Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
RWP337B	0.000	0.180	Type E	6.155	5.600	0.455	488844.585	98011.183
RE337A	0.011	0.180	Type E	6.126	5.550	0.476	488845.238	98010.325
RWP335D	0.000	0.180	Type E	6.150	5.600	0.450	488827.981	98003.720
PS227	0.000	0.250	250	6.115	5.425	0.590	488834.469	98005.536
RE334A	0.011	0.180	Type E	6.131	5.600	0.431	488822.155	98000.485
RWP334A	0.000	0.180	Type E	6.156	5.600	0.456	488819.025	98009.972
PS222	0.000	0.450	450	6.174	5.450	0.624	488817.550	98010.698
PS223	0.000	0.450	Type E	6.195	5.300	0.795	488829.675	98016.144
RWP337A	0.000	0.180	Type E	6.193	5.600	0.493	488840.783	98019.676
RE337B	0.000	0.180	Type E	6.254	5.550	0.604	488840.168	98020.945
PS224	0.000	0.450	450	6.275	5.250	0.925	488834.055	98018.201
S104	0.022	1.350	Unknown	6.177	5.425	0.602	488828.152	98024.425
S80	0.000	1.350	Type C	5.968	4.475	1.268	488829.449	98028.854
S81	0.014	1.350	Type C	5.838	4.415	1.198	488839.135	98032.876
S107	0.005	1.350	Unknown	6.044	5.300	0.594	488847.679	98024.132
S105	0.004	1.350	Unknown	5.971	5.221	0.600	488858.804	98020.597
S106	0.039	1.350	Type C	5.684	4.309	1.150	488860.519	98026.652
S108	0.005	1.350	Unknown	5.799	5.050	0.599	488891.377	98011.425
S82	0.000	1.350	Type C	5.555	4.118	1.212	488901.714	98014.568
S83	0.000	1.350	Type C	5.648	4.000	1.423	488907.709	98001.792
S153	0.030	0.000	Type C	4.900	3.950	0.650	488923.508	98032.931
S154	0.000	1.350	Type C	5.120	3.930	0.890	488921.433	98026.452
S152	0.000	1.350	Type C	5.543	3.850	1.393	488913.945	98000.039
S150	0.000	1.350	Type C	5.344	3.725	1.319	488903.692	97962.274
RWP338B	0.000	0.180	Type E	5.999	5.450	0.449	488856.014	98004.451
RE338A	0.019	0.180	Type E	5.986	5.400	0.486	488855.820	98003.415
DF341	0.003	0.180	Type E	5.904	5.250	0.504	488875.360	97997.476
PS336	0.000	0.450	450	5.963	5.100	0.713	488873.716	97998.096
DF338	0.010	0.180	Type E	6.012	5.360	0.502	488854.780	98005.829
PS31	0.000	0.450	450	6.131	5.175	0.806	488857.494	98014.907
PS32	0.006	0.450	450	6.087	4.950	0.987	488878.567	98008.755
RWP342B	0.000	0.180	Type E	5.859	5.300	0.459	488899.791	98001.589
PS33	0.000	0.450	450	5.934	4.700	1.084	488900.795	98002.193
S130	0.000	1.350	Type C	5.695	4.031	1.439	488905.777	97996.977
RWP343A	0.000	0.180	Type E	5.850	5.300	0.450	488889.265	97998.611
RE343B	0.010	0.180	Type E	5.845	5.275	0.470	488888.139	97998.445
PS232	0.000	0.450	450	5.869	5.150	0.619	488885.371	97987.880
RE343A	0.000	0.180	Type E	5.964	5.300	0.564	488899.697	97995.686
RWP344D	0.000	0.180	Type E	5.868	5.300	0.468	488895.615	97986.088
PS233	0.000	0.450	450	5.971	5.000	0.871	488896.703	97985.072
DF344	0.007	0.180	Type E	5.841	5.250	0.491	488885.119	97985.925
RE345A	0.000	0.180	Type E	5.948	5.250	0.598	488893.945	97975.440
PS29	0.000	0.450	450	5.937	4.850	0.937	488895.785	97982.466
S129	0.067	1.200	Type B	5.711	3.957	1.529	488901.469	97980.888
RE345B	0.014	0.180	Type E	5.814	5.250	0.464	488882.222	97983.287
PS243	0.000	0.450	450	5.809	5.100	0.609	488878.738	97970.766
DF347	0.010	0.180	Type E	5.641	4.975	0.516	488878.391	97965.277
PS240	0.000	0.180	Type E	5.919	5.250	0.569	488893.173	97971.700
PS27	0.003	0.450	450	5.814	4.850	0.814	488890.104	97961.350
DF348	0.000	0.180	Type E	5.618	4.950	0.518	488877.194	97961.072
RE348A	0.000	0.180	Type E	5.768	5.075	0.593	488887.335	97951.981
RWP348B	0.000	0.180	Type E	5.665	5.075	0.490	488887.018	97957.342
PS25	0.000	0.450	450	5.772	4.850	0.772	488888.901	97957.937
S128	0.000	1.350	Type C	5.545	3.844	1.476	488894.893	97956.335
RE348B	0.014	0.180	Type E	5.611	5.075	0.436	488877.278	97959.829
PS238	0.000	0.180	Type E	5.651	4.900	0.651	488873.636	97946.356
PS239	0.000	0.450	450	5.628	4.700	0.828	488882.688	97943.907
RE349A	0.000	0.180	Type E	5.753	5.075	0.578	488886.029	97948.473
DF350	0.004	1.350	Type E	5.652	5.000	0.502	488878.927	97943.078
PS200	0.000	0.675	Type E	5.667	4.480	1.037	488884.262	97941.689
S109(D)	0.004	1.350	Unknown	5.480	4.725	0.605	488874.685	97928.883
S92	0.038	1.350	Type C	5.401	3.675	1.426	488889.693	97936.914
S93	0.000	1.350	Type C	5.290	3.625	1.365	488885.601	97921.821
S86	0.000	1.350	Type C	4.900	3.600	1.000	488892.132	97920.086

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
S87	0.000	0.000	Type C	4.600	3.550	0.750	488888.319	97906.120
RWP301A	0.000	0.180	Type E	6.205	5.700	0.405	488775.724	98029.997
RE301A	0.000	0.180	Type E	6.207	5.675	0.432	488775.683	98030.780
PS363	0.011	0.250	250	6.123	5.570	0.453	488785.268	98035.014
RWP301C	0.000	0.180	Type E	6.200	5.650	0.450	488777.958	98024.839
RE302A	0.000	0.180	Type E	6.186	5.600	0.486	488777.470	98024.357
RWP302B	0.000	0.180	Type E	6.200	5.650	0.450	488780.105	98020.214
PS365	0.000	0.250	250	6.194	5.540	0.554	488779.786	98019.301
DF302	0.011	1.350	Type E	6.151	5.500	0.501	488786.683	98019.483
PS362	0.000	0.450	450	6.330	5.370	0.810	488791.289	98021.590
S69	0.054	1.350	Type C	6.258	4.700	1.333	488803.735	98025.590
S98	0.057	1.350	Type C	6.026	4.500	1.226	488817.737	97994.691
RE333B	0.000	0.180	Type E	5.683	5.150	0.433	488841.796	97994.495
PS273	0.000	0.450	450	5.655	4.700	0.855	488848.706	97979.256
RWP333B	0.000	0.180	Type E	5.699	5.150	0.449	488834.359	97991.524
RE333A	0.000	0.180	Type E	5.765	5.100	0.565	488829.558	97990.015
DF330	0.010	1.350	Type E	5.594	4.925	0.519	488844.510	97973.387
DF331	0.005	1.350	Type E	5.746	5.100	0.496	488833.789	97976.239
PS274	0.000	0.450	450	5.719	4.480	1.089	488836.797	97973.920
S70	0.068	1.350	Type C	5.738	4.180	1.183	488830.547	97966.615
RE309B	0.000	0.180	Type E	5.912	5.350	0.462	488807.208	97961.975
RWP312B	0.000	0.180	Type E	5.926	5.375	0.451	488815.258	97946.010
PS260	0.000	0.450	Type E	5.911	5.155	0.656	488814.902	97944.611
RE309A	0.000	0.180	Type E	6.049	5.350	0.599	488818.135	97966.574
RWP312A	0.000	0.180	Type E	6.017	5.375	0.542	488823.828	97949.710
PS261	0.000	0.450	Type E	6.006	4.985	0.871	488825.799	97949.438
PS206	0.004	1.350	Type E	5.594	4.950	0.494	488841.115	97961.533
S117	0.018	1.350	Type C	5.647	4.080	1.192	488836.108	97954.004
RE330B	0.010	0.180	Type E	5.459	4.870	0.489	488850.942	97971.422
PS20	0.000	0.450	450	5.470	4.675	0.695	488858.894	97954.250
RWP330A	0.000	0.180	Type E	5.625	4.925	0.600	488842.564	97965.168
RE330A	0.011	0.180	Type E	5.615	4.900	0.615	488841.076	97964.545
S115	0.004	1.350	Type E	5.596	4.900	0.546	488843.773	97951.867
PS23	0.000	0.450	450	5.634	4.500	0.984	488847.905	97949.340
RWP325C	0.000	0.180	Type E	5.474	4.925	0.449	488857.092	97941.689
ACO325	0.000	0.180	Type E	5.445	4.895	0.450	488858.800	97942.129
RE325A	0.000	0.180	Type E	5.458	4.870	0.488	488858.154	97941.672
PS16	0.000	0.450	450	5.516	4.800	0.616	488855.600	97947.083
RWP325B	0.000	0.180	Type E	5.626	4.925	0.601	488848.519	97937.996
RE325B	0.014	0.180	Type E	5.627	4.850	0.677	488847.814	97937.107
DF326	0.007	1.350	Type E	5.568	4.850	0.568	488849.875	97946.765
PS10	0.000	0.450	450	5.582	4.400	1.032	488845.305	97942.741
S114	0.018	1.350	Type C	5.552	3.985	1.192	488841.902	97941.144
YG313	0.019	0.180	Type E	5.792	5.150	0.492	488816.337	97940.778
YG316	0.000	0.180	Type E	5.681	5.080	0.451	488824.885	97921.096
PS257	0.005	0.450	450	5.655	4.780	0.725	488825.637	97920.659
RE313A	0.000	0.180	Type E	5.896	5.300	0.496	488828.175	97944.387
RE318B	0.000	0.180	Type E	5.650	5.025	0.525	488842.361	97913.226
PS258	0.000	0.450	450	5.803	4.695	0.958	488836.709	97925.403
RWP324A	0.000	0.180	Type E	5.474	4.925	0.449	488858.945	97937.570
RE324A	0.000	0.180	Type E	5.477	4.900	0.477	488859.679	97937.628
PS5	0.000	0.450	450	5.469	4.700	0.669	488861.790	97933.171
DF324	0.007	1.350	Type E	5.376	4.725	0.501	488863.021	97929.497
PS6	0.000	0.450	450	5.584	4.500	0.934	488851.626	97928.647
S71	0.072	1.350	Type C	5.447	3.890	1.182	488848.269	97927.014
RE319A	0.000	0.180	Type E	5.535	5.000	0.435	488836.718	97906.833
GY319	0.004	0.180	Type E	5.387	4.785	0.452	488839.698	97896.016
PS285	0.000	0.450	Type E	5.523	4.750	0.623	488841.619	97899.482
RE319B	0.006	0.180	Type E	5.627	4.900	0.627	488844.252	97911.493
RWP319D	0.000	0.180	Type E	5.563	5.000	0.463	488847.190	97904.027
PS286	0.006	0.450	450	5.557	4.650	0.757	488849.019	97904.226
RE320A	0.000	0.180	Type E	5.386	4.775	0.511	488842.916	97897.054
GY320	0.004	0.180	Type E	5.254	4.650	0.454	488846.045	97886.120
PS288	0.000	0.450	Type E	5.313	4.635	0.528	488847.746	97889.632
RWP320D	0.000	0.180	Type E	5.339	4.800	0.439	488853.383	97894.296
PS283	0.000	0.450	450	5.409	4.550	0.709	488855.322	97894.617
GY279	0.000	0.180	Type E	5.218	4.615	0.453	488856.115	97882.445
S72	0.000	1.350	Type C	5.146	3.650	1.121	488866.406	97887.037

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
S164	0.037	0.000	Type C	4.600	3.600	0.625	488878.973	97887.524
S163	0.000	0.000	Type C	4.600	3.500	0.725	488882.512	97886.597
S161	0.000	1.350	Type C	4.600	3.450	0.925	488886.385	97885.076
S162	0.000	0.000	Type C	3.606	3.300	0.081	488888.992	97883.385

