

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	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)	18.500	Minimum Backdrop Height (m)	0.200
Ratio-R	0.348	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.008	5.00	72.300	450	385029.466	402427.276	1.050
2	0.043	5.00	72.180	600	385036.329	402424.264	1.125
3	0.023	5.00	72.180	600	385033.212	402418.862	1.197
4	0.043	5.00	72.250	600	385045.238	402411.926	1.360
5	0.052	5.00	72.220	600	385049.604	402411.177	1.504
6	0.151	5.00	72.080	600	385069.672	402399.610	1.515
7	0.029	5.00	72.220	1200	385100.744	402381.683	3.220
tank1			72.130	100	385102.273	402384.141	3.140
8			72.125	1200	385105.917	402390.653	3.160
tank2			72.120	100	385109.065	402396.110	3.176
9	0.058	5.00	72.200	600	385064.868	402440.174	0.950
10	0.056	5.00	72.200	600	385091.906	402424.587	1.363
11	0.026	5.00	72.200	600	385117.103	402410.048	1.775
12			72.270	1200	385115.035	402406.462	3.366
13	0.019	5.00	72.140	450	385123.171	402384.500	1.440
14	0.024	5.00	71.890	450	385124.441	402396.419	1.242
15	0.017	5.00	71.740	450	385130.732	402412.641	1.090
16	0.000	5.00	71.910	1200	385124.905	402400.770	3.044
outfal			70.294	1200	385138.938	402397.137	1.689

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	1	3	9.210	0.600	71.250	71.058	0.192	48.0	150	5.11	50.0
2.000	2	3	6.237	0.600	71.055	70.983	0.072	86.6	225	5.07	50.0
1.001	3	4	13.883	0.600	70.983	70.890	0.093	150.0	225	5.32	50.0
1.002	4	5	4.430	0.600	70.890	70.860	0.030	150.0	225	5.39	50.0
1.003	5	6	23.163	0.600	70.716	70.613	0.103	225.0	300	5.76	50.0
1.004	6	7	35.873	0.600	70.565	70.406	0.159	225.0	300	6.33	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)
1.000	1.456	25.7	1.1	0.900	0.972	0.008	0.0
2.000	1.405	55.9	5.8	0.900	0.972	0.043	0.0
1.001	1.065	42.3	10.0	0.972	1.135	0.074	0.0
1.002	1.065	42.3	15.9	1.135	1.135	0.117	0.0
1.003	1.044	73.8	22.9	1.204	1.167	0.169	0.0
1.004	1.044	73.8	43.4	1.215	1.514	0.320	0.0

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)
1.005	7	tank1	2.895	0.600	69.000	68.990	0.010	300.0	300	6.39	50.0
1.006	tank1	8	7.462	0.600	68.990	68.965	0.025	300.0	300	6.53	50.0
1.007	8	tank2	6.300	0.600	68.965	68.944	0.021	300.0	300	6.64	50.0
1.008	tank2	12	11.950	0.600	68.944	68.904	0.040	300.0	300	6.86	50.0
3.000	9	10	31.209	0.600	71.250	70.837	0.413	75.6	225	5.35	50.0
3.001	10	11	29.091	0.600	70.837	70.425	0.412	70.6	225	5.66	50.0
3.002	11	12	4.140	0.600	70.425	70.347	0.078	53.1	225	5.70	50.0
1.009	12	16	11.394	0.600	68.904	68.866	0.038	300.0	300	7.07	50.0
4.000	13	14	11.986	0.600	70.700	70.648	0.052	230.5	150	5.30	50.0
4.001	14	16	4.376	0.600	70.648	70.593	0.055	80.0	150	5.37	50.0
5.000	15	16	13.224	0.600	70.650	70.485	0.165	80.0	150	5.20	50.0
1.010	16	outfal	14.496	0.600	68.904	68.605	0.299	48.5	150	7.24	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)
1.005	0.902	63.8	47.3	2.920	2.840	0.349	0.0
1.006	0.902	63.8	47.3	2.840	2.860	0.349	0.0
1.007	0.902	63.8	47.3	2.860	2.876	0.349	0.0
1.008	0.902	63.8	47.3	2.876	3.066	0.349	0.0
3.000	1.506	59.9	7.9	0.725	1.138	0.058	0.0
3.001	1.558	61.9	15.4	1.138	1.550	0.114	0.0
3.002	1.799	71.5	19.0	1.550	1.698	0.140	0.0
1.009	0.902	63.8	66.3	3.066	2.744	0.489	0.0
4.000	0.658	11.6	2.6	1.290	1.092	0.019	0.0
4.001	1.125	19.9	5.8	1.092	1.167	0.043	0.0
5.000	1.125	19.9	2.3	0.940	1.275	0.017	0.0
1.010	1.448	25.6	74.4	2.856	1.539	0.549	0.0

