	1.125	19.9	150	5.16	50.0
2.001	SW24b	SW24c	6.033	0.600	127.000	126.875	0.125	48.3	225	5.40	50.0
2.000	SW24a	SW24b	26.775	0.600	127.500	127.075	0.425	63.0	150	5.35	50.0
4.000	RE5a	SW24f	8.062	0.600	127.200	127.120	0.080	100.8	150	5.13	50.0
4.001	SW24f	SW24g	11.032	0.600	127.120	127.000	0.120	91.9	150	5.31	50.0
5.000	RE5	SW24g	13.149	0.600	127.135	127.000	0.135	97.4	150	5.22	50.0
4.002	SW24g	SW24c	8.581	0.600	126.925	126.875	0.050	171.6	225	5.45	50.0
2.002	SW24c	24d	12.446	0.600	126.875	126.751	0.124	100.4	225	5.61	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)
24.001	1.104	19.5	0.0	2.648	3.082	0.000	0.0	0	0.000
24.002	1.104	19.5	0.0	3.082	0.934	0.000	0.0	0	0.000
24.003	1.104	19.5	0.0	0.934	0.747	0.000	0.0	0	0.000
24.004	1.105	19.5	0.0	0.747	0.812	0.000	0.0	0	0.000
24.005	1.092	19.3	0.0	0.812	0.850	0.000	0.0	0	0.000
1.013	1.019	40.5	0.0	1.082	0.742	0.857	0.0	0	0.000
1.000	2.005	35.4	2.0	1.322	1.536	0.015	0.0	24	1.090
1.001	1.891	33.4	4.9	1.536	1.945	0.036	0.0	38	1.349
3.000	2.268	40.1	2.8	1.382	1.632	0.021	0.0	27	1.323
2.001	1.887	75.0	6.9	1.632	1.451	0.051	0.0	46	1.191
2.000	1.269	22.4	4.1	1.334	1.632	0.030	0.0	43	0.965
4.000	1.001	17.7	1.4	0.980	1.086	0.010	0.0	28	0.589
4.001	1.048	18.5	2.0	1.086	1.130	0.015	0.0	34	0.692
5.000	1.018	18.0	2.6	1.145	1.130	0.019	0.0	38	0.725
4.002	0.995	39.6	4.6	1.130	1.451	0.034	0.0	51	0.667
2.002	1.305	51.9	12.2	1.451	1.974	0.090	0.0	74	1.072

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)
17.000	41.177	48.4	150	Pipe	129.794	128.850	0.794	129.313	128.000	1.163
17.001	11.874	29.7	150	Pipe	129.313	128.000	1.163	128.903	127.600	1.153
17.002	27.029	27.3	150	Pipe	128.903	127.600	1.153	127.912	126.610	1.152
17.003	8.417	99.0	150	Pipe	127.912	126.610	1.152	127.792	126.525	1.117
8.000	15.500	155.0	225	Pipe	126.597	125.520	0.852	126.597	125.420	0.952
8.001	5.000	170.0	225	Pipe	126.597	125.420	0.952	126.801	125.391	1.185
1.002	21.043	45.9	225	Pipe	128.950	126.751	1.974	128.013	126.293	1.495
6.000	5.091	25.5	150	Pipe	128.533	127.000	1.383	128.381	126.800	1.431
6.001	10.033	24.9	150	Pipe	128.381	126.800	1.431	128.013	126.397	1.466
1.003	35.232	38.2	225	Pipe	128.013	126.293	1.495	126.775	125.371	1.179
7.000	13.555	99.7	150	Pipe	126.780	125.686	0.944	126.850	125.550	1.150
7.001	7.501	100.0	150	Pipe	126.850	125.550	1.150	126.775	125.475	1.150
1.004	4.000	46.0	225	Pipe	126.775	125.371	1.179	126.801	125.284	1.292
9.000	16.442	108.9	150	Pipe	126.860	125.650	1.060	126.750	125.499	1.101
10.000	10.413	69.0	150	Pipe	126.850	125.650	1.050	126.750	125.499	1.101
9.001	2.401	18.6	150	Pipe	126.750	125.499	1.101	126.801	125.370	1.281
1.005	1.701	154.6	225	Pipe	126.801	125.284	1.292	126.838	125.273	1.340
1.006	2.349	117.4	225	Pipe	126.838	125.273	1.340	126.877	125.253	1.399
11.000	10.107	21.0	225	Pipe	126.861	125.822	0.814	126.877	125.340	1.312
1.007	19.829	169.5	300	Pipe	126.877	125.178	1.399	126.825	125.061	1.464
12.000	27.486	169.7	225	Pipe	126.875	125.486	1.164	126.850	125.324	1.301
12.001	17.088	169.2	225	Pipe	126.850	125.324	1.301	126.825	125.223	1.377
1.008	9.897	247.4	300	Pipe	126.825	125.061	1.464	126.775	125.021	1.454
1.009	30.345	244.7	300	Pipe	126.775	125.021	1.454	126.800	124.897	1.603

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
17.000	RE2	1	Manhole	Adoptable	SW12a	600	Manhole	Adoptable
17.001	SW12a	600	Manhole	Adoptable	SW12b	600	Manhole	Adoptable
17.002	SW12b	600	Manhole	Adoptable	SW12c	600	Manhole	Adoptable
17.003	SW12c	600	Manhole	Adoptable	12	1200	Manhole	Adoptable
8.000	25d	600	Manhole	Adoptable	25e	600	Manhole	Adoptable
8.001	25e	600	Manhole	Adoptable	Tank 1		Junction	
1.002	24d	600	Manhole	Adoptable	24	1200	Manhole	Adoptable
6.000	Rodding Eye 6	150	Manhole	Adoptable	24i	600	Manhole	Adoptable
6.001	24i	600	Manhole	Adoptable	24	1200	Manhole	Adoptable
1.003	24	1200	Manhole	Adoptable	25	1200	Manhole	Adoptable
7.000	25a	600	Manhole	Adoptable	25b	600	Manhole	Adoptable
7.001	25b	600	Manhole	Adoptable	25	1200	Manhole	Adoptable
1.004	25	1200	Manhole	Adoptable	Tank 1		Junction	
9.000	27	600	Manhole	Adoptable	28	600	Manhole	Adoptable
10.000	26	600	Manhole	Adoptable	28	600	Manhole	Adoptable
9.001	28	600	Manhole	Adoptable	Tank 1		Junction	
1.005	Tank 1		Junction		28a	1200	Manhole	Adoptable
1.006	28a	1200	Manhole	Adoptable	30	600	Manhole	Adoptable
11.000	29	600	Manhole	Adoptable	30	600	Manhole	Adoptable
1.007	30	600	Manhole	Adoptable	33	1200	Manhole	Adoptable
12.000	31	600	Manhole	Adoptable	32	600	Manhole	Adoptable
12.001	32	600	Manhole	Adoptable	33	1200	Manhole	Adoptable
1.008	33	1200	Manhole	Adoptable	34	1200	Manhole	Adoptable
1.009	34	1200	Manhole	Adoptable	35	1200	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)
13.000	10.128	158.2	150	Pipe	126.850	125.175	1.525	126.875	125.111	1.614
13.001	4.503	166.8	150	Pipe	126.875	125.111	1.614	126.825	125.084	1.591
13.002	1.653	66.1	225	Pipe	126.825	125.084	1.516	126.800	125.059	1.516
1.010	5.450	50.0	300	Pipe	126.800	124.897	1.603	126.485	124.788	1.397
14.000	12.752	98.1	150	Pipe	131.000	129.750	1.100	131.137	129.620	1.367
14.001	3.648	73.0	150	Pipe	131.137	129.620	1.367	131.014	129.570	1.294
14.002	21.746	26.2	150	Pipe	131.014	129.570	1.294	129.900	128.740	1.010
14.003	15.456	100.0	150	Pipe	129.900	128.740	1.010	129.909	128.585	1.174
14.004	3.143	89.8	150	Pipe	129.909	128.585	1.174	129.930	128.550	1.230
14.005	11.898	158.6	225	Pipe	129.930	128.475	1.230	129.959	128.400	1.334
14.006	3.902	78.0	225	Pipe	129.959	128.400	1.334	129.947	128.350	1.372
14.007	2.426	10.8	225	Pipe	129.947	128.350	1.372	129.965	128.125	1.615
15.000	26.981	224.8	300	Pipe	129.970	128.300	1.370	129.650	128.180	1.170
15.001	13.176	164.7	300	Pipe	129.650	128.180	1.170	129.965	128.100	1.565
15.002	3.202	64.0	300	Pipe	129.965	128.100	1.565	129.965	128.050	1.615
14.008	47.659	45.4	300	Pipe	129.965	128.050	1.615	128.469	127.000	1.169
16.000	6.345	97.6	150	Pipe	128.730	127.215	1.365	128.469	127.150	1.169
14.009	17.247	27.6	300	Pipe	128.469	127.000	1.169	127.792	126.375	1.117
14.010	18.277	243.7	300	Pipe	127.792	126.375	1.117	126.990	126.300	0.390
14.011	6.617	228.2	300	Pipe	126.990	124.904	1.786	126.485	124.875	1.310
18.000	8.872	227.5	225	Pipe	126.100	125.172	0.703	126.080	125.133	0.722
18.001	17.684	208.1	225	Pipe	126.080	125.133	0.722	126.260	125.048	0.987
18.002	18.062	167.2	225	Pipe	126.260	125.048	0.987	126.325	124.940	1.160
19.000	8.376	147.0	100	Pipe	126.480	125.360	1.020	126.310	125.303	0.907