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)
1.000	RWP337B	5.600	RE337A	5.550	Circ	0.1mØ	1.078	21.6	0.600	0.455
1.001	RE337A	5.550	PS227	5.425	Circ	0.1mØ	11.786	94.3	0.600	0.476
2.000	RWP335D	5.600	PS227	5.425	Circ	0.1mØ	6.737	38.5	0.600	0.450
1.002	PS227	5.425	PS223	5.300	Circ	0.1mØ	11.641	93.1	0.600	0.590
3.000	RE334A	5.600	PS222	5.450	Circ	0.1mØ	11.204	74.7	0.600	0.431
4.000	RWP334A	5.600	PS222	5.450	Circ	0.1mØ	1.644	11.0	0.600	0.456
3.001	PS222	5.450	PS223	5.300	Circ	0.1mØ	13.292	88.6	0.600	0.624
1.003	PS223	5.300	PS224	5.250	Circ	0.1mØ	4.839	96.8	0.600	0.795
5.000	RWP337A	5.600	RE337B	5.550	Circ	0.1mØ	1.410	28.2	0.600	0.493
5.001	RE337B	5.550	PS224	5.250	Circ	0.1mØ	6.700	22.3	0.600	0.604
1.004	PS224	5.250	S80	4.600	Circ	0.1mØ	11.605	17.9	0.600	0.925
6.000	S104	5.425	S80	4.550	Circ	0.15mØ	4.615	5.3	0.600	0.602
1.005	S80	4.475	S81	4.415	Circ	0.225mØ	10.488	174.5	0.600	1.268
1.006	S81	4.415	S106	4.309	Circ	0.225mØ	22.271	209.1	0.600	1.198
7.000	S107	5.300	S106	4.389	Circ	0.15mØ	13.085	14.4	0.600	0.594
8.000	S105	5.221	S106	4.389	Circ	0.15mØ	6.293	7.6	0.600	0.600
1.007	S106	4.309	S82	4.118	Circ	0.225mØ	42.930	225.3	0.600	1.150
9.000	S108	5.050	S82	4.193	Circ	0.15mØ	10.804	12.6	0.600	0.599
1.008	S82	4.118	S83	4.000	Circ	0.225mØ	14.113	119.6	0.600	1.212
1.009	S83	4.000	S152	3.925	Circ	0.225mØ	6.478	86.4	0.600	1.423
10.000	S153	3.950	S154	3.930	Circ	0.3mØ	6.803	340.2	0.600	0.650
10.001	S154	3.930	S152	3.850	Circ	0.3mØ	27.453	343.2	0.600	0.890
1.010	S152	3.850	S150	3.725	Circ	0.3mØ	39.132	313.1	0.600	1.393
1.011	S150	3.725	S86	3.600	Circ	0.3mØ	43.744	350.0	0.600	1.319
11.000	RWP338B	5.450	RE338A	5.400	Circ	0.1mØ	1.054	21.1	0.600	0.449
11.001	RE338A	5.400	PS336	5.150	Circ	0.1mØ	18.671	74.7	0.600	0.486
12.000	DF341	5.250	PS336	5.100	Circ	0.15mØ	1.757	11.7	0.600	0.504
11.002	PS336	5.100	PS32	4.950	Circ	0.15mØ	11.711	78.1	0.600	0.713
13.000	DF338	5.360	PS31	5.175	Circ	0.15mØ	9.475	51.2	0.600	0.502
13.001	PS31	5.175	PS32	4.950	Circ	0.15mØ	21.953	97.6	0.600	0.806
11.003	PS32	4.950	PS33	4.700	Circ	0.15mØ	23.177	92.7	0.600	0.987
14.000	RWP342B	5.300	PS33	4.750	Circ	0.1mØ	1.172	2.1	0.600	0.459
11.004	PS33	4.700	S130	4.581	Circ	0.15mØ	7.212	60.6	0.600	1.084
11.005	S130	4.031	S129	3.957	Circ	0.225mØ	16.656	225.0	0.600	1.439
15.000	RWP343A	5.300	RE343B	5.275	Circ	0.1mØ	1.138	45.5	0.600	0.450
15.001	RE343B	5.275	PS232	5.150	Circ	0.1mØ	10.922	87.4	0.600	0.470
15.002	PS232	5.150	PS233	5.000	Circ	0.1mØ	11.675	77.8	0.600	0.619
16.000	RE343A	5.300	PS233	5.000	Circ	0.1mØ	11.028	36.8	0.600	0.564
17.000	RWP344D	5.300	PS233	5.000	Circ	0.1mØ	1.488	5.0	0.600	0.468
15.003	PS233	5.000	PS29	4.900	Circ	0.1mØ	2.763	27.6	0.600	0.871
18.000	DF344	5.250	PS29	4.900	Circ	0.1mØ	11.213	32.0	0.600	0.491
19.000	RE345A	5.250	PS29	4.900	Circ	0.1mØ	7.263	20.8	0.600	0.598
15.004	PS29	4.850	S129	4.600	Circ	0.15mØ	5.899	23.6	0.600	0.937
11.006	S129	3.957	S128	3.844	Circ	0.225mØ	25.418	225.0	0.600	1.529
20.000	RE345B	5.250	PS243	5.100	Circ	0.1mØ	12.997	86.6	0.600	0.464
20.001	PS243	5.100	PS27	4.900	Circ	0.1mØ	14.759	73.8	0.600	0.609
21.000	DF347	4.975	PS27	4.850	Circ	0.15mØ	12.354	98.8	0.600	0.516
22.000	PS240	5.250	PS27	4.900	Circ	0.1mØ	10.795	30.8	0.600	0.569
20.002	PS27	4.850	S128	4.713	Circ	0.15mØ	6.934	50.6	0.600	0.814
23.000	DF348	4.950	PS25	4.850	Circ	0.15mØ	12.120	121.2	0.600	0.518
24.000	RE348A	5.075	PS25	4.900	Circ	0.1mØ	6.159	35.2	0.600	0.593
25.000	RWP348B	5.075	PS25	4.900	Circ	0.1mØ	1.975	11.3	0.600	0.490
23.001	PS25	4.850	S128	4.713	Circ	0.15mØ	6.202	45.3	0.600	0.772
11.007	S128	3.844	S92	3.750	Circ	0.225mØ	20.105	214.4	0.600	1.476
26.000	RE348B	5.075	PS238	4.900	Circ	0.1mØ	13.956	79.7	0.600	0.436
26.001	PS238	4.900	PS239	4.700	Circ	0.1mØ	9.377	46.9	0.600	0.651
26.002	PS239	4.700	PS200	4.530	Circ	0.1mØ	2.719	16.0	0.600	0.828

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)
27.000	RE349A	5.075	PS200	4.530	Circ	0.1mØ	7.010	12.9	0.600	0.578
28.000	DF350	5.000	PS200	4.480	Circ	0.15mØ	5.513	10.6	0.600	0.502
26.003	PS200	4.480	S92	4.325	Circ	0.15mØ	7.231	46.8	0.600	1.037
29.000	S109(D)	4.725	S92	4.325	Circ	0.15mØ	17.022	42.6	0.600	0.605
11.008	S92	3.675	S93	3.625	Circ	0.3mØ	15.638	312.8	0.600	1.426
11.009	S93	3.625	S86	3.600	Circ	0.3mØ	6.758	270.3	0.600	1.365
1.012	S86	3.600	S87	3.550	Circ	0.3mØ	14.477	289.5	0.600	1.000
1.013	S87	3.550	S163	3.500	Circ	0.375mØ	20.368	407.4	0.600	0.675
30.000	RWP301A	5.700	RE301A	5.675	Circ	0.1mØ	0.784	31.4	0.600	0.405
30.001	RE301A	5.675	PS363	5.570	Circ	0.1mØ	10.478	99.8	0.600	0.432
30.002	PS363	5.570	PS362	5.420	Circ	0.1mØ	14.712	98.1	0.600	0.453
31.000	RWP301C	5.650	RE302A	5.600	Circ	0.1mØ	0.686	13.7	0.600	0.450
31.001	RE302A	5.600	PS365	5.540	Circ	0.1mØ	5.562	92.7	0.600	0.486
32.000	RWP302B	5.650	PS365	5.540	Circ	0.1mØ	0.967	8.8	0.600	0.450
31.002	PS365	5.540	PS362	5.420	Circ	0.1mØ	11.728	97.7	0.600	0.554
33.000	DF302	5.500	PS362	5.370	Circ	0.15mØ	5.065	39.0	0.600	0.501
30.003	PS362	5.370	S69	5.275	Circ	0.15mØ	13.074	137.6	0.600	0.810
30.004	S69	4.700	S98	4.575	Circ	0.225mØ	33.924	271.4	0.600	1.333
30.005	S98	4.500	S70	4.255	Circ	0.3mØ	30.860	126.0	0.600	1.226
34.000	RE333B	5.150	PS273	4.700	Circ	0.1mØ	16.732	37.2	0.600	0.433
34.001	PS273	4.700	PS274	4.530	Circ	0.1mØ	13.050	76.8	0.600	0.855
35.000	RWP333B	5.150	RE333A	5.100	Circ	0.1mØ	5.033	100.7	0.600	0.449
35.001	RE333A	5.100	PS274	4.530	Circ	0.1mØ	17.647	31.0	0.600	0.565
36.000	DF330	4.925	PS274	4.480	Circ	0.15mØ	7.731	17.4	0.600	0.519
37.000	DF331	5.100	PS274	4.480	Circ	0.15mØ	3.798	6.1	0.600	0.496
34.002	PS274	4.480	S70	4.405	Circ	0.15mØ	9.614	128.2	0.600	1.089
30.006	S70	4.180	S117	4.080	Circ	0.375mØ	13.783	137.8	0.600	1.183
38.000	RE309B	5.350	PS260	5.155	Circ	0.1mØ	18.992	97.4	0.600	0.462
39.000	RWP312B	5.375	PS260	5.155	Circ	0.1mØ	1.444	6.6	0.600	0.451
38.001	PS260	5.155	PS261	5.035	Circ	0.1mØ	11.918	99.3	0.600	0.656
40.000	RE309A	5.350	PS261	5.035	Circ	0.1mØ	18.772	59.6	0.600	0.599
41.000	RWP312A	5.375	PS261	5.035	Circ	0.1mØ	1.990	5.9	0.600	0.542
38.002	PS261	4.985	S117	4.905	Circ	0.15mØ	11.276	140.9	0.600	0.871
42.000	PS206	4.950	S117	4.305	Circ	0.15mØ	9.041	14.0	0.600	0.494
30.007	S117	4.080	S114	3.985	Circ	0.375mØ	14.105	148.5	0.600	1.192
43.000	RE330B	4.870	PS20	4.675	Circ	0.1mØ	18.924	97.0	0.600	0.489
43.001	PS20	4.675	PS23	4.550	Circ	0.1mØ	12.036	96.3	0.600	0.695
44.000	RWP330A	4.925	RE330A	4.900	Circ	0.1mØ	1.613	64.5	0.600	0.600
44.001	RE330A	4.900	PS23	4.550	Circ	0.1mØ	16.668	47.6	0.600	0.615
45.000	S115	4.900	PS23	4.500	Circ	0.15mØ	4.844	12.1	0.600	0.546
43.002	PS23	4.500	PS10	4.400	Circ	0.15mØ	7.093	70.9	0.600	0.984
46.000	RWP325C	4.925	RE325A	4.870	Circ	0.1mØ	1.062	19.3	0.600	0.449
47.000	ACO325	4.895	RE325A	4.870	Circ	0.1mØ	0.792	31.7	0.600	0.450
46.001	RE325A	4.870	PS16	4.800	Circ	0.1mØ	5.983	85.5	0.600	0.488
46.002	PS16	4.800	PS10	4.450	Circ	0.1mØ	11.173	31.9	0.600	0.616
48.000	RWP325B	4.925	RE325B	4.850	Circ	0.1mØ	1.135	15.1	0.600	0.601
48.001	RE325B	4.850	PS10	4.450	Circ	0.1mØ	6.167	15.4	0.600	0.677
49.000	DF326	4.850	PS10	4.400	Circ	0.15mØ	6.089	13.5	0.600	0.568
43.003	PS10	4.400	S114	4.210	Circ	0.15mØ	3.759	19.8	0.600	1.032
30.008	S114	3.985	S71	3.890	Circ	0.375mØ	15.499	163.1	0.600	1.192
50.000	YG313	5.150	PS257	4.780	Circ	0.15mØ	22.165	59.9	0.600	0.492
51.000	YG316	5.080	PS257	4.780	Circ	0.15mØ	0.871	2.9	0.600	0.451
50.001	PS257	4.780	PS258	4.695	Circ	0.15mØ	12.045	141.7	0.600	0.725
52.000	RE313A	5.300	PS258	4.745	Circ	0.1mØ	20.813	37.5	0.600	0.496
53.000	RE318B	5.025	PS258	4.745	Circ	0.1mØ	13.425	47.9	0.600	0.525
50.002	PS258	4.695	S71	4.615	Circ	0.15mØ	11.672	145.9	0.600	0.958
54.000	RWP324A	4.925	RE324A	4.900	Circ	0.1mØ	0.736	29.4	0.600	0.449
54.001	RE324A	4.900	PS5	4.700	Circ	0.1mØ	4.931	24.7	0.600	0.477
54.002	PS5	4.700	PS6	4.550	Circ	0.1mØ	11.125	74.2	0.600	0.669
55.000	DF324	4.725	PS6	4.500	Circ	0.15mØ	11.426	50.8	0.600	0.501
54.003	PS6	4.500	S71	4.115	Circ	0.15mØ	3.733	9.7	0.600	0.934
30.009	S71	3.890	S72	3.650	Circ	0.375mØ	43.898	182.9	0.600	1.182
56.000	RE319A	5.000	PS285	4.800	Circ	0.1mØ	8.835	44.2	0.600	0.435
57.000	GY319	4.785	PS285	4.750	Circ	0.15mØ	3.962	113.2	0.600	0.452
56.001	PS285	4.750	PS286	4.650	Circ	0.15mØ	8.790	87.9	0.600	0.623
58.000	RE319B	4.900	PS286	4.700	Circ	0.1mØ	8.691	43.5	0.600	0.627
59.000	RWP319D	5.000	PS286	4.700	Circ	0.1mØ	1.840	6.1	0.600	0.463
56.002	PS286	4.650	PS283	4.550	Circ	0.15mØ	11.492	114.9	0.600	0.757