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	9.210	48.0	150	1 STANDARD	72.300	71.250	0.900	72.180	71.058	0.972
2.000	6.237	86.6	225	1 STANDARD	72.180	71.055	0.900	72.180	70.983	0.972
1.001	13.883	150.0	225	1 STANDARD	72.180	70.983	0.972	72.250	70.890	1.135
1.002	4.430	150.0	225	1 STANDARD	72.250	70.890	1.135	72.220	70.860	1.135
1.003	23.163	225.0	300	1 STANDARD	72.220	70.716	1.204	72.080	70.613	1.167
1.004	35.873	225.0	300	1 STANDARD	72.080	70.565	1.215	72.220	70.406	1.514
1.005	2.895	300.0	300	1 STANDARD	72.220	69.000	2.920	72.130	68.990	2.840
1.006	7.462	300.0	300	1 STANDARD	72.130	68.990	2.840	72.125	68.965	2.860

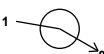
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	450	Manhole	1 STANDARD	3	600	Manhole	1 STANDARD
2.000	2	600	Manhole	1 STANDARD	3	600	Manhole	1 STANDARD
1.001	3	600	Manhole	1 STANDARD	4	600	Manhole	1 STANDARD
1.002	4	600	Manhole	1 STANDARD	5	600	Manhole	1 STANDARD
1.003	5	600	Manhole	1 STANDARD	6	600	Manhole	1 STANDARD
1.004	6	600	Manhole	1 STANDARD	7	1200	Manhole	1 STANDARD
1.005	7	1200	Manhole	1 STANDARD	tank1	100	Manhole	1 STANDARD
1.006	tank1	100	Manhole	1 STANDARD	8	1200	Manhole	1 STANDARD

Pipeline Schedule

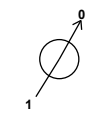
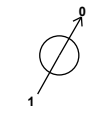
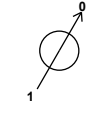
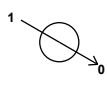
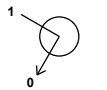
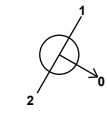
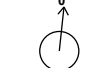
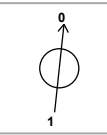
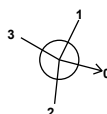
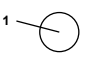
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.007	6.300	300.0	300	1 STANDARD	72.125	68.965	2.860	72.120	68.944	2.876
1.008	11.950	300.0	300	1 STANDARD	72.120	68.944	2.876	72.270	68.904	3.066
3.000	31.209	75.6	225	1 STANDARD	72.200	71.250	0.725	72.200	70.837	1.138
3.001	29.091	70.6	225	1 STANDARD	72.200	70.837	1.138	72.200	70.425	1.550
3.002	4.140	53.1	225	1 STANDARD	72.200	70.425	1.550	72.270	70.347	1.698
1.009	11.394	300.0	300	1 STANDARD	72.270	68.904	3.066	71.910	68.866	2.744
4.000	11.986	230.5	150	1 STANDARD	72.140	70.700	1.290	71.890	70.648	1.092
4.001	4.376	80.0	150	1 STANDARD	71.890	70.648	1.092	71.910	70.593	1.167
5.000	13.224	80.0	150	1 STANDARD	71.740	70.650	0.940	71.910	70.485	1.275
1.010	14.496	48.5	150	1 STANDARD	71.910	68.904	2.856	70.294	68.605	1.539

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.007	8	1200	Manhole	1 STANDARD	tank2	100	Manhole	1 STANDARD
1.008	tank2	100	Manhole	1 STANDARD	12	1200	Manhole	1 STANDARD
3.000	9	600	Manhole	1 STANDARD	10	600	Manhole	1 STANDARD
3.001	10	600	Manhole	1 STANDARD	11	600	Manhole	1 STANDARD
3.002	11	600	Manhole	1 STANDARD	12	1200	Manhole	1 STANDARD
1.009	12	1200	Manhole	1 STANDARD	16	1200	Manhole	1 STANDARD
4.000	13	450	Manhole	1 STANDARD	14	450	Manhole	1 STANDARD
4.001	14	450	Manhole	1 STANDARD	16	1200	Manhole	1 STANDARD
5.000	15	450	Manhole	1 STANDARD	16	1200	Manhole	1 STANDARD
1.010	16	1200	Manhole	1 STANDARD	outfal	1200	Manhole	1 STANDARD