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
13.000	14	600	Manhole	Adoptable	15	600	Manhole	Adoptable
13.001	15	600	Manhole	Adoptable	15a	600	Manhole	Adoptable
13.002	15a	600	Manhole	Adoptable	35	1200	Manhole	Adoptable
1.010	35	1200	Manhole	Adoptable	Tank 2		Junction	
14.000	Rodding Eye 1	150	Manhole	Adoptable	8a	600	Manhole	Adoptable
14.001	8a	600	Manhole	Adoptable	8b	600	Manhole	Adoptable
14.002	8b	600	Manhole	Adoptable	8c	600	Manhole	Adoptable
14.003	8c	600	Manhole	Adoptable	JCT1		Junction	
14.004	JCT1		Junction		8d	600	Manhole	Adoptable
14.005	8d	600	Manhole	Adoptable	8e	600	Manhole	Adoptable
14.006	8e	600	Manhole	Adoptable	8f	600	Manhole	Adoptable
14.007	8f	600	Manhole	Adoptable	8	1200	Manhole	Adoptable
15.000	5	1200	Manhole	Adoptable	6	1200	Manhole	Adoptable
15.001	6	1200	Manhole	Adoptable	7	1200	Manhole	Adoptable
15.002	7	1200	Manhole	Adoptable	8	1200	Manhole	Adoptable
14.008	8	1200	Manhole	Adoptable	9	1200	Manhole	Adoptable
16.000	10	600	Manhole	Adoptable	9	1200	Manhole	Adoptable
14.009	9	1200	Manhole	Adoptable	12	1200	Manhole	Adoptable
14.010	12	1200	Manhole	Adoptable	13	600	Manhole	Adoptable
14.011	13	600	Manhole	Adoptable	Tank 2		Junction	
18.000	46	600	Manhole	Adoptable	47	600	Manhole	Adoptable
18.001	47	600	Manhole	Adoptable	48	600	Manhole	Adoptable
18.002	48	600	Manhole	Adoptable	49	600	Manhole	Adoptable
19.000	41	600	Manhole	Adoptable	42	600	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)
19.001	6.448	153.5	150	Pipe	126.310	125.303	0.857	126.225	125.261	0.814
19.002	4.093	25.4	150	Pipe	126.225	125.261	0.814	126.185	125.100	0.935
19.003	5.564	55.6	150	Pipe	126.185	125.100	0.935	126.350	125.000	1.200
19.004	15.130	252.2	150	Pipe	126.350	125.000	1.200	126.325	124.940	1.235
20.000	12.248	62.8	225	Pipe	126.010	125.200	0.585	126.075	125.005	0.845
24.000	8.810	78.0	150	Pipe	130.350	127.315	2.885	130.000	127.202	2.648
21.000	7.449	95.5	225	Pipe	126.050	125.083	0.742	126.075	125.005	0.845
20.001	10.991	169.1	225	Pipe	126.075	125.005	0.845	126.325	124.940	1.160
18.003	7.067	176.7	225	Pipe	126.325	124.940	1.160	126.500	124.900	1.375
22.000	20.411	160.7	225	Pipe	126.405	125.027	1.153	126.500	124.900	1.375
23.000	13.428	134.3	225	Pipe	126.550	125.000	1.325	126.500	124.900	1.375
18.004	1.000	40.0	225	Pipe	126.500	124.900	1.375	126.485	124.875	1.385
1.011	8.027	472.2	450	Pipe	126.485	124.638	1.397	126.510	124.621	1.439
1.012	20.429	159.6	225	Pipe	126.510	124.621	1.664	125.800	124.493	1.082
24.001	36.016	83.0	150	Pipe	130.000	127.202	2.648	130.000	126.768	3.082
24.002	80.730	83.1	150	Pipe	130.000	126.768	3.082	126.880	125.796	0.934
24.003	13.948	83.0	150	Pipe	126.880	125.796	0.934	126.525	125.628	0.747
24.004	5.385	82.8	150	Pipe	126.525	125.628	0.747	126.525	125.563	0.812
24.005	30.756	84.7	150	Pipe	126.525	125.563	0.812	126.200	125.200	0.850
1.013	9.825	163.8	225	Pipe	125.800	124.493	1.082	125.400	124.433	0.742
1.000	25.428	25.4	150	Pipe	130.072	128.600	1.322	129.286	127.600	1.536
1.001	21.274	28.6	150	Pipe	129.286	127.600	1.536	128.950	126.855	1.945
3.000	22.374	19.9	150	Pipe	129.732	128.200	1.382	128.857	127.075	1.632
2.001	6.033	48.3	225	Pipe	128.857	127.000	1.632	128.551	126.875	1.451

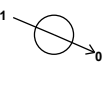
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
19.001	42	600	Manhole	Adoptable	43	600	Manhole	Adoptable
19.002	43	600	Manhole	Adoptable	44	600	Manhole	Adoptable
19.003	44	600	Manhole	Adoptable	45	600	Manhole	Adoptable
19.004	45	600	Manhole	Adoptable	49	600	Manhole	Adoptable
20.000	36	600	Manhole	Adoptable	40a	600	Manhole	Adoptable
24.000	SWD1	1200	Manhole	Adoptable	SWD2	600	Manhole	Adoptable
21.000	39	600	Manhole	Adoptable	40a	600	Manhole	Adoptable
20.001	40a	600	Manhole	Adoptable	49	600	Manhole	Adoptable
18.003	49	600	Manhole	Adoptable	52	600	Manhole	Adoptable
22.000	51	600	Manhole	Adoptable	52	600	Manhole	Adoptable
23.000	50	600	Manhole	Adoptable	52	600	Manhole	Adoptable
18.004	52	600	Manhole	Adoptable	Tank 2		Junction	
1.011	Tank 2		Junction		53	1350	Manhole	Adoptable
1.012	53	1350	Manhole	Adoptable	CW32	600	Manhole	Adoptable
24.001	SWD2	600	Manhole	Adoptable	SWD3	1200	Manhole	Adoptable
24.002	SWD3	1200	Manhole	Adoptable	SWD4	1200	Manhole	Adoptable
24.003	SWD4	1200	Manhole	Adoptable	SWD5	600	Manhole	Adoptable
24.004	SWD5	600	Manhole	Adoptable	SWD6	1200	Manhole	Adoptable
24.005	SWD6	1200	Manhole	Adoptable	SW Headwall		Junction	
1.013	CW32	600	Manhole	Adoptable	CW Outfall		Junction	
1.000	RE3	1	Manhole	Adoptable	SW24e	600	Manhole	Adoptable
1.001	SW24e	600	Manhole	Adoptable	24d	600	Manhole	Adoptable
3.000	RE4	1	Manhole	Adoptable	SW24b	600	Manhole	Adoptable
2.001	SW24b	600	Manhole	Adoptable	SW24c	600	Manhole	Adoptable

Pipeline Schedule

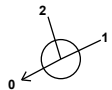
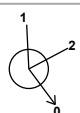
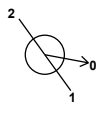
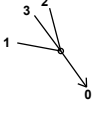
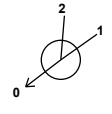
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
2.000	26.775	63.0	150	Pipe	128.984	127.500	1.334	128.857	127.075	1.632
4.000	8.062	100.8	150	Pipe	128.330	127.200	0.980	128.356	127.120	1.086
4.001	11.032	91.9	150	Pipe	128.356	127.120	1.086	128.280	127.000	1.130
5.000	13.149	97.4	150	Pipe	128.430	127.135	1.145	128.280	127.000	1.130
4.002	8.581	171.6	225	Pipe	128.280	126.925	1.130	128.551	126.875	1.451
2.002	12.446	100.4	225	Pipe	128.551	126.875	1.451	128.950	126.751	1.974

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.000	SW24a	600	Manhole	Adoptable	SW24b	600	Manhole	Adoptable
4.000	RE5a	1	Manhole	Adoptable	SW24f	600	Manhole	Adoptable
4.001	SW24f	600	Manhole	Adoptable	SW24g	600	Manhole	Adoptable
5.000	RE5	1	Manhole	Adoptable	SW24g	600	Manhole	Adoptable
4.002	SW24g	600	Manhole	Adoptable	SW24c	600	Manhole	Adoptable
2.002	SW24c	600	Manhole	Adoptable	24d	600	Manhole	Adoptable

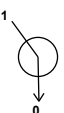
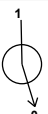
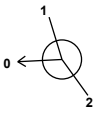
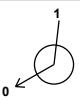
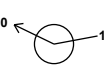
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
RE2	431497.424	306124.877	129.794	0.944	1				
SW12a	431501.169	306083.871	129.313	1.313	600		17.000	128.850	150
SW12b	431512.111	306079.259	128.903	1.303	600		17.001	128.000	150
SW12c	431536.885	306068.452	127.912	1.302	600		17.002	127.600	150
25d	431610.467	306036.811	126.597	1.077	600		17.003	126.610	150
25e	431601.396	306049.380	126.597	1.177	600		8.000	125.520	225
24d	431616.873	306084.401	128.950	2.199	600		8.001	125.420	225
Rodding Eye 6	431632.626	306073.619	128.533	1.533	150		2.002	126.751	225
							1.001	126.855	150
							1.002	126.751	225
							6.000	127.000	150