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)
60.000	RE320A	4.775	PS288	4.685	Circ	0.1mØ	8.855	98.4	0.600	0.511
61.000	GY320	4.650	PS288	4.635	Circ	0.15mØ	3.902	260.2	0.600	0.454
60.001	PS288	4.635	PS283	4.550	Circ	0.15mØ	9.069	106.7	0.600	0.528
62.000	RWP320D	4.800	PS283	4.600	Circ	0.1mØ	1.966	9.8	0.600	0.439
56.003	PS283	4.550	S72	4.375	Circ	0.15mØ	13.427	76.7	0.600	0.709
63.000	GY279	4.615	S72	4.375	Circ	0.15mØ	11.269	47.0	0.600	0.453
30.010	S72	3.650	S164	3.600	Circ	0.375mØ	12.577	251.5	0.600	1.121
30.011	S164	3.600	S163	3.500	Circ	0.375mØ	3.657	36.6	0.600	0.625
1.014	S163	3.500	S161	3.450	Circ	0.375mØ	4.161	83.2	0.600	0.725
1.015	S161	3.450	S162	3.300	Circ	0.225mØ	3.108	20.7	0.600	0.925

Outfall Details

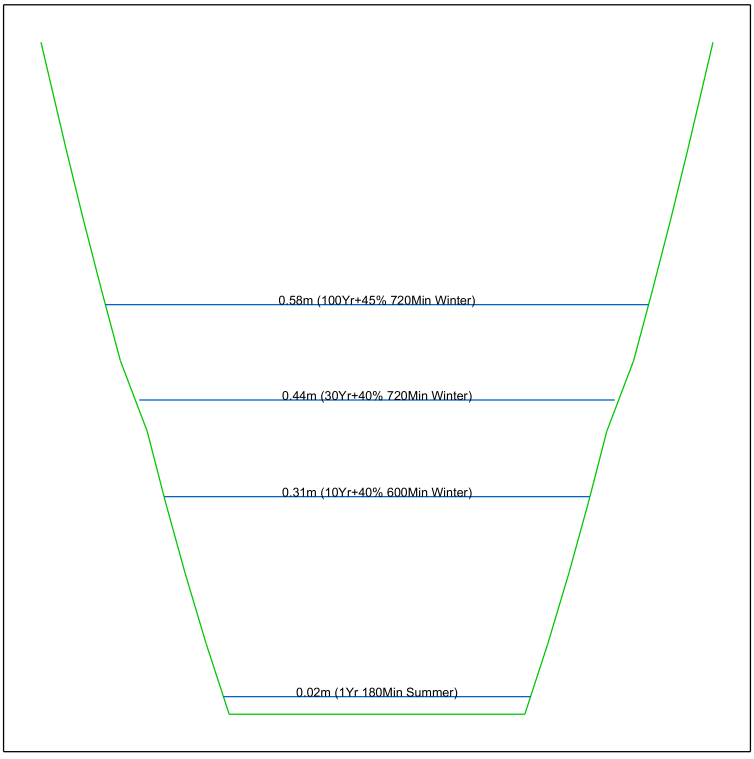
Outfall Manhole S162 : Free Discharge

Flow Control Details

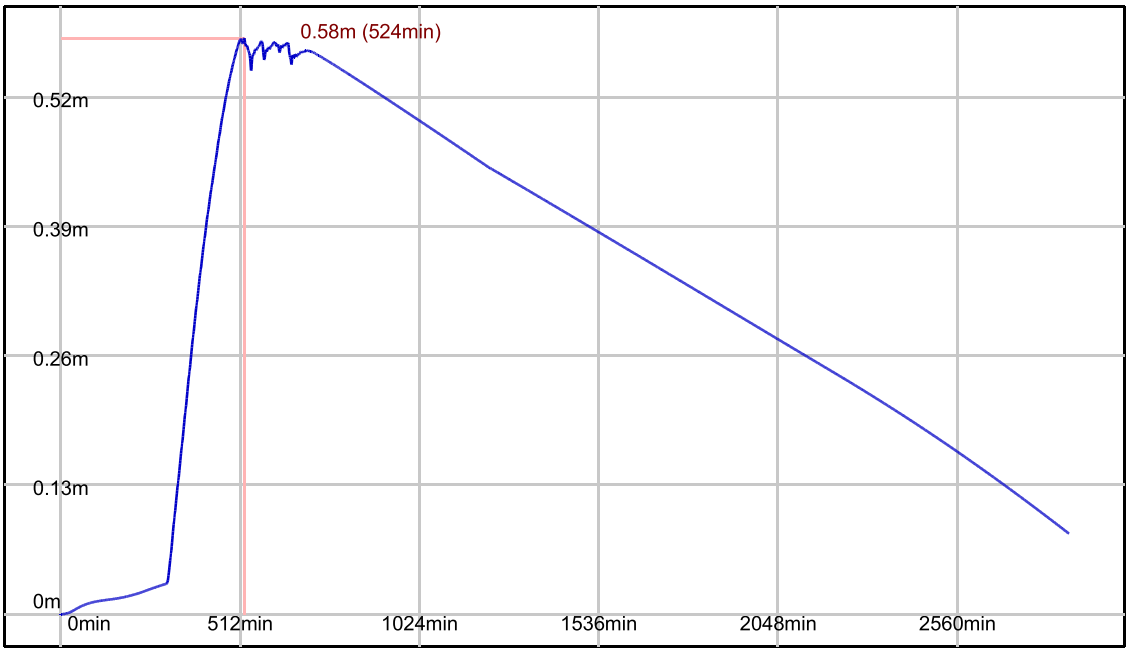
Pond Structure at Manhole S153

Pond Invert (m)	Max Depth (m)	Volume To Water Level (m3)	Water Level (m)	Freeboard (m)	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.950	0.950	119.540	4.750	0.150	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S153



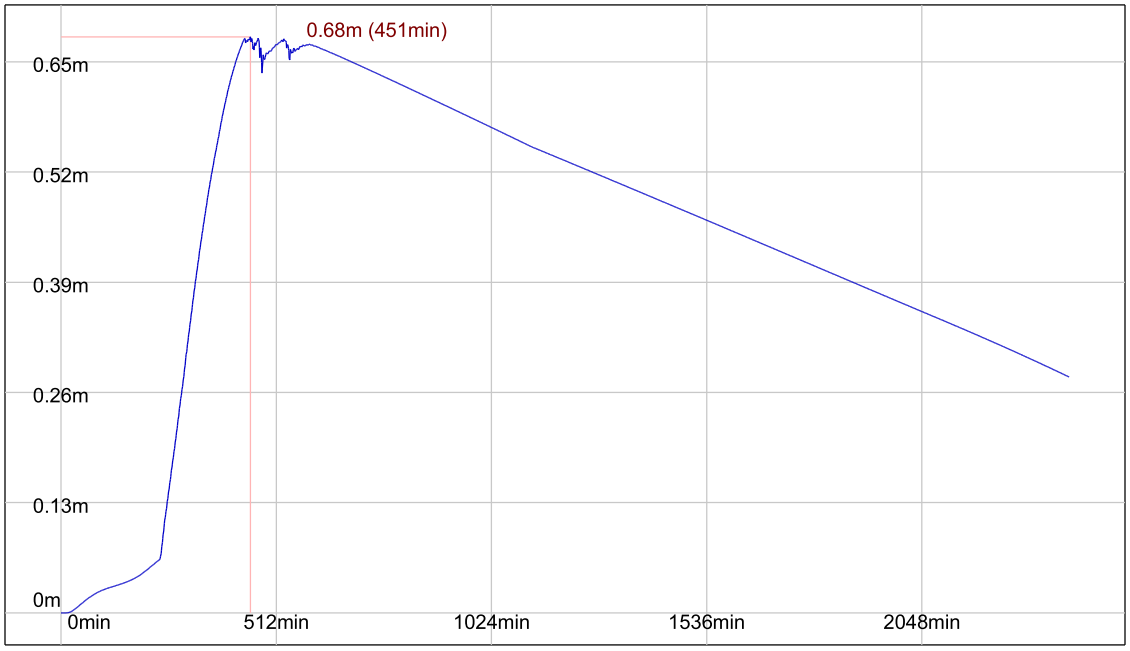
Pond at S153 (100Yr+45% 720Min Winter)



Tank Structure at Manhole S152

Tank Invert (m)	Tank Height (m)	Void Ratio (%)	Area (m2)	Effective Area (m2) Area x Void Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.850	0.800	95.00	119.000	113.050	90.440	0.00000000	0.00000000	2.00

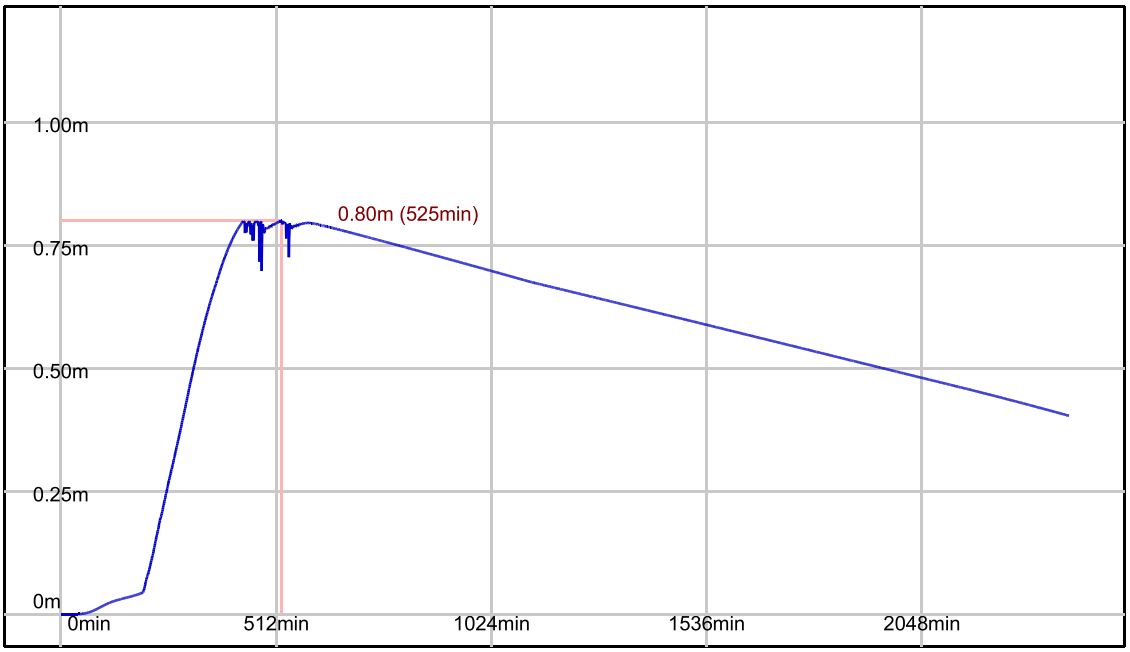
Tank at S152 (100Yr+45% 600Min Winter)



Tank Structure at Manhole S150

Tank Invert (m)	Tank Height (m)	Void Ratio (%)	Area (m2)	Effective Area (m2) Area x Void Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.725	0.800	95.00	85.500	81.225	64.980	0.00000000	0.00000000	2.00