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
1	385029.466	402427.276	72.300	1.050	450		0	1.000	71.250	150
2	385036.329	402424.264	72.180	1.125	600		0	2.000	71.055	225
3	385033.212	402418.862	72.180	1.197	600		1	2.000	70.983	225
							2	1.000	71.058	150
							0	1.001	70.983	225
4	385045.238	402411.926	72.250	1.360	600		1	1.001	70.890	225
							0	1.002	70.890	225
5	385049.604	402411.177	72.220	1.504	600		1	1.002	70.860	225
							0	1.003	70.716	300
6	385069.672	402399.610	72.080	1.515	600		1	1.003	70.613	300
							0	1.004	70.565	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
7	385100.744	402381.683	72.220	3.220	1200		1 1.004	70.406	300
							0 1.005	69.000	300
tank1	385102.273	402384.141	72.130	3.140	100		1 1.005	68.990	300
							0 1.006	68.990	300
8	385105.917	402390.653	72.125	3.160	1200		1 1.006	68.965	300
							0 1.007	68.965	300
tank2	385109.065	402396.110	72.120	3.176	100		1 1.007	68.944	300
							0 1.008	68.944	300
9	385064.868	402440.174	72.200	0.950	600		0 3.000	71.250	225
10	385091.906	402424.587	72.200	1.363	600		1 3.000	70.837	225
							0 3.001	70.837	225
11	385117.103	402410.048	72.200	1.775	600		1 3.001	70.425	225
							0 3.002	70.425	225
12	385115.035	402406.462	72.270	3.366	1200		1 3.002	70.347	225
							2 1.008	68.904	300
							0 1.009	68.904	300
13	385123.171	402384.500	72.140	1.440	450		0 4.000	70.700	150
14	385124.441	402396.419	71.890	1.242	450		1 4.000	70.648	150
							0 4.001	70.648	150
15	385130.732	402412.641	71.740	1.090	450		0 5.000	70.650	150
16	385124.905	402400.770	71.910	3.044	1200		1 5.000	70.485	150
							2 4.001	70.593	150
							3 1.009	68.866	300
							0 1.010	68.904	150
outfal	385138.938	402397.137	70.294	1.689	1200		1 1.010	68.605	150

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	18.500	Drain Down Time (mins)	240
Ratio-R	0.348	Additional Storage (m ³ /ha)	20.0
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

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 16 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	68.904	Product Number	CTL-SHE-0085-5000-2700-5000
Design Depth (m)	2.700	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node tank1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	68.990
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	36.0	0.0	2.400	36.0	0.0	2.401	0.0	0.0