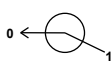
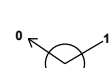
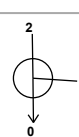
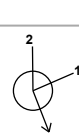
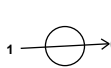
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
24i	431632.014	306068.565	128.381	1.581	600		1 6.000	126.800	150
						0	6.001	126.800	150
24	431622.954	306064.256	128.013	1.720	1200		1 6.001	126.397	150
						2	1.002	126.293	225
						0	1.003	126.293	225
25a	431583.448	306066.189	126.780	1.094	600		0 7.000	125.686	150
25b	431591.460	306055.255	126.850	1.300	600		1 7.000	125.550	150
						0	7.001	125.550	150
25	431591.821	306047.763	126.775	1.404	1200		1 7.001	125.475	150
						2	1.003	125.371	225
						0	1.004	125.371	225
27	431584.829	306042.689	126.860	1.210	600		0 9.000	125.650	150
26	431600.548	306020.915	126.850	1.200	600		0 10.000	125.650	150
28	431594.442	306029.350	126.750	1.251	600		1 10.000	125.499	150
						2	9.000	125.499	150
						0	9.001	125.499	150
Tank 1	431607.266	306026.969	126.801	1.517			1 9.001	125.370	150
						2	8.001	125.391	225
						3	1.004	125.284	225
						0	1.005	125.284	225
28a	431608.255	306025.585	126.838	1.565	1200		1 1.005	125.273	225
						0	1.006	125.273	225
29	431616.317	306029.079	126.861	1.039	600		0 11.000	125.822	225
30	431608.064	306023.244	126.877	1.699	600		1 11.000	125.340	225
						2	1.006	125.253	225
						0	1.007	125.178	300
31	431625.768	306014.523	126.875	1.389	600		0 12.000	125.486	225

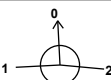
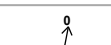
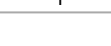
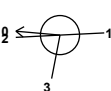
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
32	431603.562	305998.325	126.850	1.526	600		1 12.000	125.324	225
							0 12.001	125.324	225
33	431592.318	306011.192	126.825	1.764	1200		1 12.001	125.223	225
							2 1.007	125.061	300
							0 1.008	125.061	300
34	431584.351	306005.321	126.775	1.754	1200		1 1.008	125.021	300
							0 1.009	125.021	300
14	431560.026	306044.177	126.850	1.675	600		0 13.000	125.175	150
15	431566.011	306036.007	126.875	1.764	600		1 13.000	125.111	150
							0 13.001	125.111	150
15a	431566.107	306031.505	126.825	1.741	600		1 13.001	125.084	150
							0 13.002	125.084	225
35	431566.589	306029.924	126.800	1.903	1200		1 13.002	125.059	225
							2 1.009	124.897	300
							0 1.010	124.897	300
Rodding Eye 1	431547.878	306155.192	131.000	1.250	150		0 14.000	129.750	150
8a	431560.567	306153.931	131.137	1.517	600		1 14.000	129.620	150
							0 14.001	129.620	150
8b	431562.616	306150.913	131.014	1.444	600		1 14.001	129.570	150
							0 14.002	129.570	150
8c	431560.143	306129.308	129.900	1.160	600		1 14.002	128.740	150
							0 14.003	128.740	150
JCT1	431546.731	306121.627	129.909	1.324			1 14.003	128.585	150
							0 14.004	128.585	150
8d	431543.641	306121.052	129.930	1.455	600		1 14.004	128.550	150
							0 14.005	128.475	225

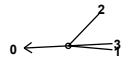
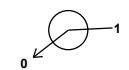
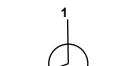
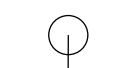
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
8e	431532.934	306126.240	129.959	1.559	600		1	14.005	128.400	225
							0	14.006	128.400	225
							1	14.006	128.350	225
8f	431529.032	306126.253	129.947	1.597	600		1	14.006	128.350	225
							0	14.007	128.350	225
5	431566.394	306130.156	129.970	1.670	1200		0	15.000	128.300	300
6	431543.157	306116.444	129.650	1.470	1200		1	15.000	128.180	300
							0	15.001	128.180	300
							1	15.001	128.100	300
7	431532.269	306123.865	129.965	1.865	1200		1	15.001	128.100	300
							0	15.002	128.100	300
							1	15.002	128.050	300
8	431529.069	306123.827	129.965	1.915	1200		1	15.002	128.050	300
							2	14.007	128.125	225
							0	14.008	128.050	300
10	431535.412	306078.699	128.730	1.515	600		0	16.000	127.215	150
9	431529.592	306076.171	128.469	1.469	1200		1	16.000	127.150	150
							2	14.008	127.000	300
							0	14.009	127.000	300
12	431535.849	306060.099	127.792	1.417	1200		1	17.003	126.525	150
							2	14.009	126.375	300
							0	14.010	126.375	300
13	431533.786	306041.939	126.990	2.086	600		1	14.010	126.300	300
							0	14.011	124.904	300
46	431497.261	306026.340	126.100	0.928	600		0	18.000	125.172	225
47	431497.547	306017.473	126.080	0.947	600		1	18.000	125.133	225
							0	18.001	125.133	225
							1	18.001	125.048	225
48	431515.208	306018.380	126.260	1.212	600		1	18.001	125.048	225
							0	18.002	125.048	225

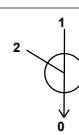
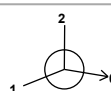
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
41	431560.582	306027.437	126.480	1.120	600		0	19.000	125.360	100
42	431558.660	306019.284	126.310	1.007	600		1	19.000	125.303	100
							0	19.001	125.303	150
43	431553.582	306015.311	126.225	0.964	600		1	19.001	125.261	150
							0	19.002	125.261	150
44	431549.570	306014.503	126.185	1.085	600		1	19.002	125.100	150
							0	19.003	125.100	150
45	431548.363	306019.934	126.350	1.350	600		1	19.003	125.000	150
							0	19.004	125.000	150
36	431546.007	306007.240	126.010	0.810	600		0	20.000	125.200	225
SWD1	431564.194	306140.714	130.350	3.035	1200		0	24.000	127.315	150
39	431526.372	306007.980	126.050	0.967	600		0	21.000	125.083	225
40a	431533.811	306008.363	126.075	1.070	600		1	21.000	125.005	225
							2	20.000	125.005	225
							0	20.001	125.005	225
49	431533.245	306019.339	126.325	1.385	600		1	20.001	124.940	225
							2	19.004	124.940	150
							3	18.002	124.940	225
							0	18.003	124.940	225
51	431514.197	306025.225	126.405	1.378	600		0	22.000	125.027	225
50	431547.993	306026.938	126.550	1.550	600		0	23.000	125.000	225
52	431534.581	306026.279	126.500	1.600	600		1	23.000	124.900	225
							2	22.000	124.900	225
							3	18.003	124.900	225
							0	18.004	124.900	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
Tank 2	431519.997	306027.567	126.485	1.847			1 2 3 0	18.004 14.011 1.010 1.011	124.875 124.875 124.788 124.638	225 300 300 450
53	431511.980	306027.168	126.510	1.889	1350		1 0	1.011 1.012	124.621 124.621	450 225
CW32	431495.856	306014.623	125.800	1.307	600		1 0	1.012 1.013	124.493 124.493	225 225
SWD2	431564.329	306131.905	130.000	2.798	600		1 0	24.000 24.001	127.202 127.202	150 150
SWD3	431530.530	306119.463	130.000	3.232	1200		1 0	24.001 24.002	126.768 126.768	150 150
SWD5	431518.729	306036.852	126.525	0.897	600		1 0	24.003 24.004	125.628 125.628	150 150
SW Headwall	431489.191	306019.896	126.200	1.000			1	24.005	125.200	150
SWD4	431532.546	306038.758	126.880	1.084	1200		1 0	24.002 24.003	125.796 125.796	150 150
SWD6	431517.642	306031.578	126.525	0.962	1200		1 0	24.004 24.005	125.563 125.563	150 150
CW Outfall	431486.392	306011.984	125.400	0.967			1	1.013	124.433	225
RE3	431633.103	306124.299	130.072	1.472	1		0	1.000	128.600	150
SW24e	431615.818	306105.649	129.286	1.686	600		1 0	1.000 1.001	127.600 127.600	150 150
RE4	431604.728	306114.839	129.732	1.532	1		0	3.000	128.200	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
SW24a	431581.773	306106.391	128.984	1.484	600		0	2.000	127.500	150
SW24b	431604.642	306092.465	128.857	1.857	600		1	3.000	127.075	150
							2	2.000	127.075	150
							0	2.001	127.000	225
SW24c	431604.594	306086.432	128.551	1.676	600		1	4.002	126.875	225
							2	2.001	126.875	225
							0	2.002	126.875	225
RE5a	431582.859	306075.190	128.330	1.130	1		0	4.000	127.200	150
SW24f	431585.606	306082.770	128.356	1.236	600		1	4.000	127.120	150
RE5	431585.468	306090.197	128.430	1.295	1		0	4.001	127.120	150
							0	5.000	127.135	150
SW24g	431596.628	306083.243	128.280	1.355	600		1	5.000	127.000	150
							2	4.001	127.000	150
							0	4.002	126.925	225

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	20.000	Additional Storage (m³/ha)	20.0
Ratio-R	0.400	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440 | 2160

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

Node 28a Online ACO Q-Brake Control

Flap Valve	x	Design Depth (m)	1.000	Min Node Diameter (mm)	1050
Replaces Downstream Link	✓	Design Flow (l/s)	2.0	Orifice Diameter (m)	0.065
Invert Level (m)	125.273	Min Outlet Diameter (m)	0.095		