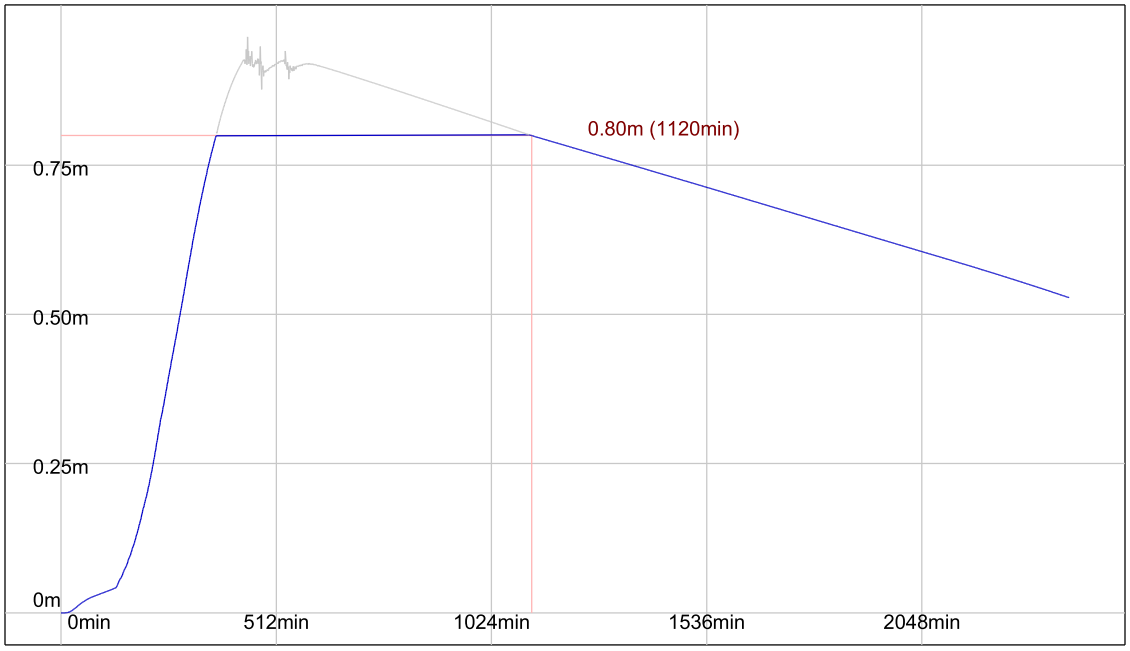
Tank at S150 (100Yr+45% 600Min Winter)



Tank Structure at Manhole S86

Tank Invert (m)	Tank Height (m)	Void Ratio (%)	Area (m2)	Effective Area (m2) Area x Void Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.600	0.800	95.00	136.000	129.200	103.360	0.00000000	0.00000000	2.00

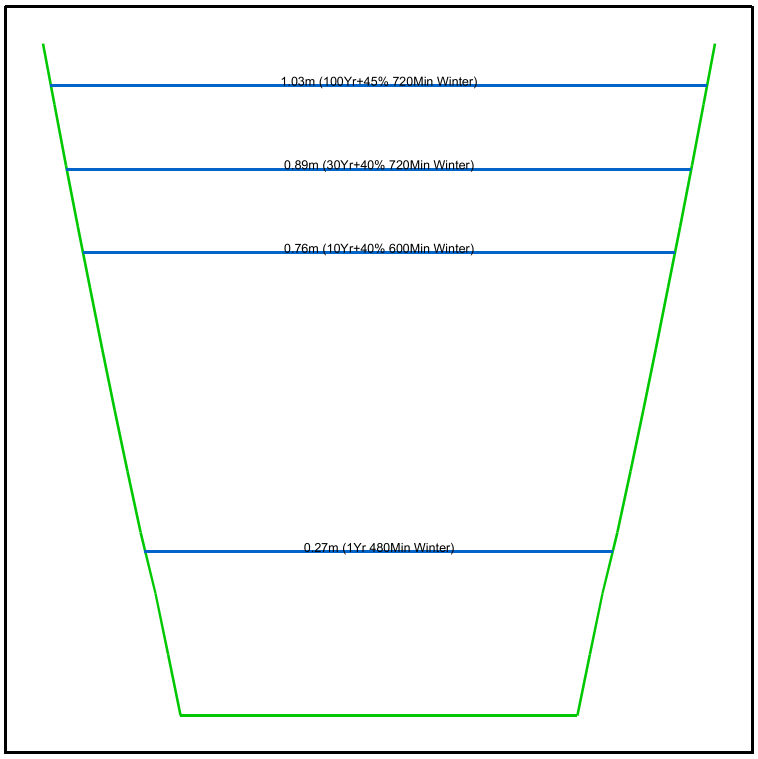
Tank at S86 (100Yr+45% 600Min Winter)



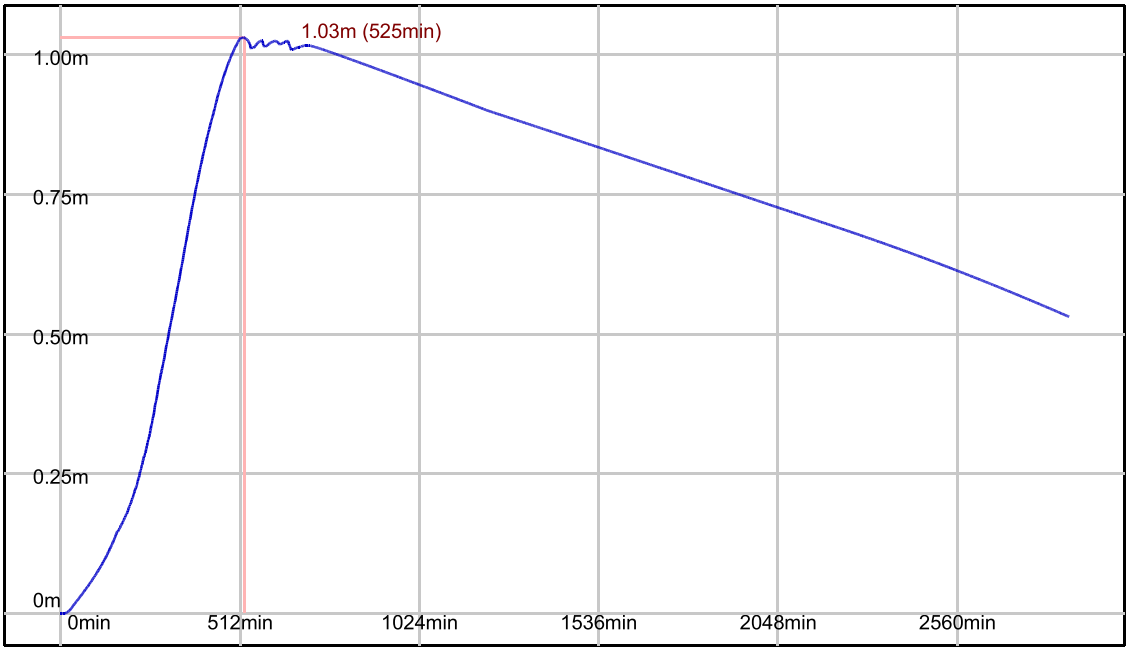
Pond Structure at Manhole S163

Pond Invert (m)	Max Depth (m)	Volume To Water Level (m3)	Water Level (m)	Freeboard (m)	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.500	1.100	230.036	4.450	0.150	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S163



Pond at S163 (100Yr+45% 720Min Winter)

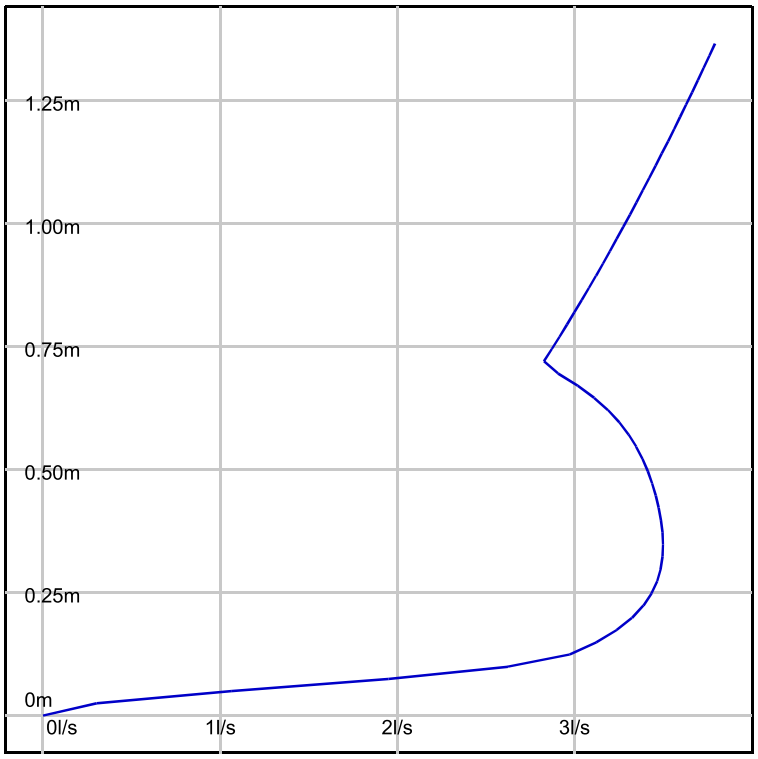


Controls within Manhole S161

Hydro-Brake® Optimum Control at Manhole S161

Model Ref	Design Depth (m)	Design Flow (l/s)	Depth Above Invert (m)	FF Head (m)	FF Flow (l/s)	KF Head (m)	KF Flow (l/s)
SHE-0087-3500-1150-3500	1.150	3.500	0.000	0.346	3.500	0.712	2.814

Hydro-Brake® Optimum Control at S161



Simulation Settings

FEH2022 (point): Filename=FEH_Point_Descriptors_488693_97897_v5_0_1.xml

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

Global Time of Entry: 5.0 mins

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

Return Periods (yrs) + Climate Change: (1, +0%), (10, +40%), (30, +40%), (100, +45%)

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
1Yr 15Min Winter	16.942	0.00	-0.65	30Yr+40% 15Min Summer	112.863	-0.23	0.09
1Yr 15Min Summer	16.942	0.00	-0.60	30Yr+40% 15Min Winter	112.863	-0.30	0.34
1Yr 30Min Winter	10.755	0.00	-0.74	30Yr+40% 30Min Summer	74.071	-0.10	0.82
1Yr 30Min Summer	10.755	0.00	-0.92	30Yr+40% 30Min Winter	74.071	-0.11	0.86
1Yr 60Min Winter	6.786	0.00	0.00	30Yr+40% 60Min Summer	46.547	0.00	1.13
1Yr 60Min Summer	6.786	0.00	-0.35	30Yr+40% 60Min Winter	46.547	0.00	1.20
1Yr 120Min Summer	5.246	0.00	0.04	30Yr+40% 120Min Summer	27.731	0.00	1.19
1Yr 120Min Winter	5.246	0.00	0.04	30Yr+40% 120Min Winter	27.731	0.00	1.11
1Yr 180Min Summer	4.383	0.00	0.04	30Yr+40% 180Min Summer	20.307	0.00	0.85
1Yr 180Min Winter	4.383	0.00	0.03	30Yr+40% 180Min Winter	20.307	0.00	0.89
1Yr 240Min Summer	3.631	0.00	0.03	30Yr+40% 240Min Summer	16.265	0.00	0.66
1Yr 240Min Winter	3.631	0.00	0.03	30Yr+40% 240Min Winter	16.265	0.00	0.74
1Yr 360Min Summer	2.818	0.00	0.03	30Yr+40% 360Min Summer	11.803	0.00	0.34
1Yr 360Min Winter	2.818	0.00	0.03	30Yr+40% 360Min Winter	11.803	0.00	0.46
1Yr 480Min Summer	2.343	0.00	0.03	30Yr+40% 480Min Summer	9.367	0.00	0.04
1Yr 480Min Winter	2.343	0.00	0.02	30Yr+40% 480Min Winter	9.367	0.00	0.16
1Yr 600Min Summer	2.004	0.00	0.03	30Yr+40% 600Min Summer	7.810	0.00	-0.19
1Yr 600Min Winter	2.004	0.00	0.02	30Yr+40% 600Min Winter	7.810	0.00	-0.10
1Yr 720Min Winter	1.752	0.00	0.03	30Yr+40% 720Min Summer	6.721	0.00	-0.28
1Yr 720Min Summer	1.752	0.00	0.03	30Yr+40% 720Min Winter	6.721	0.00	-0.24
1Yr 960Min Summer	1.420	0.00	0.02	30Yr+40% 960Min Summer	5.302	0.00	-0.22
1Yr 960Min Winter	1.420	0.00	0.03	30Yr+40% 960Min Winter	5.302	0.00	-0.15
1Yr 1440Min Summer	1.059	0.00	0.02	30Yr+40% 1440Min Summer	3.817	0.00	-0.11
1Yr 1440Min Winter	1.059	0.00	0.03	30Yr+40% 1440Min Winter	3.817	0.00	-0.08
10Yr+40% 15Min Summer	87.036	-0.14	-0.60	100Yr+45% 15Min Summer	146.276	-0.38	0.68
10Yr+40% 15Min Winter	87.036	-0.18	-0.42	100Yr+45% 15Min Winter	146.276	-0.47	0.95
10Yr+40% 30Min Summer	56.678	0.00	0.16	100Yr+45% 30Min Summer	96.982	-0.18	1.45
10Yr+40% 30Min Winter	56.678	0.00	0.26	100Yr+45% 30Min Winter	96.982	-0.20	1.44
10Yr+40% 60Min Summer	35.401	0.00	0.48	100Yr+45% 60Min Summer	61.530	0.00	1.66
10Yr+40% 60Min Winter	35.401	0.00	0.57	100Yr+45% 60Min Winter	61.530	0.00	1.75
10Yr+40% 120Min Winter	21.745	0.00	0.37	100Yr+45% 120Min Summer	35.946	0.00	1.71
10Yr+40% 120Min Summer	21.745	0.00	0.62	100Yr+45% 120Min Winter	35.946	0.00	1.75
10Yr+40% 180Min Summer	16.178	0.00	0.23	100Yr+45% 180Min Summer	26.053	0.00	1.40
10Yr+40% 180Min Winter	16.178	0.00	0.25	100Yr+45% 180Min Winter	26.053	0.00	1.50
10Yr+40% 240Min Summer	13.001	0.00	0.03	100Yr+45% 240Min Summer	20.923	0.00	1.26
10Yr+40% 240Min Winter	13.001	0.00	0.14	100Yr+45% 240Min Winter	20.923	0.00	1.37
10Yr+40% 360Min Summer	9.488	0.00	-0.27	100Yr+45% 360Min Summer	15.176	0.00	3.62
10Yr+40% 360Min Winter	9.488	0.00	-0.15	100Yr+45% 360Min Winter	15.176	0.00	5.21
10Yr+40% 480Min Summer	7.563	0.00	-0.41	100Yr+45% 480Min Summer	12.028	0.00	4.28
10Yr+40% 480Min Winter	7.563	0.00	-0.35	100Yr+45% 480Min Winter	12.028	0.00	7.10
10Yr+40% 600Min Winter	6.323	0.00	-0.33	100Yr+45% 600Min Summer	10.033	0.00	4.52
10Yr+40% 600Min Summer	6.323	0.00	-0.39	100Yr+45% 600Min Winter	10.033	0.00	8.08
10Yr+40% 720Min Summer	5.451	0.00	-0.34	100Yr+45% 720Min Summer	8.641	0.00	4.63
10Yr+40% 720Min Winter	5.451	0.00	-0.26	100Yr+45% 720Min Winter	8.641	0.00	8.61
10Yr+40% 960Min Summer	4.313	0.00	-0.27	100Yr+45% 960Min Summer	6.827	0.00	4.61
10Yr+40% 960Min Winter	4.313	0.00	-0.15	100Yr+45% 960Min Winter	6.827	0.00	9.30
10Yr+40% 1440Min Summer	3.111	0.00	-0.13	100Yr+45% 1440Min Winter	4.922	0.00	7.98
10Yr+40% 1440Min Winter	3.111	0.00	-0.07	100Yr+45% 1440Min Summer	4.922	0.00	3.44