Node tank2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	68.944
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	110.0	0.0	2.400	110.0	0.0	2.401	0.0	0.0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	71.270	0.020	1.0	0.0063	0.0000	OK
15 minute winter	2	10	71.105	0.050	5.3	0.0519	0.0000	OK
15 minute winter	3	10	71.054	0.071	9.1	0.0473	0.0000	OK
15 minute winter	4	10	70.989	0.099	14.3	0.0907	0.0000	OK
15 minute winter	5	10	70.828	0.112	20.6	0.1095	0.0000	OK
15 minute winter	6	11	70.725	0.160	39.1	0.3634	0.0000	OK
240 minute winter	7	196	69.424	0.424	9.6	0.5554	0.0000	SURCHARGED
240 minute winter	tank1	192	69.419	0.429	9.4	14.6797	0.0000	SURCHARGED
240 minute winter	8	192	69.420	0.455	5.8	0.5143	0.0000	SURCHARGED
240 minute winter	tank2	188	69.419	0.475	10.8	49.6437	0.0000	SURCHARGED
15 minute winter	9	10	71.302	0.052	7.2	0.0782	0.0000	OK
15 minute winter	10	10	70.909	0.072	14.1	0.0795	0.0000	OK
15 minute winter	11	11	70.511	0.086	16.9	0.0495	0.0000	OK
240 minute winter	12	188	69.419	0.515	5.4	0.5824	0.0000	SURCHARGED
15 minute winter	13	10	70.745	0.045	2.4	0.0192	0.0000	OK
15 minute winter	14	10	70.706	0.058	5.3	0.0315	0.0000	OK
15 minute winter	15	10	70.683	0.033	2.1	0.0157	0.0000	OK
240 minute winter	16	188	69.419	0.553	3.5	0.6252	0.0000	SURCHARGED
120 minute summer	outfal	62	69.507	0.902	3.5	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	3	1.0	0.690	0.038	0.0129	
15 minute winter	2	2.000	3	5.3	0.617	0.094	0.0536	
15 minute winter	3	1.001	4	9.0	0.655	0.212	0.1912	
15 minute winter	4	1.002	5	14.1	0.903	0.332	0.0692	
15 minute winter	5	1.003	6	20.4	0.863	0.276	0.5530	
15 minute winter	6	1.004	7	38.5	1.045	0.522	1.3218	
15 minute winter	7	1.005	tank1	41.5	1.310	0.651	0.1287	
15 minute winter	tank1	1.006	8	35.7	0.946	0.559	0.2908	
15 minute winter	8	1.007	tank2	35.2	1.530	0.552	0.2825	
15 minute winter	tank2	1.008	12	-26.6	-0.956	-0.418	0.6375	
15 minute winter	9	3.000	10	7.1	0.798	0.118	0.2786	
15 minute winter	10	3.001	11	13.8	1.113	0.222	0.3599	
15 minute winter	11	3.002	12	16.9	1.336	0.236	0.0523	
15 minute winter	12	1.009	16	-6.3	0.204	-0.099	0.7202	
15 minute winter	13	4.000	14	2.3	0.436	0.201	0.0643	
15 minute winter	14	4.001	16	5.2	0.893	0.263	0.0256	
15 minute winter	15	5.000	16	2.1	0.719	0.104	0.0379	
240 minute summer	16	1.010	outfal	3.6	0.999	0.141	0.2552	65.5

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	71.281	0.031	2.4	0.0096	0.0000	OK
15 minute winter	2	10	71.139	0.084	13.1	0.0879	0.0000	OK
15 minute winter	3	10	71.110	0.127	22.4	0.0850	0.0000	OK
15 minute winter	4	10	71.068	0.178	35.1	0.1631	0.0000	OK
15 minute winter	5	11	70.971	0.255	50.3	0.2485	0.0000	OK
15 minute winter	6	11	70.926	0.361	92.8	0.8220	0.0000	SURCHARGED
480 minute winter	7	440	70.168	1.168	13.2	1.5316	0.0000	SURCHARGED
480 minute winter	tank1	448	70.168	1.178	13.0	40.2881	0.0000	SURCHARGED
480 minute winter	8	448	70.168	1.203	8.9	1.3607	0.0000	SURCHARGED
480 minute winter	tank2	448	70.168	1.224	12.8	127.8796	0.0000	SURCHARGED
15 minute winter	9	10	71.333	0.083	17.6	0.1241	0.0000	OK
15 minute winter	10	10	70.958	0.121	34.4	0.1338	0.0000	OK
15 minute winter	11	10	70.576	0.151	41.7	0.0869	0.0000	OK
480 minute winter	12	448	70.168	1.264	5.3	1.4291	0.0000	SURCHARGED
15 minute winter	13	10	70.778	0.078	5.8	0.0331	0.0000	OK
15 minute winter	14	10	70.748	0.100	13.0	0.0548	0.0000	OK
15 minute winter	15	10	70.704	0.054	5.2	0.0255	0.0000	OK
480 minute winter	16	448	70.167	1.301	3.6	1.4719	0.0000	SURCHARGED
120 minute winter	outfal	62	69.507	0.902	3.5	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	3	2.4	0.803	0.093	0.0372	
15 minute winter	2	2.000	3	13.0	0.712	0.233	0.1144	
15 minute winter	3	1.001	4	22.0	0.765	0.519	0.3951	
15 minute winter	4	1.002	5	34.5	1.110	0.816	0.1377	
15 minute winter	5	1.003	6	48.9	0.888	0.663	1.5551	
15 minute winter	6	1.004	7	91.5	1.330	1.241	2.3275	
15 minute winter	7	1.005	tank1	98.8	1.403	1.549	0.2039	
15 minute winter	tank1	1.006	8	73.2	1.121	1.147	0.5255	
15 minute winter	8	1.007	tank2	70.8	1.655	1.111	0.4436	
15 minute winter	tank2	1.008	12	-54.3	-1.201	-0.852	0.8415	
15 minute winter	9	3.000	10	17.4	0.997	0.290	0.5457	
15 minute winter	10	3.001	11	33.8	1.346	0.545	0.7288	
15 minute winter	11	3.002	12	41.3	1.642	0.577	0.1040	
15 minute winter	12	1.009	16	-14.0	0.202	-0.220	0.8024	
15 minute winter	13	4.000	14	5.7	0.518	0.488	0.1308	
15 minute winter	14	4.001	16	12.8	1.104	0.643	0.0506	
15 minute winter	15	5.000	16	5.1	0.921	0.257	0.0734	
600 minute summer	16	1.010	outfal	3.6	0.991	0.141	0.2552	118.1