Node 53 Online ACO Q-Brake Control

Flap Valve	x	Design Depth (m)	1.125	Min Node Diameter (mm)	1050
Replaces Downstream Link	✓	Design Flow (l/s)	10.0	Orifice Diameter (m)	0.132
Invert Level (m)	124.621	Min Outlet Diameter (m)	0.145		

Node Tank 1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	125.284
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	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	220.0	0.0	0.750	220.0	0.0	0.751	0.0	0.0

Node Tank 2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	124.638
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	373.5	0.0	0.750	373.5	0.0	0.751	0.0	0.0

Approval Settings

Node Size	✓	Maximum Full Bore Velocity (m/s)	3.000
Node Losses	✓	Proportional Velocity	✓
Link Size	✓	Return Period (years)	
Minimum Diameter (mm)	150	Minimum Proportional Velocity (m/s)	0.750
Link Length	✓	Maximum Proportional Velocity (m/s)	3.000
Maximum Length (m)	100.000	Surcharged Depth	✓
Coordinates	✓	Return Period (years)	
Accuracy (m)	1.000	Maximum Surcharged Depth (m)	0.100
Crossings	✓	Flooding	✓
Cover Depth	✓	Return Period (years)	30
Minimum Cover Depth (m)		Time to Half Empty	x
Maximum Cover Depth (m)	3.000	Discharge Rates	✓
Backdrops	✓	Discharge Volume	✓
Minimum Backdrop Height (m)		100 year 360 minute (m³)	
Maximum Backdrop Height (m)	1.500	First Flush	✓
Full Bore Velocity	✓	Return Period (years)	30
Minimum Full Bore Velocity (m/s)		First Flush Depth (mm)	5

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	109.521	30.991	1 year 180 minute summer	23.233	5.979
1 year 15 minute winter	76.857	30.991	1 year 180 minute winter	15.102	5.979
1 year 30 minute summer	71.439	20.215	1 year 240 minute summer	18.475	4.882
1 year 30 minute winter	50.133	20.215	1 year 240 minute winter	12.274	4.882
1 year 60 minute summer	48.435	12.800	1 year 360 minute summer	14.169	3.646
1 year 60 minute winter	32.179	12.800	1 year 360 minute winter	9.210	3.646
1 year 120 minute summer	30.053	7.942	1 year 480 minute summer	11.185	2.956
1 year 120 minute winter	19.966	7.942	1 year 480 minute winter	7.431	2.956

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 600 minute summer	9.182	2.511	30 year 960 minute winter	9.416	3.743
1 year 600 minute winter	6.274	2.511	30 year 1440 minute summer	10.161	2.723
1 year 720 minute summer	8.203	2.199	30 year 1440 minute winter	6.829	2.723
1 year 720 minute winter	5.513	2.199	30 year 2160 minute summer	7.160	1.979
1 year 960 minute summer	6.768	1.782	30 year 2160 minute winter	4.933	1.979
1 year 960 minute winter	4.483	1.782	100 year +40% CC 15 minute summer	488.233	138.153
1 year 1440 minute summer	4.949	1.326	100 year +40% CC 15 minute winter	342.620	138.153
1 year 1440 minute winter	3.326	1.326	100 year +40% CC 30 minute summer	320.551	90.705
1 year 2160 minute summer	3.574	0.988	100 year +40% CC 30 minute winter	224.948	90.705
1 year 2160 minute winter	2.462	0.988	100 year +40% CC 60 minute summer	214.603	56.713
30 year 15 minute summer	268.706	76.035	100 year +40% CC 60 minute winter	142.577	56.713
30 year 15 minute winter	188.566	76.035	100 year +40% CC 120 minute summer	129.587	34.246
30 year 30 minute summer	174.929	49.499	100 year +40% CC 120 minute winter	86.094	34.246
30 year 30 minute winter	122.757	49.499	100 year +40% CC 180 minute summer	97.729	25.149
30 year 60 minute summer	116.589	30.811	100 year +40% CC 180 minute winter	63.526	25.149
30 year 60 minute winter	77.459	30.811	100 year +40% CC 240 minute summer	75.977	20.078
30 year 120 minute summer	70.438	18.615	100 year +40% CC 240 minute winter	50.477	20.078
30 year 120 minute winter	46.797	18.615	100 year +40% CC 360 minute summer	56.677	14.585
30 year 180 minute summer	53.298	13.715	100 year +40% CC 360 minute winter	36.841	14.585
30 year 180 minute winter	34.645	13.715	100 year +40% CC 480 minute summer	43.979	11.622
30 year 240 minute summer	41.604	10.995	100 year +40% CC 480 minute winter	29.219	11.622
30 year 240 minute winter	27.641	10.995	100 year +40% CC 600 minute summer	35.604	9.738
30 year 360 minute summer	31.221	8.034	100 year +40% CC 600 minute winter	24.327	9.738
30 year 360 minute winter	20.295	8.034	100 year +40% CC 720 minute summer	31.433	8.424
30 year 480 minute summer	24.324	6.428	100 year +40% CC 720 minute winter	21.125	8.424
30 year 480 minute winter	16.160	6.428	100 year +40% CC 960 minute summer	25.432	6.697
30 year 600 minute summer	19.756	5.404	100 year +40% CC 960 minute winter	16.847	6.697
30 year 600 minute winter	13.498	5.404	100 year +40% CC 1440 minute summer	18.055	4.839
30 year 720 minute summer	17.490	4.687	100 year +40% CC 1440 minute winter	12.134	4.839
30 year 720 minute winter	11.754	4.687	100 year +40% CC 2160 minute summer	12.630	3.490
30 year 960 minute summer	14.215	3.743	100 year +40% CC 2160 minute winter	8.702	3.490

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	RE2	10	128.883	0.033	2.8	0.0141	0.0000	OK
15 minute winter	SW12a	10	128.048	0.048	6.9	0.0351	0.0000	OK
15 minute winter	SW12b	11	127.645	0.045	6.7	0.0127	0.0000	OK
15 minute winter	SW12c	11	126.678	0.068	6.7	0.0193	0.0000	OK
15 minute winter	25d	10	125.592	0.072	8.7	0.1035	0.0000	OK
15 minute winter	25e	10	125.494	0.074	8.6	0.0208	0.0000	OK
15 minute winter	24d	11	126.830	0.079	18.6	0.0294	0.0000	OK
15 minute summer	Rodding Eye 6	11	127.011	0.011	0.4	0.0006	0.0000	OK
15 minute winter	24i	10	126.817	0.017	1.0	0.0058	0.0000	OK
15 minute winter	24	11	126.367	0.074	19.7	0.0834	0.0000	OK
15 minute summer	25a	1	125.686	0.000	0.0	0.0000	0.0000	OK
15 minute winter	25b	11	125.571	0.021	0.7	0.0075	0.0000	OK
15 minute winter	25	11	125.466	0.095	25.7	0.1606	0.0000	OK
15 minute winter	27	10	125.686	0.036	2.1	0.0193	0.0000	OK
15 minute winter	26	10	125.681	0.031	2.0	0.0162	0.0000	OK
15 minute winter	28	10	125.533	0.034	4.1	0.0095	0.0000	OK
240 minute winter	Tank 1	188	125.427	0.143	9.9	29.8273	0.0000	OK
240 minute winter	28a	188	125.427	0.154	1.8	0.1738	0.0000	OK
15 minute winter	29	10	125.847	0.025	2.8	0.0166	0.0000	OK
15 minute winter	30	11	125.229	0.051	5.5	0.0223	0.0000	OK
15 minute winter	31	10	125.533	0.047	3.7	0.0306	0.0000	OK
15 minute winter	32	11	125.371	0.047	3.6	0.0132	0.0000	OK
15 minute winter	33	11	125.148	0.087	11.0	0.1122	0.0000	OK
15 minute winter	34	11	125.115	0.094	14.6	0.1357	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 winter	RE2	17.000	SW12a	2.8	0.714	0.108	0.1609	
15 minute winter	SW12a	17.001	SW12b	6.7	1.444	0.206	0.0554	
15 minute winter	SW12b	17.002	SW12c	6.7	1.118	0.196	0.1654	
15 minute winter	SW12c	17.003	12	6.7	0.905	0.378	0.0628	
15 minute winter	25d	8.000	25e	8.6	0.771	0.206	0.1724	
15 minute winter	25e	8.001	Tank 1	8.5	0.777	0.213	0.0546	
15 minute winter	24d	1.002	24	18.8	1.586	0.244	0.2490	
15 minute summer	Rodding Eye 6	6.000	24i	0.4	0.486	0.011	0.0042	
15 minute winter	24i	6.001	24	1.0	0.872	0.027	0.0112	
15 minute winter	24	1.003	25	19.8	1.454	0.234	0.4804	
15 minute summer	25a	7.000	25b	0.0	0.000	0.000	0.0096	
15 minute winter	25b	7.001	25	0.7	0.483	0.039	0.0109	
15 minute winter	25	1.004	Tank 1	25.8	2.850	0.335	0.0438	
15 minute winter	27	9.000	28	2.1	0.667	0.122	0.0512	
15 minute winter	26	10.000	28	2.0	0.710	0.093	0.0291	
15 minute winter	28	9.001	Tank 1	4.0	1.431	0.097	0.0068	
240 minute winter	Tank 1	1.005	28a	1.8	0.486	0.044	0.0472	
240 minute winter	28a	ACO Q-Brake	30	1.8				
15 minute winter	29	11.000	30	2.8	1.195	0.024	0.0236	
15 minute winter	30	1.007	33	5.5	0.452	0.064	0.2467	
15 minute winter	31	12.000	32	3.6	0.625	0.092	0.1608	
15 minute winter	32	12.001	33	3.6	0.620	0.090	0.0994	
15 minute winter	33	1.008	34	11.0	0.611	0.156	0.1774	
15 minute winter	34	1.009	35	14.4	0.863	0.204	0.5110	