Simulation Results

Return Period Yrs: 1.0

Climate Change %: 0

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP337B	-	0	5.600	0.000	0.000		OK
RE337A	15 min Winter	8	5.577	0.027	1.011		OK
RWP335D	-	0	5.600	0.000	0.000		OK
PS227	15 min Winter	9	5.452	0.027	0.966		OK
RE334A	15 min Winter	8	5.625	0.025	1.011		OK
RWP334A	-	0	5.600	0.000	0.000		OK
PS222	15 min Winter	9	5.476	0.026	0.964		OK
PS223	15 min Winter	9	5.339	0.039	1.960		OK
RWP337A	-	0	5.600	0.000	0.000		OK
RE337B	-	0	5.550	0.000	0.000		OK
PS224	15 min Winter	9	5.275	0.025	1.976		OK
S104	15 min Winter	8	5.442	0.017	2.023		OK
S80	15 min Winter	9	4.523	0.047	3.886		OK
S81	15 min Winter	9	4.471	0.056	5.057		OK
S107	600 min Winter	388	5.303	0.003	0.044		OK
S105	600 min Winter	386	5.224	0.003	0.036		OK
S106	15 min Winter	9	4.384	0.075	8.361		OK
S108	600 min Winter	387	5.053	0.003	0.044		OK
S82	15 min Winter	10	4.181	0.063	8.053		OK
S83	15 min Winter	10	4.058	0.058	8.214		OK
S153	180 min Summer	100	3.975	0.025	0.893		OK
S154	180 min Summer	101	3.955	0.025	0.876		OK
S152	180 min Summer	106	3.897	0.047	3.345		OK
S150	240 min Summer	152	3.768	0.043	2.721		OK
RWP338B	-	0	5.450	0.000	0.000		OK
RE338A	15 min Winter	8	5.433	0.033	1.683		OK
DF341	600 min Winter	384	5.253	0.003	0.028		OK
PS336	15 min Winter	8	5.129	0.029	1.647		OK
DF338	600 min Winter	397	5.366	0.006	0.082		OK
PS31	600 min Winter	398	5.182	0.007	0.082		OK
PS32	15 min Winter	9	4.985	0.035	2.119		OK
RWP342B	-	0	5.300	0.000	0.000		OK
PS33	15 min Winter	9	4.731	0.031	2.149		OK
S130	15 min Winter	10	4.068	0.037	2.054		OK
RWP343A	-	0	5.300	0.000	0.000		OK
RE343B	15 min Winter	8	5.300	0.025	0.883		OK
PS232	15 min Winter	8	5.175	0.025	0.868		OK
RE343A	-	0	5.300	0.000	0.000		OK
RWP344D	-	0	5.300	0.000	0.000		OK
PS233	15 min Winter	9	5.018	0.018	0.857		OK
DF344	600 min Winter	390	5.255	0.005	0.055		OK
RE345A	-	0	5.250	0.000	0.000		OK
PS29	15 min Winter	9	4.866	0.016	0.864		OK
S129	15 min Winter	9	4.033	0.076	8.623		OK
RE345B	15 min Winter	8	5.280	0.030	1.271		OK
PS243	15 min Winter	9	5.128	0.028	1.214		OK
DF347	360 min Winter	235	4.984	0.009	0.121		OK
PS240	-	0	5.250	0.000	0.000		OK
PS27	15 min Winter	9	4.873	0.023	1.238		OK
DF348	-	0	4.950	0.000	0.000		OK
RE348A	-	0	5.075	0.000	0.000		OK
RWP348B	-	0	5.075	0.000	0.000		OK
PS25	-	0	4.850	0.000	0.000		OK
S128	15 min Winter	9	3.923	0.080	9.903		OK
RE348B	15 min Winter	8	5.105	0.030	1.271		OK
PS238	15 min Winter	8	4.926	0.026	1.252		OK
PS239	15 min Winter	9	4.719	0.019	1.229		OK
RE349A	-	0	5.075	0.000	0.000		OK
DF350	600 min Winter	385	5.003	0.003	0.032		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS200	15 min Winter	9	4.502	0.022	1.240		OK
S109(D)	600 min Winter	386	4.729	0.004	0.032		OK
S92	15 min Winter	9	3.769	0.094	14.077		OK
S93	480 min Winter	374	3.767	0.142	0.891		OK
S86	480 min Winter	374	3.767	0.167	1.750		OK
S87	480 min Winter	375	3.767	0.217	2.086		OK
RWP301A	-	0	5.700	0.000	0.000		OK
RE301A	-	0	5.675	0.000	0.000		OK
PS363	15 min Winter	8	5.597	0.027	1.011		OK
RWP301C	-	0	5.650	0.000	0.000		OK
RE302A	-	0	5.600	0.000	0.000		OK
RWP302B	-	0	5.650	0.000	0.000		OK
PS365	-	0	5.540	0.000	0.000		OK
DF302	15 min Winter	8	5.519	0.019	0.948		OK
PS362	15 min Winter	9	5.406	0.036	1.872		OK
S69	15 min Winter	9	4.769	0.069	6.493		OK
S98	15 min Winter	9	4.568	0.068	11.344		OK
RE333B	-	0	5.150	0.000	0.000		OK
PS273	-	0	4.700	0.000	0.000		OK
RWP333B	-	0	5.150	0.000	0.000		OK
RE333A	-	0	5.100	0.000	0.000		OK
DF330	600 min Winter	396	4.930	0.005	0.080		OK
DF331	600 min Winter	387	5.103	0.003	0.042		OK
PS274	600 min Winter	394	4.489	0.009	0.122		OK
S70	15 min Winter	9	4.259	0.079	17.097		OK
RE309B	-	0	5.350	0.000	0.000		OK
RWP312B	-	0	5.375	0.000	0.000		OK
PS260	-	0	5.155	0.000	0.000		OK
RE309A	-	0	5.350	0.000	0.000		OK
RWP312A	-	0	5.375	0.000	0.000		OK
PS261	-	0	4.985	0.000	0.000		OK
PS206	600 min Winter	385	4.953	0.003	0.032		OK
S117	15 min Winter	9	4.165	0.085	18.666		OK
RE330B	15 min Winter	8	4.896	0.026	0.900		OK
PS20	15 min Winter	9	4.700	0.025	0.861		OK
RWP330A	-	0	4.925	0.000	0.000		OK
RE330A	15 min Winter	8	4.922	0.022	0.990		OK
S115	600 min Winter	385	4.903	0.003	0.032		OK
PS23	15 min Winter	9	4.530	0.030	1.822		OK
RWP325C	-	0	4.925	0.000	0.000		OK
ACO325	-	0	4.895	0.000	0.000		OK
RE325A	-	0	4.870	0.000	0.000		OK
PS16	-	0	4.800	0.000	0.000		OK
RWP325B	-	0	4.925	0.000	0.000		OK
RE325B	15 min Winter	8	4.869	0.019	1.271		OK
DF326	600 min Winter	390	4.854	0.004	0.056		OK
PS10	15 min Winter	9	4.428	0.028	3.038		OK
S114	15 min Winter	9	4.083	0.098	23.330		OK
YG313	15 min Winter	8	5.177	0.027	1.674		OK
YG316	-	0	5.080	0.000	0.000		OK
PS257	15 min Winter	8	4.817	0.037	2.081		OK
RE313A	-	0	5.300	0.000	0.000		OK
RE318B	-	0	5.025	0.000	0.000		OK
PS258	15 min Winter	9	4.733	0.038	2.033		OK
RWP324A	-	0	4.925	0.000	0.000		OK
RE324A	-	0	4.900	0.000	0.000		OK
PS5	-	0	4.700	0.000	0.000		OK
DF324	600 min Winter	390	4.731	0.006	0.057		OK
PS6	600 min Winter	391	4.504	0.004	0.057		OK
S71	15 min Winter	9	4.005	0.115	31.517		OK
RE319A	-	0	5.000	0.000	0.000		OK
GY319	15 min Winter	8	4.800	0.015	0.340		OK
PS285	15 min Winter	9	4.764	0.014	0.327		OK
RE319B	15 min Winter	8	4.917	0.017	0.560		OK
RWP319D	-	0	5.000	0.000	0.000		OK
PS286	15 min Winter	8	4.679	0.029	1.426		OK
RE320A	-	0	4.775	0.000	0.000		OK
GY320	15 min Winter	8	4.667	0.017	0.339		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS288	15 min Winter	9	4.649	0.014	0.325		OK
RWP320D	-	0	4.800	0.000	0.000		OK
PS283	15 min Winter	9	4.580	0.030	1.732		OK
GY279	-	0	4.615	0.000	0.000		OK
S72	15 min Winter	10	3.777	0.127	31.821		OK
S164	600 min Winter	437	3.814	0.214	12.510		OK
S163	480 min Winter	362	3.768	0.268	1.486		OK
S161	480 min Winter	374	3.795	0.345	3.738		Surcharged
S162	480 min Winter	368	3.327	0.027	3.491		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	8	RWP337B	RE337A	0.014	0.000	0.000	0.000	OK
1.001	15 min Winter	8	RE337A	PS227	0.027	0.588	0.995	0.160	OK
2.000	15 min Winter	9	RWP335D	PS227	0.013	0.000	0.000	0.000	OK
1.002	15 min Winter	9	PS227	PS223	0.033	0.440	0.981	0.157	OK
3.000	15 min Winter	8	RE334A	PS222	0.026	0.620	0.995	0.142	OK
4.000	15 min Winter	9	RWP334A	PS222	0.013	0.000	0.000	0.000	OK
3.001	15 min Winter	9	PS222	PS223	0.033	0.444	0.979	0.153	OK
1.003	15 min Winter	9	PS223	PS224	0.032	0.911	1.976	0.322	OK
5.000	15 min Winter	0	RWP337A	RE337B	0.000	0.000	0.000	0.000	OK
5.001	15 min Winter	9	RE337B	PS224	0.013	0.000	0.000	0.000	OK
1.004	15 min Winter	9	PS224	S80	0.025	1.287	1.978	0.137	OK
6.000	15 min Winter	8	S104	S80	0.017	1.891	2.013	0.026	OK
1.005	15 min Winter	9	S80	S81	0.052	0.563	3.902	0.100	OK
1.006	15 min Winter	9	S81	S106	0.066	0.519	5.037	0.141	OK
7.000	600 min Winter	388	S107	S106	0.003	0.417	0.044	0.001	OK
8.000	600 min Winter	386	S105	S106	0.003	0.000	0.036	0.001	OK
1.007	15 min Winter	9	S106	S82	0.069	0.801	8.260	0.240	OK
9.000	600 min Winter	387	S108	S82	0.003	0.437	0.044	0.001	OK
1.008	15 min Winter	10	S82	S83	0.060	0.957	8.214	0.173	OK
1.009	15 min Winter	10	S83	S152	0.058	1.019	8.231	0.147	OK
10.000	180 min Summer	101	S153	S154	0.025	0.312	0.876	0.015	OK
10.001	180 min Summer	104	S154	S152	0.036	0.186	0.874	0.015	OK
1.010	180 min Summer	106	S152	S150	0.045	0.507	3.387	0.054	OK
1.011	480 min Winter	380	S150	S86	0.105	0.243	1.914	0.032	OK
11.000	15 min Winter	8	RWP338B	RE338A	0.016	0.000	0.000	0.000	OK
11.001	15 min Winter	8	RE338A	PS336	0.033	0.731	1.647	0.236	OK
12.000	15 min Winter	8	DF341	PS336	0.014	0.004	0.001	0.000	OK
11.002	15 min Winter	9	PS336	PS32	0.032	0.602	1.627	0.081	OK
13.000	600 min Winter	398	DF338	PS31	0.007	0.288	0.082	0.003	OK
13.001	15 min Winter	9	PS31	PS32	0.017	0.000	0.000	0.000	OK
11.003	15 min Winter	9	PS32	PS33	0.033	0.748	2.149	0.117	OK
14.000	15 min Winter	0	RWP342B	PS33	0.000	0.000	0.000	0.000	OK
11.004	15 min Winter	9	PS33	S130	0.031	0.817	2.141	0.094	OK
11.005	15 min Winter	10	S130	S129	0.056	0.278	2.099	0.061	OK
15.000	15 min Winter	8	RWP343A	RE343B	0.012	0.000	0.000	0.000	OK
15.001	15 min Winter	8	RE343B	PS232	0.025	0.575	0.868	0.134	OK
15.002	15 min Winter	9	PS232	PS233	0.022	0.689	0.857	0.125	OK
16.000	15 min Winter	9	RE343A	PS233	0.009	0.000	0.000	0.000	OK
17.000	15 min Winter	9	RWP344D	PS233	0.009	0.000	0.000	0.000	OK
15.003	15 min Winter	9	PS233	PS29	0.018	0.866	0.864	0.075	OK
18.000	600 min Winter	390	DF344	PS29	0.005	0.357	0.055	0.005	OK
19.000	15 min Winter	0	RE345A	PS29	0.000	0.000	0.000	0.000	OK
15.004	15 min Winter	9	PS29	S129	0.016	0.870	0.866	0.024	OK
11.006	15 min Winter	9	S129	S128	0.078	0.714	8.658	0.251	OK
20.000	15 min Winter	8	RE345B	PS243	0.029	0.663	1.253	0.193	OK
20.001	15 min Winter	9	PS243	PS27	0.028	0.678	1.237	0.176	OK
21.000	15 min Winter	9	DF347	PS27	0.011	0.002	0.001	0.000	OK
22.000	15 min Winter	0	PS240	PS27	0.000	0.000	0.000	0.000	OK
20.002	15 min Winter	9	PS27	S128	0.023	0.742	1.245	0.050	OK
23.000	15 min Winter	0	DF348	PS25	0.000	0.000	0.000	0.000	OK
24.000	15 min Winter	0	RE348A	PS25	0.000	0.000	0.000	0.000	OK
25.000	15 min Winter	0	RWP348B	PS25	0.000	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
23.001	15 min Winter	0	PS25	S128	0.000	0.000	0.000	0.000	OK
11.007	15 min Winter	10	S128	S92	0.079	0.772	9.632	0.273	OK
26.000	15 min Winter	8	RE348B	PS238	0.028	0.699	1.252	0.185	OK
26.001	15 min Winter	8	PS238	PS239	0.023	0.920	1.236	0.140	OK
26.002	15 min Winter	9	PS239	PS200	0.019	1.169	1.239	0.081	OK
27.000	15 min Winter	0	RE349A	PS200	0.000	0.000	0.000	0.000	OK
28.000	15 min Winter	9	DF350	PS200	0.011	0.005	0.001	0.000	OK
26.003	15 min Winter	9	PS200	S92	0.022	0.764	1.249	0.048	OK
29.000	600 min Winter	386	S109(D)	S92	0.004	0.259	0.032	0.001	OK
11.008	480 min Winter	374	S92	S93	0.117	0.463	2.752	0.044	OK
11.009	480 min Winter	374	S93	S86	0.155	0.523	2.727	0.041	OK
1.012	480 min Winter	373	S86	S87	0.192	0.399	3.067	0.047	OK
1.013	480 min Winter	369	S87	S163	0.243	0.162	2.910	0.030	OK
30.000	15 min Winter	0	RWP301A	RE301A	0.000	0.000	0.000	0.000	OK
30.001	15 min Winter	8	RE301A	PS363	0.014	0.000	0.000	0.000	OK
30.002	15 min Winter	8	PS363	PS362	0.027	0.572	0.982	0.161	OK
31.000	15 min Winter	0	RWP301C	RE302A	0.000	0.000	0.000	0.000	OK
31.001	15 min Winter	0	RE302A	PS365	0.000	0.000	0.000	0.000	OK
32.000	15 min Winter	0	RWP302B	PS365	0.000	0.000	0.000	0.000	OK
31.002	15 min Winter	0	PS365	PS362	0.000	0.000	0.000	0.000	OK
33.000	15 min Winter	8	DF302	PS362	0.027	0.433	0.937	0.033	OK
30.003	15 min Winter	9	PS362	S69	0.036	0.591	1.903	0.126	OK
30.004	15 min Winter	9	S69	S98	0.067	0.656	6.574	0.210	OK
30.005	15 min Winter	9	S98	S70	0.068	0.950	11.369	0.115	OK
34.000	15 min Winter	0	RE333B	PS273	0.000	0.000	0.000	0.000	OK
34.001	15 min Winter	0	PS273	PS274	0.000	0.000	0.000	0.000	OK
35.000	15 min Winter	0	RWP333B	RE333A	0.000	0.000	0.000	0.000	OK
35.001	15 min Winter	0	RE333A	PS274	0.000	0.000	0.000	0.000	OK
36.000	600 min Winter	396	DF330	PS274	0.007	0.260	0.080	0.002	OK
37.000	600 min Winter	392	DF331	PS274	0.006	0.177	0.042	0.001	OK
34.002	600 min Winter	394	PS274	S70	0.009	0.268	0.122	0.008	OK
30.006	15 min Winter	9	S70	S117	0.082	0.958	17.142	0.101	OK
38.000	15 min Winter	0	RE309B	PS260	0.000	0.000	0.000	0.000	OK
39.000	15 min Winter	0	RWP312B	PS260	0.000	0.000	0.000	0.000	OK
38.001	15 min Winter	0	PS260	PS261	0.000	0.000	0.000	0.000	OK
40.000	15 min Winter	0	RE309A	PS261	0.000	0.000	0.000	0.000	OK
41.000	15 min Winter	0	RWP312A	PS261	0.000	0.000	0.000	0.000	OK
38.002	15 min Winter	0	PS261	S117	0.000	0.000	0.000	0.000	OK
42.000	600 min Winter	385	PS206	S117	0.003	0.000	0.032	0.001	OK
30.007	15 min Winter	9	S117	S114	0.092	0.895	18.719	0.114	OK
43.000	15 min Winter	8	RE330B	PS20	0.025	0.566	0.886	0.145	OK
43.001	15 min Winter	9	PS20	PS23	0.025	0.559	0.876	0.143	OK
44.000	15 min Winter	8	RWP330A	RE330A	0.011	0.000	0.000	0.000	OK
44.001	15 min Winter	8	RE330A	PS23	0.022	0.739	0.972	0.111	OK
45.000	15 min Winter	9	S115	PS23	0.015	0.003	0.001	0.000	OK
43.002	15 min Winter	9	PS23	PS10	0.029	0.768	1.834	0.087	OK
46.000	15 min Winter	0	RWP325C	RE325A	0.000	0.000	0.000	0.000	OK
47.000	15 min Winter	0	ACO325	RE325A	0.000	0.000	0.000	0.000	OK
46.001	15 min Winter	0	RE325A	PS16	0.000	0.000	0.000	0.000	OK
46.002	15 min Winter	0	PS16	PS10	0.000	0.000	0.000	0.000	OK
48.000	15 min Winter	8	RWP325B	RE325B	0.010	0.000	0.000	0.000	OK
48.001	15 min Winter	8	RE325B	PS10	0.019	1.188	1.259	0.081	OK
49.000	15 min Winter	9	DF326	PS10	0.014	0.011	0.001	0.000	OK
43.003	15 min Winter	9	PS10	S114	0.028	1.347	3.052	0.076	OK
30.008	15 min Winter	9	S114	S71	0.107	0.903	23.387	0.150	OK
50.000	15 min Winter	8	YG313	PS257	0.032	0.593	1.652	0.072	OK
51.000	15 min Winter	8	YG316	PS257	0.019	0.000	0.000	0.000	OK
50.001	15 min Winter	9	PS257	PS258	0.037	0.597	2.033	0.137	OK
52.000	15 min Winter	0	RE313A	PS258	0.000	0.000	0.000	0.000	OK
53.000	15 min Winter	0	RE318B	PS258	0.000	0.000	0.000	0.000	OK
50.002	15 min Winter	9	PS258	S71	0.038	0.591	2.054	0.140	OK
54.000	15 min Winter	0	RWP324A	RE324A	0.000	0.000	0.000	0.000	OK
54.001	15 min Winter	0	RE324A	PS5	0.000	0.000	0.000	0.000	OK
54.002	15 min Winter	0	PS5	PS6	0.000	0.000	0.000	0.000	OK
55.000	600 min Winter	391	DF324	PS6	0.005	0.354	0.057	0.002	OK
54.003	600 min Winter	391	PS6	S71	0.004	0.517	0.057	0.001	OK
30.009	15 min Winter	9	S71	S72	0.121	1.014	31.298	0.212	OK
56.000	15 min Winter	0	RE319A	PS285	0.000	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
57.000	15 min Winter	9	GY319	PS285	0.014	0.395	0.330	0.020	OK
56.001	15 min Winter	9	PS285	PS286	0.022	0.212	0.330	0.017	OK
58.000	15 min Winter	8	RE319B	PS286	0.017	0.645	0.549	0.060	OK
59.000	15 min Winter	0	RWP319D	PS286	0.000	0.000	0.000	0.000	OK
56.002	15 min Winter	9	PS286	PS283	0.029	0.583	1.405	0.085	OK
60.000	15 min Winter	0	RE320A	PS288	0.000	0.000	0.000	0.000	OK
61.000	15 min Winter	9	GY320	PS288	0.016	0.332	0.326	0.030	OK
60.001	15 min Winter	9	PS288	PS283	0.022	0.205	0.327	0.019	OK
62.000	15 min Winter	0	RWP320D	PS283	0.000	0.000	0.000	0.000	OK
56.003	15 min Winter	9	PS283	S72	0.030	0.707	1.737	0.086	OK
63.000	15 min Winter	0	GY279	S72	0.000	0.000	0.000	0.000	OK
30.010	480 min Winter	373	S72	S164	0.157	0.793	13.064	0.104	OK
30.011	600 min Winter	437	S164	S163	0.239	1.016	45.351	0.137	OK
1.014	480 min Winter	374	S163	S161	0.306	0.571	28.742	0.131	OK
1.015	480 min Winter	368	S161	S162	0.027	1.312	3.491	0.030	OK