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	11	71.884	0.634	11.2	0.1972	0.0000	SURCHARGED
15 minute winter	2	11	71.898	0.843	23.6	0.8823	0.0000	FLOOD RISK
15 minute winter	3	11	71.880	0.897	35.9	0.5983	0.0000	FLOOD RISK
15 minute winter	4	11	71.800	0.910	56.4	0.8324	0.0000	SURCHARGED
15 minute winter	5	11	71.700	0.984	81.5	0.9580	0.0000	SURCHARGED
15 minute winter	6	11	71.536	0.971	158.7	2.2094	0.0000	SURCHARGED
600 minute winter	7	570	71.249	2.249	19.9	2.9483	0.0000	SURCHARGED
600 minute winter	tank1	570	71.248	2.258	19.6	77.2399	0.0000	SURCHARGED
600 minute winter	8	570	71.248	2.283	13.0	2.5817	0.0000	SURCHARGED
600 minute winter	tank2	570	71.248	2.304	20.2	240.7775	0.0000	SURCHARGED
15 minute winter	9	10	71.365	0.115	31.9	0.1733	0.0000	OK
600 minute winter	10	570	71.248	0.411	6.5	0.4541	0.0000	SURCHARGED
600 minute winter	11	570	71.248	0.823	8.0	0.4739	0.0000	SURCHARGED
600 minute winter	12	570	71.249	2.345	8.2	2.6521	0.0000	SURCHARGED
600 minute winter	13	570	71.247	0.547	1.1	0.2316	0.0000	SURCHARGED
600 minute winter	14	570	71.247	0.599	2.5	0.3272	0.0000	SURCHARGED
600 minute winter	15	570	71.247	0.597	1.0	0.2814	0.0000	SURCHARGED
600 minute winter	16	570	71.248	2.382	4.7	2.6935	0.0000	SURCHARGED
60 minute summer	outfal	62	69.507	0.902	3.5	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	3	8.8	0.798	0.344	0.1621	
15 minute winter	2	2.000	3	20.9	0.725	0.374	0.2481	
15 minute winter	3	1.001	4	38.7	0.974	0.915	0.5521	
15 minute winter	4	1.002	5	58.6	1.473	1.384	0.1762	
15 minute winter	5	1.003	6	83.1	1.181	1.127	1.6311	
15 minute winter	6	1.004	7	157.2	2.233	2.131	2.4992	
15 minute winter	7	1.005	tank1	169.3	2.404	2.654	0.2039	
15 minute winter	tank1	1.006	8	99.7	1.416	1.563	0.5255	
15 minute winter	8	1.007	tank2	97.6	1.732	1.531	0.4436	
15 minute winter	tank2	1.008	12	-95.6	-1.358	-1.499	0.8415	
15 minute winter	9	3.000	10	31.6	1.087	0.527	0.9397	
15 minute winter	10	3.001	11	58.2	1.462	0.939	1.1570	
15 minute winter	11	3.002	12	71.7	1.802	1.002	0.1622	
15 minute winter	12	1.009	16	-26.8	-0.380	-0.420	0.8024	
15 minute winter	13	4.000	14	10.1	0.573	0.868	0.2110	
15 minute winter	14	4.001	16	22.7	1.290	1.142	0.0750	
15 minute winter	15	5.000	16	9.2	1.068	0.462	0.1137	
600 minute winter	16	1.010	outfal	4.6	1.082	0.181	0.2552	169.7