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	14	10	125.241	0.066	5.1	0.0467	0.0000	OK
15 minute winter	15	10	125.176	0.065	5.0	0.0184	0.0000	OK
15 minute winter	15a	10	125.133	0.049	5.0	0.0140	0.0000	OK
15 minute winter	35	11	124.976	0.079	21.3	0.1008	0.0000	OK
15 minute winter	Rodding Eye 1	10	129.780	0.030	1.6	0.0059	0.0000	OK
15 minute winter	8a	10	129.655	0.035	2.2	0.0117	0.0000	OK
15 minute winter	8b	10	129.608	0.038	4.9	0.0213	0.0000	OK
15 minute winter	8c	10	128.822	0.082	10.0	0.0737	0.0000	OK
15 minute winter	JCT1	11	128.668	0.083	9.8	0.0000	0.0000	OK
15 minute winter	8d	10	128.572	0.097	14.5	0.0728	0.0000	OK
15 minute winter	8e	11	128.486	0.086	14.4	0.0242	0.0000	OK
15 minute winter	8f	11	128.405	0.055	14.5	0.0155	0.0000	OK
15 minute winter	5	10	128.343	0.043	3.4	0.0606	0.0000	OK
15 minute winter	6	11	128.237	0.057	6.5	0.0826	0.0000	OK
15 minute winter	7	11	128.151	0.051	6.4	0.0578	0.0000	OK
15 minute winter	8	11	128.124	0.074	21.0	0.0835	0.0000	OK
15 minute winter	10	10	127.262	0.047	3.4	0.0280	0.0000	OK
15 minute winter	9	11	127.068	0.068	24.3	0.0768	0.0000	OK
15 minute winter	12	11	126.521	0.146	30.9	0.1647	0.0000	OK
15 minute winter	13	12	125.045	0.141	30.4	0.0398	0.0000	OK
15 minute winter	46	10	125.240	0.068	6.2	0.0836	0.0000	OK
15 minute winter	47	10	125.197	0.064	6.1	0.0181	0.0000	OK
15 minute winter	48	11	125.116	0.068	8.0	0.0348	0.0000	OK
15 minute winter	41	10	125.438	0.078	4.5	0.0668	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 winter	14	13.000	15	5.0	0.686	0.358	0.0744	
15 minute winter	15	13.001	15a	5.0	0.812	0.365	0.0278	
15 minute winter	15a	13.002	35	5.0	0.861	0.078	0.0096	
15 minute winter	35	1.010	Tank 2	21.2	1.504	0.134	0.0768	
15 minute winter	Rodding Eye 1	14.000	8a	1.6	0.563	0.088	0.0359	
15 minute winter	8a	14.001	8b	2.1	0.649	0.103	0.0121	
15 minute winter	8b	14.002	8c	4.9	0.748	0.140	0.1445	
15 minute winter	8c	14.003	JCT1	9.8	0.990	0.551	0.1527	
15 minute winter	JCT1	14.004	8d	9.8	1.027	0.525	0.0301	
15 minute winter	8d	14.005	8e	14.4	0.958	0.351	0.1795	
15 minute winter	8e	14.006	8f	14.5	1.374	0.246	0.0416	
15 minute winter	8f	14.007	8	14.5	2.200	0.091	0.0160	
15 minute winter	5	15.000	6	3.3	0.430	0.045	0.2085	
15 minute winter	6	15.001	7	6.4	0.746	0.075	0.1139	
15 minute winter	7	15.002	8	6.4	0.608	0.046	0.0342	
15 minute winter	8	14.008	9	21.0	1.657	0.127	0.6049	
15 minute winter	10	16.000	9	3.4	0.752	0.187	0.0284	
15 minute winter	9	14.009	12	24.2	1.078	0.114	0.3953	
15 minute winter	12	14.010	13	30.4	0.952	0.429	0.5868	
15 minute winter	13	14.011	Tank 2	30.6	0.976	0.417	0.2073	
15 minute winter	46	18.000	47	6.1	0.631	0.178	0.0859	
15 minute winter	47	18.001	48	6.0	0.628	0.167	0.1697	
15 minute winter	48	18.002	49	8.0	0.506	0.200	0.2884	
15 minute winter	41	19.000	42	4.4	0.728	0.887	0.0505	

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	42	10	125.369	0.066	5.4	0.0279	0.0000	OK
15 minute winter	43	10	125.303	0.042	5.3	0.0118	0.0000	OK
15 minute winter	44	10	125.149	0.049	5.3	0.0139	0.0000	OK
15 minute winter	45	11	125.093	0.093	7.0	0.0427	0.0000	OK
15 minute winter	36	10	125.232	0.031	2.8	0.0245	0.0000	OK
15 minute summer	SWD1	1	127.315	0.000	0.0	0.0000	0.0000	OK
15 minute summer	39	1	125.083	0.000	0.0	0.0000	0.0000	OK
15 minute winter	40a	11	125.064	0.059	4.9	0.0329	0.0000	OK
15 minute winter	49	11	125.062	0.122	19.7	0.0344	0.0000	OK
15 minute winter	51	10	125.079	0.052	4.9	0.0410	0.0000	OK
15 minute winter	50	10	125.042	0.042	3.5	0.0255	0.0000	OK
15 minute winter	52	11	125.007	0.107	27.6	0.0302	0.0000	OK
180 minute winter	Tank 2	136	124.784	0.146	21.5	54.4631	0.0000	OK
180 minute winter	53	136	124.783	0.162	7.7	0.2321	0.0000	OK
180 minute winter	CW32	136	124.561	0.068	7.7	0.0192	0.0000	OK
15 minute summer	SWD2	1	127.202	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD3	1	126.768	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD5	1	125.628	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SW Headwall	1	125.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD4	1	125.796	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD6	1	125.563	0.000	0.0	0.0000	0.0000	OK
180 minute winter	CW Outfall	136	124.499	0.066	7.7	0.0000	0.0000	OK
15 minute winter	RE3	10	128.625	0.025	2.1	0.0050	0.0000	OK
15 minute winter	SW24e	10	127.640	0.040	5.1	0.0212	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 winter	42	19.001	43	5.3	0.938	0.374	0.0370	
15 minute winter	43	19.002	44	5.3	1.193	0.150	0.0184	
15 minute winter	44	19.003	45	5.3	0.661	0.223	0.0454	
15 minute winter	45	19.004	49	7.0	0.520	0.631	0.2023	
15 minute winter	36	20.000	40a	2.8	0.546	0.042	0.0704	
15 minute summer	SWD1	24.000	SWD2	0.0	0.000	0.000	0.0000	
15 minute summer	39	21.000	40a	0.0	0.000	0.000	0.0281	
15 minute winter	40a	20.001	49	4.7	0.361	0.117	0.1654	
15 minute winter	49	18.003	52	19.6	0.968	0.502	0.1430	
15 minute winter	51	22.000	52	4.8	0.404	0.118	0.2581	
15 minute winter	50	23.000	52	3.5	0.353	0.077	0.1580	
15 minute winter	52	18.004	Tank 2	27.5	1.662	0.334	0.0166	
180 minute winter	Tank 2	1.011	53	7.7	0.640	0.052	0.3848	
180 minute winter	53	ACO Q-Brake	CW32	7.7				
180 minute winter	CW32	1.013	CW Outfall	7.7	0.779	0.190	0.0971	106.7
15 minute summer	SWD2	24.001	SWD3	0.0	0.000	0.000	0.0000	
15 minute summer	SWD3	24.002	SWD4	0.0	0.000	0.000	0.0000	
15 minute summer	SWD5	24.004	SWD6	0.0	0.000	0.000	0.0000	
15 minute summer	SWD4	24.003	SWD5	0.0	0.000	0.000	0.0000	
15 minute summer	SWD6	24.005	SW Headwall	0.0	0.000	0.000	0.0000	0.0
15 minute winter	RE3	1.000	SW24e	2.1	0.748	0.059	0.0718	
15 minute winter	SW24e	1.001	24d	5.0	1.342	0.149	0.0788	