Return Period Yrs: 10.0

Climate Change %: 40

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP337B	15 min Winter	8	5.618	0.018	0.067		OK
RE337A	15 min Winter	8	5.618	0.068	5.197		OK
RWP335D	-	0	5.600	0.000	0.000		OK
PS227	15 min Winter	9	5.512	0.087	4.988		OK
RE334A	15 min Winter	8	5.663	0.063	5.197		OK
RWP334A	-	0	5.600	0.000	0.000		OK
PS222	15 min Winter	9	5.526	0.076	4.926		OK
PS223	15 min Winter	9	5.452	0.152	9.750		Surcharged
RWP337A	-	0	5.600	0.000	0.000		OK
RE337B	-	0	5.550	0.000	0.000		OK
PS224	15 min Winter	9	5.310	0.060	9.654		OK
S104	15 min Winter	8	5.462	0.037	10.395		OK
S80	15 min Winter	9	4.591	0.116	19.396		OK
S81	15 min Winter	10	4.567	0.152	22.996		OK
S107	120 min Summer	76	5.310	0.010	0.458		OK
S105	60 min Winter	49	5.230	0.009	0.431		OK
S106	15 min Winter	9	4.538	0.230	41.154		Surcharged
S108	120 min Summer	76	5.060	0.010	0.458		OK
S82	15 min Winter	10	4.273	0.155	39.758		OK
S83	600 min Winter	584	4.257	0.257	0.467		Surcharged
S153	600 min Winter	583	4.257	0.307	0.092		Surcharged
S154	600 min Winter	584	4.258	0.328	0.112		Surcharged
S152	600 min Winter	584	4.257	0.407	0.582		Surcharged
S150	600 min Winter	583	4.257	0.532	0.566		Surcharged
RWP338B	15 min Winter	9	5.529	0.079	0.189		OK
RE338A	15 min Winter	9	5.529	0.129	8.107		Surcharged
DF341	60 min Winter	49	5.259	0.009	0.397		OK
PS336	15 min Winter	9	5.164	0.064	7.738		OK
DF338	120 min Winter	89	5.375	0.015	0.541		OK
PS31	120 min Winter	90	5.193	0.018	0.541		OK
PS32	15 min Winter	9	5.030	0.080	10.255		OK
RWP342B	-	0	5.300	0.000	0.000		OK
PS33	15 min Winter	9	4.770	0.070	10.240		OK
S130	600 min Winter	584	4.257	0.227	0.164		Surcharged
RWP343A	15 min Winter	8	5.336	0.036	0.055		OK
RE343B	15 min Winter	8	5.336	0.061	4.541		OK
PS232	15 min Winter	8	5.210	0.060	4.438		OK
RE343A	-	0	5.300	0.000	0.000		OK
RWP344D	-	0	5.300	0.000	0.000		OK
PS233	15 min Winter	9	5.043	0.043	4.399		OK
DF344	120 min Summer	78	5.264	0.014	0.486		OK
RE345A	-	0	5.250	0.000	0.000		OK
PS29	15 min Winter	9	4.885	0.035	4.430		OK
S129	600 min Winter	584	4.257	0.301	0.433		Surcharged
RE345B	15 min Winter	8	5.331	0.081	6.533		OK
PS243	15 min Winter	8	5.174	0.074	6.436		OK
DF347	120 min Winter	86	4.994	0.019	0.643		OK
PS240	-	0	5.250	0.000	0.000		OK
PS27	15 min Winter	9	4.901	0.051	6.339		OK
DF348	-	0	4.950	0.000	0.000		OK
RE348A	-	0	5.075	0.000	0.000		OK
RWP348B	-	0	5.075	0.000	0.000		OK
PS25	-	0	4.850	0.000	0.000		OK
S128	600 min Winter	584	4.257	0.414	0.554		Surcharged
RE348B	15 min Winter	8	5.153	0.078	6.533		OK
PS238	15 min Winter	8	4.965	0.065	6.447		OK
PS239	15 min Winter	8	4.745	0.045	6.394		OK
RE349A	-	0	5.075	0.000	0.000		OK
DF350	60 min Winter	49	5.009	0.009	0.415		OK
PS200	15 min Winter	8	4.530	0.050	6.363		OK
S109(D)	60 min Winter	49	4.738	0.013	0.415		OK
S92	600 min Winter	584	4.257	0.582	0.758		Surcharged
S93	600 min Winter	584	4.257	0.632	0.757		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S86	600 min Winter	584	4.257	0.657	1.358		Surcharged
S87	600 min Winter	581	4.257	0.707	1.238		Surcharged
RWP301A	-	0	5.700	0.000	0.000		OK
RE301A	-	0	5.675	0.000	0.000		OK
PS363	15 min Winter	8	5.640	0.070	5.198		OK
RWP301C	-	0	5.650	0.000	0.000		OK
RE302A	-	0	5.600	0.000	0.000		OK
RWP302B	-	0	5.650	0.000	0.000		OK
PS365	-	0	5.540	0.000	0.000		OK
DF302	15 min Winter	8	5.542	0.042	4.870		OK
PS362	15 min Winter	8	5.457	0.087	9.932		OK
S69	15 min Winter	9	4.890	0.190	33.322		OK
S98	15 min Winter	9	4.664	0.164	58.573		OK
RE333B	-	0	5.150	0.000	0.000		OK
PS273	-	0	4.700	0.000	0.000		OK
RWP333B	-	0	5.150	0.000	0.000		OK
RE333A	-	0	5.100	0.000	0.000		OK
DF330	120 min Winter	89	4.937	0.012	0.536		OK
DF331	120 min Summer	76	5.108	0.008	0.453		OK
PS274	120 min Summer	78	4.505	0.025	0.974		OK
S70	15 min Winter	8	4.381	0.201	89.071		OK
RE309B	-	0	5.350	0.000	0.000		OK
RWP312B	-	0	5.375	0.000	0.000		OK
PS260	-	0	5.155	0.000	0.000		OK
RE309A	-	0	5.350	0.000	0.000		OK
RWP312A	-	0	5.375	0.000	0.000		OK
PS261	-	0	4.985	0.000	0.000		OK
PS206	60 min Winter	49	4.960	0.010	0.414		OK
S117	15 min Winter	9	4.306	0.226	96.837		OK
RE330B	15 min Winter	8	4.934	0.064	4.626		OK
PS20	15 min Winter	8	4.738	0.063	4.573		OK
RWP330A	15 min Winter	8	4.954	0.029	0.042		OK
RE330A	15 min Winter	8	4.954	0.054	5.089		OK
S115	60 min Winter	49	4.910	0.010	0.415		OK
PS23	15 min Winter	8	4.570	0.070	9.441		OK
RWP325C	-	0	4.925	0.000	0.000		OK
ACO325	-	0	4.895	0.000	0.000		OK
RE325A	-	0	4.870	0.000	0.000		OK
PS16	-	0	4.800	0.000	0.000		OK
RWP325B	-	0	4.925	0.000	0.000		OK
RE325B	15 min Winter	8	4.895	0.045	6.532		OK
DF326	120 min Summer	78	4.861	0.011	0.488		OK
PS10	15 min Winter	8	4.465	0.065	15.890		OK
S114	15 min Winter	9	4.263	0.278	120.985		OK
YG313	15 min Winter	8	5.213	0.063	8.597		OK
YG316	-	0	5.080	0.000	0.000		OK
PS257	15 min Winter	8	4.873	0.093	10.739		OK
RE313A	-	0	5.300	0.000	0.000		OK
RE318B	-	0	5.025	0.000	0.000		OK
PS258	15 min Winter	9	4.788	0.093	10.373		OK
RWP324A	-	0	4.925	0.000	0.000		OK
RE324A	-	0	4.900	0.000	0.000		OK
PS5	-	0	4.700	0.000	0.000		OK
DF324	120 min Summer	78	4.740	0.015	0.488		OK
PS6	120 min Summer	78	4.510	0.010	0.488		OK
S71	600 min Winter	573	4.263	0.373	1.106		OK
RE319A	-	0	5.000	0.000	0.000		OK
GY319	15 min Winter	8	4.817	0.032	1.748		OK
PS285	15 min Winter	8	4.780	0.030	1.727		OK
RE319B	15 min Winter	8	4.938	0.038	2.873		OK
RWP319D	-	0	5.000	0.000	0.000		OK
PS286	15 min Winter	8	4.720	0.070	7.428		OK
RE320A	-	0	4.775	0.000	0.000		OK
GY320	15 min Winter	8	4.688	0.038	1.738		OK
PS288	15 min Winter	8	4.667	0.032	1.715		OK
RWP320D	-	0	4.800	0.000	0.000		OK
PS283	15 min Winter	9	4.619	0.069	8.833		OK
GY279	-	0	4.615	0.000	0.000		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S72	600 min Winter	573	4.264	0.614	2.190		Surcharged
S164	600 min Winter	586	4.259	0.659	1.409		Surcharged
S163	600 min Winter	581	4.257	0.757	1.251		Surcharged
S161	600 min Winter	583	4.262	0.812	2.963		Surcharged
S162	1440 min Winter	2846	3.327	0.027	3.500		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	10	RWP337B	RE337A	0.043	0.103	0.262	0.020	OK
1.001	15 min Winter	9	RE337A	PS227	0.077	0.881	5.062	0.815	OK
2.000	15 min Winter	9	RWP335D	PS227	0.043	0.000	0.000	0.000	OK
1.002	15 min Winter	9	PS227	PS223	0.093	0.648	4.833	0.773	OK
3.000	15 min Winter	9	RE334A	PS222	0.069	0.940	5.144	0.736	OK
4.000	15 min Winter	9	RWP334A	PS222	0.038	0.000	0.000	0.000	OK
3.001	15 min Winter	9	PS222	PS223	0.088	0.690	4.917	0.767	OK
1.003	15 min Winter	9	PS223	PS224	0.080	1.435	9.654	1.575	OK
5.000	15 min Summer	0	RWP337A	RE337B	0.000	0.000	0.000	0.000	OK
5.001	15 min Winter	9	RE337B	PS224	0.030	0.000	0.000	0.000	OK
1.004	15 min Winter	9	PS224	S80	0.060	1.965	9.626	0.668	OK
6.000	15 min Winter	8	S104	S80	0.038	3.013	10.373	0.133	OK
1.005	15 min Winter	9	S80	S81	0.133	0.837	19.409	0.496	OK
1.006	15 min Winter	10	S81	S106	0.189	0.769	24.415	0.683	OK
7.000	15 min Winter	26	S107	S106	0.075	0.729	0.277	0.006	OK
8.000	15 min Winter	25	S105	S106	0.075	0.898	0.266	0.004	OK
1.007	15 min Winter	10	S106	S82	0.190	1.167	39.758	1.156	OK
9.000	15 min Winter	26	S108	S82	0.040	0.762	0.277	0.006	OK
1.008	600 min Winter	584	S82	S83	0.182	0.833	5.229	0.110	OK
1.009	480 min Summer	449	S83	S152	0.225	1.045	17.225	0.308	OK
10.000	600 min Winter	527	S153	S154	0.300	0.347	1.269	0.021	Surcharged