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	RE4	10	128.228	0.028	3.0	0.0077	0.0000	OK
15 minute winter	SW24a	10	127.544	0.044	4.2	0.0304	0.0000	OK
15 minute winter	SW24b	10	127.049	0.049	7.1	0.0138	0.0000	OK
15 minute winter	SW24c	11	126.954	0.079	12.4	0.0270	0.0000	OK
15 minute winter	RE5a	10	127.229	0.029	1.4	0.0051	0.0000	OK
15 minute winter	SW24f	10	127.155	0.035	2.1	0.0126	0.0000	OK
15 minute winter	RE5	10	127.175	0.040	2.7	0.0117	0.0000	OK
15 minute winter	SW24g	10	126.977	0.052	4.7	0.0148	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	RE4	3.000	SW24b	3.0	1.317	0.074	0.0502	
15 minute winter	SW24a	2.000	SW24b	4.1	0.959	0.183	0.1146	
15 minute winter	SW24b	2.001	SW24c	7.0	0.763	0.094	0.0562	
15 minute winter	SW24c	2.002	24d	12.4	1.003	0.239	0.1540	
15 minute winter	RE5a	4.000	SW24f	1.4	0.511	0.078	0.0218	
15 minute winter	SW24f	4.001	SW24g	2.0	0.682	0.111	0.0332	
15 minute winter	RE5	5.000	SW24g	2.6	0.718	0.147	0.0485	
15 minute winter	SW24g	4.002	SW24c	4.6	0.486	0.118	0.0829	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	RE2	10	128.903	0.053	6.9	0.0224	0.0000	OK
15 minute winter	SW12a	10	128.082	0.082	16.8	0.0591	0.0000	OK
15 minute winter	SW12b	10	127.673	0.073	16.5	0.0207	0.0000	OK
15 minute winter	SW12c	11	126.739	0.129	16.4	0.0365	0.0000	OK
240 minute winter	25d	236	125.663	0.143	4.0	0.2047	0.0000	OK
240 minute winter	25e	236	125.663	0.243	4.0	0.0687	0.0000	SURCHARGED
15 minute winter	24d	10	126.886	0.135	45.9	0.0503	0.0000	OK
15 minute winter	Rodding Eye 6	11	127.017	0.017	1.0	0.0010	0.0000	OK
15 minute winter	24i	10	126.827	0.027	2.4	0.0090	0.0000	OK
15 minute winter	24	11	126.415	0.122	48.3	0.1376	0.0000	OK
15 minute summer	25a	1	125.686	0.000	0.0	0.0000	0.0000	OK
240 minute winter	25b	236	125.663	0.113	0.3	0.0406	0.0000	OK
240 minute winter	25	236	125.663	0.292	12.0	0.4922	0.0000	SURCHARGED
15 minute winter	27	10	125.709	0.059	5.2	0.0312	0.0000	OK
15 minute winter	26	10	125.700	0.050	4.8	0.0257	0.0000	OK
240 minute winter	28	236	125.663	0.164	1.9	0.0463	0.0000	SURCHARGED
240 minute winter	Tank 1	236	125.663	0.379	28.0	79.1505	0.0000	SURCHARGED
240 minute winter	28a	236	125.663	0.390	2.1	0.4407	0.0000	SURCHARGED
15 minute winter	29	10	125.861	0.039	6.9	0.0259	0.0000	OK
15 minute winter	30	10	125.255	0.077	12.8	0.0337	0.0000	OK
15 minute winter	31	10	125.560	0.074	9.0	0.0485	0.0000	OK
15 minute winter	32	11	125.398	0.074	8.9	0.0210	0.0000	OK
15 minute winter	33	11	125.208	0.146	25.9	0.1889	0.0000	OK
15 minute winter	34	11	125.174	0.153	34.8	0.2200	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 winter	RE2	17.000	SW12a	6.8	0.890	0.266	0.3156	
15 minute winter	SW12a	17.001	SW12b	16.5	1.804	0.505	0.1089	
15 minute winter	SW12b	17.002	SW12c	16.4	1.342	0.480	0.3327	
15 minute winter	SW12c	17.003	12	16.4	1.080	0.920	0.1291	
240 minute winter	25d	8.000	25e	4.0	0.613	0.096	0.5140	
240 minute winter	25e	8.001	Tank 1	4.7	0.611	0.117	0.1989	
15 minute winter	24d	1.002	24	45.9	1.972	0.597	0.4902	
15 minute winter	Rodding Eye 6	6.000	24i	1.0	0.627	0.028	0.0083	
15 minute winter	24i	6.001	24	2.4	1.132	0.067	0.0211	
15 minute winter	24	1.003	25	48.6	1.843	0.576	0.9300	
15 minute summer	25a	7.000	25b	0.0	0.000	0.000	0.0175	
240 minute winter	25b	7.001	25	0.3	0.377	0.017	0.1193	
240 minute winter	25	1.004	Tank 1	22.6	1.420	0.293	0.1591	
15 minute winter	27	9.000	28	5.1	0.844	0.302	0.1002	
15 minute winter	26	10.000	28	4.8	0.877	0.223	0.0567	
240 minute winter	28	9.001	Tank 1	4.6	1.014	0.110	0.0423	
240 minute winter	Tank 1	1.005	28a	2.1	0.489	0.051	0.0677	
240 minute winter	28a	ACO Q-Brake	30	2.0				
15 minute winter	29	11.000	30	6.9	1.547	0.060	0.0447	
15 minute winter	30	1.007	33	12.6	0.538	0.148	0.4791	
15 minute winter	31	12.000	32	8.9	0.787	0.223	0.3099	
15 minute winter	32	12.001	33	8.8	0.794	0.221	0.1897	
15 minute winter	33	1.008	34	26.0	0.742	0.370	0.3475	
15 minute winter	34	1.009	35	35.1	1.076	0.496	0.9891	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	14	10	125.296	0.121	12.5	0.0860	0.0000	OK
15 minute winter	15	10	125.221	0.110	12.3	0.0311	0.0000	OK
15 minute winter	15a	10	125.165	0.081	12.2	0.0229	0.0000	OK
120 minute winter	35	112	125.029	0.132	18.1	0.1685	0.0000	OK
15 minute winter	Rodding Eye 1	10	129.798	0.048	3.8	0.0092	0.0000	OK
15 minute winter	8a	10	129.678	0.057	5.2	0.0193	0.0000	OK
15 minute winter	8b	10	129.631	0.061	12.0	0.0339	0.0000	OK
15 minute winter	8c	11	129.078	0.338	24.4	0.3053	0.0000	SURCHARGED
15 minute winter	JCT1	11	128.770	0.185	23.3	0.0000	0.0000	SURCHARGED
15 minute winter	8d	11	128.642	0.167	34.4	0.1255	0.0000	OK
15 minute winter	8e	11	128.542	0.142	34.4	0.0401	0.0000	OK
15 minute winter	8f	11	128.444	0.093	34.4	0.0265	0.0000	OK
15 minute winter	5	10	128.367	0.066	8.3	0.0943	0.0000	OK
15 minute winter	6	10	128.272	0.092	16.1	0.1325	0.0000	OK
15 minute winter	7	11	128.189	0.089	15.8	0.1011	0.0000	OK
15 minute winter	8	11	128.168	0.118	50.3	0.1329	0.0000	OK
15 minute winter	10	10	127.293	0.078	8.3	0.0468	0.0000	OK
15 minute winter	9	11	127.106	0.106	58.2	0.1203	0.0000	OK
15 minute winter	12	11	126.641	0.266	74.5	0.3005	0.0000	OK
15 minute winter	13	11	125.142	0.238	73.4	0.0674	0.0000	OK
15 minute winter	46	10	125.286	0.114	15.2	0.1403	0.0000	OK
15 minute winter	47	10	125.239	0.106	15.1	0.0300	0.0000	OK
15 minute winter	48	11	125.194	0.146	19.7	0.0752	0.0000	OK
15 minute winter	41	11	125.731	0.371	11.1	0.3169	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	14	13.000	15	12.3	0.849	0.877	0.1470	
15 minute winter	15	13.001	15a	12.2	1.034	0.893	0.0530	
15 minute winter	15a	13.002	35	12.2	1.082	0.190	0.0187	
120 minute winter	35	1.010	Tank 2	23.3	1.443	0.148	0.2340	
15 minute winter	Rodding Eye 1	14.000	8a	3.8	0.687	0.210	0.0701	
15 minute winter	8a	14.001	8b	5.1	0.796	0.246	0.0235	
15 minute winter	8b	14.002	8c	11.9	0.841	0.342	0.2638	
15 minute winter	8c	14.003	JCT1	23.3	1.324	1.312	0.2721	
15 minute winter	JCT1	14.004	8d	23.3	1.323	1.242	0.0540	
15 minute winter	8d	14.005	8e	34.4	1.184	0.836	0.3452	
15 minute winter	8e	14.006	8f	34.4	1.640	0.585	0.0818	
15 minute winter	8f	14.007	8	34.4	2.631	0.216	0.0318	
15 minute winter	5	15.000	6	8.1	0.548	0.110	0.4021	
15 minute winter	6	15.001	7	15.8	0.886	0.182	0.2354	
15 minute winter	7	15.002	8	15.9	0.741	0.114	0.0691	
15 minute winter	8	14.008	9	50.3	2.102	0.304	1.1418	
15 minute winter	10	16.000	9	8.2	0.942	0.457	0.0554	
15 minute winter	9	14.009	12	58.1	1.275	0.274	0.7617	
15 minute winter	12	14.010	13	73.4	1.226	1.036	1.0884	
15 minute winter	13	14.011	Tank 2	73.3	1.297	1.001	0.3739	
15 minute winter	46	18.000	47	15.1	0.784	0.439	0.1710	
15 minute winter	47	18.001	48	14.9	0.768	0.416	0.3977	
15 minute winter	48	18.002	49	18.7	0.616	0.467	0.6061	
15 minute winter	41	19.000	42	10.3	1.317	2.076	0.0655	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	42	12	125.425	0.121	12.6	0.0513	0.0000	OK