10.001	480 min Summer	476	S154	S152	0.300	0.212	2.141	0.036	Surcharged
1.010	240 min Summer	184	S152	S150	0.300	0.608	13.866	0.222	Surcharged
1.011	60 min Winter	48	S150	S86	0.300	0.060	4.100	0.070	Surcharged
11.000	15 min Winter	11	RWP338B	RE338A	0.089	0.245	1.082	0.082	OK
11.001	15 min Winter	9	RE338A	PS336	0.094	1.026	7.738	1.107	OK
12.000	15 min Winter	25	DF341	PS336	0.032	0.532	0.254	0.005	OK
11.002	15 min Winter	9	PS336	PS32	0.072	0.942	7.724	0.384	OK
13.000	120 min Winter	90	DF338	PS31	0.016	0.510	0.541	0.022	OK
13.001	15 min Winter	29	PS31	PS32	0.040	0.342	0.306	0.017	OK
11.003	15 min Winter	9	PS32	PS33	0.075	1.155	10.240	0.556	OK
14.000	15 min Winter	9	RWP342B	PS33	0.010	0.000	0.000	0.000	OK
11.004	15 min Winter	9	PS33	S130	0.070	1.265	10.220	0.447	OK
11.005	720 min Winter	679	S130	S129	0.225	0.265	1.372	0.040	OK
15.000	15 min Winter	11	RWP343A	RE343B	0.048	0.106	0.154	0.017	OK
15.001	15 min Winter	8	RE343B	PS232	0.060	0.899	4.438	0.687	OK
15.002	15 min Winter	9	PS232	PS233	0.051	1.089	4.399	0.643	OK
16.000	15 min Winter	9	RE343A	PS233	0.021	0.000	0.000	0.000	OK
17.000	15 min Winter	9	RWP344D	PS233	0.021	0.000	0.000	0.000	OK
15.003	15 min Winter	9	PS233	PS29	0.043	1.377	4.430	0.383	OK
18.000	120 min Summer	78	DF344	PS29	0.014	0.694	0.486	0.045	OK
19.000	15 min Summer	0	RE345A	PS29	0.000	0.000	0.000	0.000	OK
15.004	15 min Winter	9	PS29	S129	0.035	1.413	4.445	0.121	OK
11.006	30 min Summer	17	S129	S128	0.225	1.009	39.616	1.151	OK
20.000	15 min Winter	8	RE345B	PS243	0.077	0.989	6.436	0.993	OK
20.001	15 min Winter	9	PS243	PS27	0.074	1.022	6.339	0.901	OK
21.000	120 min Summer	86	DF347	PS27	0.026	0.451	0.628	0.035	OK
22.000	15 min Winter	9	PS240	PS27	0.001	0.000	0.000	0.000	OK
20.002	15 min Winter	9	PS27	S128	0.051	1.192	6.383	0.255	OK
23.000	15 min Summer	0	DF348	PS25	0.000	0.000	0.000	0.000	OK
24.000	15 min Summer	0	RE348A	PS25	0.000	0.000	0.000	0.000	OK
25.000	15 min Summer	0	RWP348B	PS25	0.000	0.000	0.000	0.000	OK
23.001	15 min Summer	0	PS25	S128	0.000	0.000	0.000	0.000	OK
11.007	120 min Summer	85	S128	S92	0.225	1.017	25.683	0.728	OK
26.000	15 min Winter	8	RE348B	PS238	0.072	1.069	6.447	0.954	OK
26.001	15 min Winter	8	PS238	PS239	0.055	1.439	6.394	0.722	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
26.002	15 min Winter	8	PS239	PS200	0.045	1.853	6.363	0.417	OK
27.000	15 min Winter	8	RE349A	PS200	0.000	0.000	0.000	0.000	OK
28.000	15 min Winter	25	DF350	PS200	0.025	0.597	0.260	0.005	OK
26.003	15 min Winter	9	PS200	S92	0.050	1.226	6.352	0.244	OK
29.000	60 min Winter	49	S109(D)	S92	0.013	0.565	0.413	0.015	OK
11.008	30 min Winter	28	S92	S93	0.300	1.163	59.260	0.950	Surcharged
11.009	30 min Winter	23	S93	S86	0.300	1.681	60.746	0.905	Surcharged
1.012	30 min Summer	28	S86	S87	0.300	0.429	17.544	0.271	Surcharged
1.013	30 min Winter	28	S87	S163	0.375	0.153	16.860	0.172	Surcharged
30.000	15 min Summer	0	RWP301A	RE301A	0.000	0.000	0.000	0.000	OK
30.001	15 min Winter	8	RE301A	PS363	0.035	0.000	0.000	0.000	OK
30.002	15 min Winter	8	PS363	PS362	0.070	0.874	5.088	0.836	OK
31.000	15 min Summer	0	RWP301C	RE302A	0.000	0.000	0.000	0.000	OK
31.001	15 min Summer	0	RE302A	PS365	0.000	0.000	0.000	0.000	OK
32.000	15 min Summer	0	RWP302B	PS365	0.000	0.000	0.000	0.000	OK
31.002	15 min Winter	8	PS365	PS362	0.019	0.000	0.000	0.000	OK
33.000	15 min Winter	8	DF302	PS362	0.064	0.668	4.844	0.170	OK
30.003	15 min Winter	8	PS362	S69	0.087	0.920	9.747	0.646	OK
30.004	15 min Winter	9	S69	S98	0.172	1.045	34.072	1.088	OK
30.005	15 min Winter	9	S98	S70	0.164	1.494	59.225	0.599	OK
34.000	15 min Summer	0	RE333B	PS273	0.000	0.000	0.000	0.000	OK
34.001	15 min Summer	0	PS273	PS274	0.000	0.000	0.000	0.000	OK
35.000	15 min Summer	0	RWP333B	RE333A	0.000	0.000	0.000	0.000	OK
35.001	15 min Summer	0	RE333A	PS274	0.000	0.000	0.000	0.000	OK
36.000	120 min Summer	82	DF330	PS274	0.018	0.461	0.528	0.012	OK
37.000	120 min Summer	77	DF331	PS274	0.017	0.418	0.453	0.006	OK
34.002	120 min Summer	78	PS274	S70	0.025	0.498	0.974	0.062	OK
30.006	15 min Winter	9	S70	S117	0.213	1.375	89.005	0.523	OK
38.000	15 min Summer	0	RE309B	PS260	0.000	0.000	0.000	0.000	OK
39.000	15 min Summer	0	RWP312B	PS260	0.000	0.000	0.000	0.000	OK
38.001	15 min Summer	0	PS260	PS261	0.000	0.000	0.000	0.000	OK
40.000	15 min Summer	0	RE309A	PS261	0.000	0.000	0.000	0.000	OK
41.000	15 min Summer	0	RWP312A	PS261	0.000	0.000	0.000	0.000	OK
38.002	15 min Summer	0	PS261	S117	0.000	0.000	0.000	0.000	OK
42.000	60 min Winter	49	PS206	S117	0.010	0.831	0.414	0.009	OK
30.007	15 min Winter	9	S117	S114	0.252	1.244	97.346	0.594	OK
43.000	15 min Winter	8	RE330B	PS20	0.064	0.867	4.573	0.747	OK
43.001	15 min Winter	9	PS20	PS23	0.063	0.862	4.485	0.730	OK
44.000	15 min Winter	12	RWP330A	RE330A	0.041	0.110	0.147	0.020	OK
44.001	15 min Winter	8	RE330A	PS23	0.054	1.156	4.980	0.567	OK
45.000	15 min Winter	25	S115	PS23	0.035	0.534	0.260	0.005	OK
43.002	15 min Winter	9	PS23	PS10	0.068	1.226	9.397	0.445	OK
46.000	15 min Summer	0	RWP325C	RE325A	0.000	0.000	0.000	0.000	OK
47.000	15 min Summer	0	ACO325	RE325A	0.000	0.000	0.000	0.000	OK
46.001	15 min Summer	0	RE325A	PS16	0.000	0.000	0.000	0.000	OK
46.002	15 min Winter	8	PS16	PS10	0.008	0.000	0.000	0.000	OK
48.000	15 min Winter	8	RWP325B	RE325B	0.023	0.000	0.000	0.000	OK
48.001	15 min Winter	8	RE325B	PS10	0.045	1.887	6.500	0.419	OK
49.000	15 min Winter	27	DF326	PS10	0.033	0.557	0.289	0.006	OK
43.003	15 min Winter	8	PS10	S114	0.065	2.143	15.807	0.393	OK
30.008	600 min Winter	586	S114	S71	0.321	0.776	29.543	0.189	OK
50.000	15 min Winter	8	YG313	PS257	0.078	0.921	8.529	0.371	OK
51.000	15 min Winter	8	YG316	PS257	0.046	0.000	0.000	0.000	OK
50.001	15 min Winter	9	PS257	PS258	0.092	0.925	10.543	0.710	OK
52.000	15 min Winter	9	RE313A	PS258	0.022	0.000	0.000	0.000	OK
53.000	15 min Winter	9	RE318B	PS258	0.022	0.000	0.000	0.000	OK
50.002	15 min Winter	9	PS258	S71	0.093	0.914	10.551	0.721	OK
54.000	15 min Summer	0	RWP324A	RE324A	0.000	0.000	0.000	0.000	OK
54.001	15 min Summer	0	RE324A	PS5	0.000	0.000	0.000	0.000	OK
54.002	15 min Summer	0	PS5	PS6	0.000	0.000	0.000	0.000	OK
55.000	120 min Summer	78	DF324	PS6	0.013	0.685	0.488	0.020	OK
54.003	600 min Winter	573	PS6	S71	0.076	0.832	0.276	0.005	OK
30.009	600 min Winter	573	S71	S72	0.374	0.671	17.792	0.121	OK
56.000	15 min Summer	0	RE319A	PS285	0.000	0.000	0.000	0.000	OK
57.000	15 min Winter	8	GY319	PS285	0.031	0.645	1.727	0.104	OK
56.001	15 min Winter	8	PS285	PS286	0.050	0.332	1.708	0.090	OK
58.000	15 min Winter	8	RE319B	PS286	0.038	1.035	2.847	0.310	OK
59.000	15 min Winter	8	RWP319D	PS286	0.010	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
56.002	15 min Winter	8	PS286	PS283	0.070	0.918	7.352	0.445	OK
60.000	15 min Summer	0	RE320A	PS288	0.000	0.000	0.000	0.000	OK
61.000	15 min Winter	8	GY320	PS288	0.035	0.554	1.715	0.157	OK
60.001	15 min Winter	8	PS288	PS283	0.050	0.325	1.694	0.099	OK
62.000	15 min Winter	9	RWP320D	PS283	0.010	0.000	0.000	0.000	OK
56.003	15 min Winter	9	PS283	S72	0.069	1.123	8.978	0.443	OK
63.000	15 min Summer	0	GY279	S72	0.000	0.000	0.000	0.000	OK
30.010	60 min Winter	46	S72	S164	0.375	1.443	92.007	0.733	Surcharged
30.011	180 min Summer	92	S164	S163	0.375	2.118	190.880	0.575	Surcharged
1.014	30 min Winter	20	S163	S161	0.375	0.560	45.698	0.208	Surcharged
1.015	1440 min Winter	2846	S161	S162	0.027	1.313	3.500	0.030	OK