15 minute winter	43	12	125.379	0.118	12.4	0.0333	0.0000	OK
15 minute winter	44	12	125.357	0.257	12.0	0.0728	0.0000	SURCHARGED
15 minute winter	45	12	125.317	0.317	15.4	0.1463	0.0000	SURCHARGED
15 minute winter	36	10	125.249	0.049	6.9	0.0379	0.0000	OK
15 minute summer	SWD1	1	127.315	0.000	0.0	0.0000	0.0000	OK
15 minute winter	39	11	125.180	0.097	0.7	0.0276	0.0000	OK
15 minute winter	40a	11	125.180	0.175	12.0	0.0986	0.0000	OK
15 minute winter	49	11	125.175	0.235	44.4	0.0666	0.0000	SURCHARGED
15 minute winter	51	10	125.110	0.083	12.1	0.0654	0.0000	OK
15 minute winter	50	11	125.082	0.082	8.6	0.0496	0.0000	OK
15 minute winter	52	11	125.082	0.181	63.6	0.0514	0.0000	OK
180 minute winter	Tank 2	168	125.014	0.376	48.3	140.3342	0.0000	OK
180 minute winter	53	168	125.014	0.393	10.3	0.5624	0.0000	SURCHARGED
240 minute winter	CW32	228	124.571	0.078	10.0	0.0221	0.0000	OK
15 minute summer	SWD2	1	127.202	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD3	1	126.768	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD5	1	125.628	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SW Headwall	1	125.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD4	1	125.796	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD6	1	125.563	0.000	0.0	0.0000	0.0000	OK
240 minute winter	CW Outfall	228	124.509	0.076	10.0	0.0000	0.0000	OK
15 minute winter	RE3	10	128.639	0.039	5.2	0.0079	0.0000	OK
15 minute winter	SW24e	10	127.665	0.065	12.5	0.0346	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 winter	42	19.001	43	12.4	1.109	0.868	0.0970	
15 minute winter	43	19.002	44	12.0	1.352	0.338	0.0664	
15 minute winter	44	19.003	45	12.1	0.688	0.507	0.0980	
15 minute winter	45	19.004	49	15.5	0.880	1.395	0.2664	
15 minute winter	36	20.000	40a	6.8	0.607	0.104	0.2406	
15 minute summer	SWD1	24.000	SWD2	0.0	0.000	0.000	0.0000	
15 minute winter	39	21.000	40a	-0.7	-0.099	-0.012	0.1848	
15 minute winter	40a	20.001	49	10.6	0.443	0.266	0.4008	
15 minute winter	49	18.003	52	44.3	1.176	1.137	0.2618	
15 minute winter	51	22.000	52	12.0	0.518	0.293	0.4815	
15 minute winter	50	23.000	52	7.9	0.436	0.177	0.3180	
15 minute winter	52	18.004	Tank 2	63.3	2.043	0.768	0.0309	
180 minute winter	Tank 2	1.011	53	10.3	0.632	0.070	1.1570	
180 minute winter	53	ACO Q-Brake	CW32	10.0				
240 minute winter	CW32	1.013	CW Outfall	10.0	0.837	0.247	0.1175	221.9
15 minute summer	SWD2	24.001	SWD3	0.0	0.000	0.000	0.0000	
15 minute summer	SWD3	24.002	SWD4	0.0	0.000	0.000	0.0000	
15 minute summer	SWD5	24.004	SWD6	0.0	0.000	0.000	0.0000	
15 minute summer	SWD4	24.003	SWD5	0.0	0.000	0.000	0.0000	
15 minute summer	SWD6	24.005	SW Headwall	0.0	0.000	0.000	0.0000	0.0
15 minute winter	RE3	1.000	SW24e	5.2	0.955	0.146	0.1389	
15 minute winter	SW24e	1.001	24d	12.2	1.709	0.366	0.1522	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	RE4	10	128.244	0.044	7.3	0.0121	0.0000	OK
15 minute winter	SW24a	10	127.573	0.073	10.4	0.0503	0.0000	OK
15 minute winter	SW24b	10	127.085	0.085	17.4	0.0241	0.0000	OK
15 minute winter	SW24c	10	127.012	0.137	30.5	0.0468	0.0000	OK
15 minute winter	RE5a	10	127.247	0.047	3.5	0.0084	0.0000	OK
15 minute winter	SW24f	10	127.176	0.056	5.2	0.0205	0.0000	OK
15 minute winter	RE5	10	127.200	0.065	6.6	0.0192	0.0000	OK
15 minute winter	SW24g	10	127.024	0.099	11.6	0.0280	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 winter	RE4	3.000	SW24b	7.2	1.697	0.180	0.0950	
15 minute winter	SW24a	2.000	SW24b	10.2	1.219	0.454	0.2238	
15 minute winter	SW24b	2.001	SW24c	17.3	0.889	0.231	0.1177	
15 minute winter	SW24c	2.002	24d	30.3	1.217	0.584	0.3112	
15 minute winter	RE5a	4.000	SW24f	3.5	0.644	0.196	0.0435	
15 minute winter	SW24f	4.001	SW24g	5.1	0.871	0.275	0.0645	
15 minute winter	RE5	5.000	SW24g	6.5	0.912	0.362	0.0939	
15 minute winter	SW24g	4.002	SW24c	11.5	0.548	0.291	0.1803	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	RE2	10	128.924	0.074	12.6	0.0312	0.0000	OK
15 minute winter	SW12a	11	128.188	0.187	30.6	0.1357	0.0000	SURCHARGED
15 minute winter	SW12b	12	127.850	0.250	30.0	0.0706	0.0000	SURCHARGED
15 minute winter	SW12c	12	127.139	0.529	26.6	0.1497	0.0000	SURCHARGED
480 minute winter	25d	448	126.597	1.077	4.2	1.5444	0.2063	FLOOD
480 minute winter	25e	448	126.597	1.177	4.0	0.3331	0.4800	FLOOD
15 minute winter	24d	12	127.086	0.335	77.3	0.1252	0.0000	SURCHARGED
15 minute winter	Rodding Eye 6	10	127.024	0.024	1.9	0.0013	0.0000	OK
15 minute winter	24i	10	126.835	0.035	4.4	0.0118	0.0000	OK
480 minute winter	24	448	126.599	0.305	9.6	0.3455	0.0000	SURCHARGED
480 minute winter	25a	456	126.598	0.912	0.2	0.2580	0.0000	FLOOD RISK
480 minute winter	25b	448	126.598	1.048	0.4	0.3771	0.0000	FLOOD RISK
480 minute winter	25	448	126.598	1.226	12.5	2.0690	0.0000	FLOOD RISK
480 minute winter	27	456	126.597	0.947	1.0	0.5031	0.0000	FLOOD RISK
480 minute winter	26	456	126.597	0.947	1.0	0.4889	0.0000	FLOOD RISK
480 minute winter	28	456	126.597	1.098	3.5	0.3108	0.0000	FLOOD RISK
480 minute winter	Tank 1	448	126.597	1.313	28.2	156.8545	0.0000	FLOOD RISK
480 minute winter	28a	448	126.597	1.324	2.3	1.4976	0.0000	FLOOD RISK
15 minute winter	29	10	125.875	0.053	12.6	0.0354	0.0000	OK
240 minute winter	30	236	125.682	0.504	5.6	0.2196	0.0000	SURCHARGED
240 minute winter	31	236	125.682	0.196	3.1	0.1287	0.0000	OK
240 minute winter	32	236	125.682	0.358	3.1	0.1012	0.0000	SURCHARGED
240 minute winter	33	236	125.682	0.621	10.2	0.8007	0.0000	SURCHARGED
240 minute winter	34	236	125.682	0.661	13.4	0.9506	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	RE2	17.000	SW12a	12.4	0.981	0.486	0.5344	
15 minute winter	SW12a	17.001	SW12b	30.0	1.947	0.916	0.2090	
15 minute winter	SW12b	17.002	SW12c	26.6	1.553	0.779	0.4758	
15 minute winter	SW12c	17.003	12	27.4	1.556	1.535	0.1482	
480 minute winter	25d	8.000	25e	4.0	0.548	0.097	0.6165	
480 minute winter	25e	8.001	Tank 1	3.9	0.521	0.099	0.1989	
15 minute winter	24d	1.002	24	76.2	2.084	0.991	0.8369	
15 minute winter	Rodding Eye 6	6.000	24i	1.9	0.773	0.053	0.0126	
15 minute winter	24i	6.001	24	4.4	1.203	0.122	0.1022	
480 minute winter	24	1.003	25	9.6	1.004	0.114	1.4012	
480 minute winter	25a	7.000	25b	-0.2	-0.013	-0.013	0.2386	
480 minute winter	25b	7.001	25	-0.3	0.333	-0.018	0.1321	
480 minute winter	25	1.004	Tank 1	23.5	1.289	0.306	0.1591	
480 minute winter	27	9.000	28	1.0	0.527	0.059	0.2895	
480 minute winter	26	10.000	28	0.9	0.547	0.042	0.1833	
480 minute winter	28	9.001	Tank 1	3.8	0.832	0.091	0.0423	
480 minute winter	Tank 1	1.005	28a	2.3	0.487	0.054	0.0677	
480 minute winter	28a	ACO Q-Brake	30	2.2				
15 minute winter	29	11.000	30	12.5	1.827	0.110	0.0692	
240 minute winter	30	1.007	33	5.6	0.477	0.066	1.3963	
240 minute winter	31	12.000	32	3.1	0.588	0.078	1.0511	
240 minute winter	32	12.001	33	3.1	0.592	0.077	0.6796	
240 minute winter	33	1.008	34	10.2	0.617	0.145	0.6969	
240 minute winter	34	1.009	35	13.8	0.875	0.195	2.1369	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	14	236	125.682	0.506	4.2	0.3611	0.0000	SURCHARGED
240 minute winter	15	236	125.681	0.570	4.2	0.1614	0.0000	SURCHARGED
240 minute winter	15a	236	125.681	0.597	4.2	0.1691	0.0000	SURCHARGED
240 minute winter	35	236	125.681	0.784	19.2	1.0024	0.0000	SURCHARGED
15 minute winter	Rodding Eye 1	12	130.022	0.272	6.9	0.0527	0.0000	SURCHARGED
15 minute winter	8a	12	130.005	0.385	8.8	0.1290	0.0000	SURCHARGED
15 minute winter	8b	12	129.992	0.422	20.2	0.2365	0.0000	SURCHARGED
15 minute winter	8c	11	129.741	1.001	39.0	0.9041	0.0000	FLOOD RISK
15 minute winter	JCT1	11	128.987	0.402	36.5	0.0000	0.0000	SURCHARGED
15 minute winter	8d	11	128.793	0.318	56.3	0.2382	0.0000	SURCHARGED
15 minute winter	8e	11	128.601	0.201	56.2	0.0569	0.0000	OK
15 minute winter	8f	11	128.481	0.131	56.2	0.0370	0.0000	OK
15 minute winter	5	10	128.390	0.090	15.1	0.1279	0.0000	OK
15 minute winter	6	10	128.311	0.131	29.3	0.1885	0.0000	OK
15 minute winter	7	11	128.231	0.131	28.6	0.1481	0.0000	OK
15 minute winter	8	11	128.205	0.155	85.0	0.1754	0.0000	OK
15 minute winter	10	10	127.333	0.118	15.1	0.0710	0.0000	OK
15 minute winter	9	11	127.172	0.172	99.7	0.1942	0.0000	OK
15 minute winter	12	11	126.876	0.501	124.9	0.5665	0.0000	SURCHARGED
240 minute winter	13	236	125.681	0.777	26.4	0.2200	0.0000	SURCHARGED
240 minute winter	46	236	125.682	0.510	5.2	0.6274	0.0000	SURCHARGED
240 minute winter	47	236	125.682	0.549	5.2	0.1553	0.0000	SURCHARGED
240 minute winter	48	236	125.682	0.634	6.8	0.3257	0.0000	SURCHARGED
15 minute winter	41	11	126.480	1.120	20.1	0.9565	0.3677	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	14	13.000	15	4.2	0.654	0.299	0.1783	
240 minute winter	15	13.001	15a	4.2	0.775	0.307	0.0793	
240 minute winter	15a	13.002	35	4.8	0.824	0.074	0.0657	
240 minute winter	35	1.010	Tank 2	42.6	1.325	0.270	0.3838	
15 minute winter	Rodding Eye 1	14.000	8a	6.4	0.739	0.356	0.2245	
15 minute winter	8a	14.001	8b	10.2	0.836	0.492	0.0642	
15 minute winter	8b	14.002	8c	19.5	1.108	0.559	0.3828	
15 minute winter	8c	14.003	JCT1	36.5	2.072	2.055	0.2721	
15 minute winter	JCT1	14.004	8d	37.0	2.103	1.975	0.0553	
15 minute winter	8d	14.005	8e	56.2	1.416	1.366	0.4594	
15 minute winter	8e	14.006	8f	56.2	1.792	0.955	0.1197	
15 minute winter	8f	14.007	8	56.2	2.876	0.353	0.0474	
15 minute winter	5	15.000	6	14.8	0.631	0.201	0.6369	
15 minute winter	6	15.001	7	28.6	0.976	0.331	0.3865	
15 minute winter	7	15.002	8	28.8	0.870	0.207	0.1061	
15 minute winter	8	14.008	9	85.4	2.266	0.516	1.8684	
15 minute winter	10	16.000	9	15.0	1.069	0.832	0.0886	
15 minute winter	9	14.009	12	98.9	1.572	0.466	0.9667	
15 minute winter	12	14.010	13	124.3	1.767	1.754	1.2492	
240 minute winter	13	14.011	Tank 2	26.3	0.921	0.360	0.4660	
240 minute winter	46	18.000	47	5.2	0.609	0.151	0.3528	
240 minute winter	47	18.001	48	5.2	0.604	0.145	0.7033	
240 minute winter	48	18.002	49	6.8	0.472	0.169	0.7183	
15 minute winter	41	19.000	42	15.3	1.953	3.079	0.0655	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	42	13	125.929	0.626	19.7	0.2640	0.0000	SURCHARGED
15 minute winter	43	13	125.847	0.586	17.1	0.1658	0.0000	SURCHARGED
15 minute winter	44	12	125.784	0.684	17.0	0.1935	0.0000	SURCHARGED
15 minute winter	45	12	125.717	0.717	21.8	0.3306	0.0000	SURCHARGED
240 minute winter	36	236	125.682	0.482	2.4	0.3742	0.0000	SURCHARGED
15 minute summer	SWD1	1	127.315	0.000	0.0	0.0000	0.0000	OK
240 minute winter	39	236	125.682	0.599	0.4	0.1694	0.0000	SURCHARGED
240 minute winter	40a	236	125.682	0.677	4.2	0.3809	0.0000	SURCHARGED
240 minute winter	49	236	125.682	0.742	16.6	0.2099	0.0000	SURCHARGED
240 minute winter	51	236	125.681	0.654	4.1	0.5176	0.0000	SURCHARGED
240 minute winter	50	236	125.681	0.681	2.9	0.4122	0.0000	SURCHARGED
240 minute winter	52	236	125.681	0.781	23.2	0.2211	0.0000	SURCHARGED
240 minute winter	Tank 2	236	125.681	1.043	90.9	280.3117	0.0000	SURCHARGED
240 minute winter	53	236	125.681	1.060	10.5	1.5170	0.0000	SURCHARGED
15 minute winter	CW32	87	124.571	0.078	10.0	0.0221	0.0000	OK
15 minute summer	SWD2	1	127.202	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD3	1	126.768	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD5	1	125.628	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SW Headwall	1	125.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD4	1	125.796	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWD6	1	125.563	0.000	0.0	0.0000	0.0000	OK
960 minute summer	CW Outfall	960	124.509	0.076	10.0	0.0000	0.0000	OK
15 minute winter	RE3	10	128.653	0.053	9.4	0.0107	0.0000	OK
15 minute winter	SW24e	10	127.690	0.090	22.5	0.0478	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 winter	42	19.001	43	17.1	1.103	1.197	0.1135	
15 minute winter	43	19.002	44	17.0	1.316	0.479	0.0721	
15 minute winter	44	19.003	45	18.4	1.047	0.772	0.0980	
15 minute winter	45	19.004	49	23.0	1.307	2.073	0.2664	
240 minute winter	36	20.000	40a	2.4	0.504	0.036	0.4871	
15 minute summer	SWD1	24.000	SWD2	0.0	0.000	0.000	0.0000	
240 minute winter	39	21.000	40a	-0.4	-0.015	-0.008	0.2963	
240 minute winter	40a	20.001	49	4.0	0.318	0.099	0.4371	
240 minute winter	49	18.003	52	16.3	0.905	0.418	0.2811	
240 minute winter	51	22.000	52	4.1	0.359	0.100	0.8118	
240 minute winter	50	23.000	52	2.9	0.285	0.065	0.5340	
240 minute winter	52	18.004	Tank 2	22.7	1.558	0.275	0.0398	
240 minute winter	Tank 2	1.011	53	10.5	0.640	0.071	1.2718	
240 minute winter	53	ACO Q-Brake	CW32	10.0				
15 minute winter	CW32	1.013	CW Outfall	10.0	0.837	0.247	0.1175	139.8
15 minute summer	SWD2	24.001	SWD3	0.0	0.000	0.000	0.0000	
15 minute summer	SWD3	24.002	SWD4	0.0	0.000	0.000	0.0000	
15 minute summer	SWD5	24.004	SWD6	0.0	0.000	0.000	0.0000	
15 minute summer	SWD4	24.003	SWD5	0.0	0.000	0.000	0.0000	
15 minute summer	SWD6	24.005	SW Headwall	0.0	0.000	0.000	0.0000	0.0
15 minute winter	RE3	1.000	SW24e	9.3	1.135	0.264	0.2098	
15 minute winter	SW24e	1.001	24d	22.4	1.861	0.669	0.3042	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RE4	10	128.259	0.059	12.6	0.0163	0.0000	OK
15 minute winter	SW24a	10	127.610	0.110	18.9	0.0753	0.0000	OK
15 minute winter	SW24b	12	127.257	0.257	31.7	0.0728	0.0000	SURCHARGED
15 minute winter	SW24c	12	127.230	0.355	50.4	0.1213	0.0000	SURCHARGED
15 minute winter	RE5a	12	127.278	0.078	6.3	0.0138	0.0000	OK
15 minute winter	SW24f	12	127.272	0.152	9.4	0.0553	0.0000	SURCHARGED
15 minute winter	RE5	12	127.296	0.161	11.9	0.0471	0.0000	SURCHARGED
15 minute winter	SW24g	12	127.246	0.321	20.4	0.0908	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	RE4	3.000	SW24b	12.5	1.969	0.312	0.2462	
15 minute winter	SW24a	2.000	SW24b	18.5	1.359	0.826	0.4054	
15 minute winter	SW24b	2.001	SW24c	29.9	0.937	0.399	0.2399	
15 minute winter	SW24c	2.002	24d	49.8	1.346	0.961	0.4950	
15 minute winter	RE5a	4.000	SW24f	6.3	0.759	0.354	0.1082	
15 minute winter	SW24f	4.001	SW24g	9.0	0.928	0.487	0.1942	
15 minute winter	RE5	5.000	SW24g	11.4	0.985	0.635	0.2315	
15 minute winter	SW24g	4.002	SW24c	19.7	0.545	0.498	0.3413	