Return Period Yrs: 30.0

Climate Change %: 40

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP337B	15 min Winter	10	5.677	0.077	0.000		OK
RE337A	15 min Winter	10	5.677	0.127	5.325		Surcharged
RWP335D	-	0	5.600	0.000	0.000		OK
PS227	15 min Winter	10	5.584	0.159	5.451		Surcharged
RE334A	15 min Winter	9	5.709	0.109	6.319		Surcharged
RWP334A	15 min Winter	10	5.608	0.008	0.004		OK
PS222	15 min Winter	10	5.607	0.157	5.678		Surcharged
PS223	15 min Winter	10	5.493	0.193	11.034		Surcharged
RWP337A	-	0	5.600	0.000	0.000		OK
RE337B	-	0	5.550	0.000	0.000		OK
PS224	15 min Winter	11	5.315	0.065	10.956		OK
S104	15 min Winter	8	5.467	0.042	13.480		OK
S80	15 min Winter	10	4.727	0.252	21.488		Surcharged
S81	15 min Winter	10	4.709	0.294	28.215		Surcharged
S107	60 min Winter	60	5.311	0.011	0.565		OK
S105	60 min Winter	60	5.231	0.010	0.521		OK
S106	15 min Winter	10	4.644	0.336	46.883		Surcharged
S108	60 min Winter	60	5.061	0.011	0.565		OK
S82	720 min Winter	698	4.394	0.276	0.493		Surcharged
S83	720 min Winter	698	4.394	0.394	0.493		Surcharged
S153	720 min Winter	699	4.394	0.444	0.100		Surcharged
S154	720 min Winter	699	4.394	0.464	0.109		Surcharged
S152	720 min Winter	699	4.394	0.544	0.587		Surcharged
S150	720 min Winter	699	4.394	0.669	0.595		Surcharged
RWP338B	15 min Winter	10	5.665	0.215	0.000		Surcharged
RE338A	15 min Winter	10	5.664	0.264	8.998		Surcharged
DF341	60 min Winter	60	5.260	0.010	0.467		OK
PS336	15 min Winter	10	5.171	0.071	9.321		OK
DF338	120 min Winter	89	5.377	0.017	0.666		OK
PS31	120 min Winter	90	5.195	0.020	0.666		OK
PS32	15 min Winter	9	5.041	0.091	12.467		OK
RWP342B	-	0	5.300	0.000	0.000		OK
PS33	15 min Winter	9	4.778	0.078	12.381		OK
S130	15 min Winter	10	4.449	0.419	12.322		Surcharged
RWP343A	15 min Winter	8	5.348	0.048	0.074		OK
RE343B	15 min Winter	8	5.348	0.073	5.888		OK
PS232	15 min Winter	8	5.221	0.071	5.734		OK
RE343A	-	0	5.300	0.000	0.000		OK
RWP344D	-	0	5.300	0.000	0.000		OK
PS233	15 min Winter	9	5.050	0.050	5.706		OK
DF344	60 min Winter	60	5.266	0.016	0.607		OK
RE345A	-	0	5.250	0.000	0.000		OK
PS29	15 min Winter	9	4.890	0.040	5.740		OK
S129	15 min Winter	10	4.437	0.481	49.881		Surcharged
RE345B	15 min Winter	9	5.412	0.162	7.944		Surcharged
PS243	15 min Winter	10	5.206	0.106	7.376		Surcharged
DF347	120 min Winter	101	4.996	0.021	0.761		OK
PS240	-	0	5.250	0.000	0.000		OK
PS27	30 min Summer	17	4.907	0.057	7.639		OK
DF348	-	0	4.950	0.000	0.000		OK
RE348A	-	0	5.075	0.000	0.000		OK
RWP348B	-	0	5.075	0.000	0.000		OK
PS25	-	0	4.850	0.000	0.000		OK
S128	720 min Winter	699	4.394	0.551	0.608		Surcharged
RE348B	15 min Winter	9	5.232	0.157	7.944		Surcharged
PS238	15 min Winter	9	4.976	0.076	7.964		OK
PS239	15 min Winter	9	4.751	0.051	7.955		OK
RE349A	-	0	5.075	0.000	0.000		OK
DF350	60 min Winter	60	5.010	0.010	0.494		OK
PS200	15 min Winter	9	4.536	0.057	7.948		OK
S109(D)	60 min Winter	60	4.739	0.014	0.494		OK
S92	720 min Winter	699	4.394	0.719	0.833		Surcharged
S93	720 min Winter	699	4.394	0.769	0.833		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S86	720 min Winter	699	4.394	0.794	1.426		Surcharged
S87	720 min Winter	699	4.394	0.844	1.420		Flood Risk
RWP301A	-	0	5.700	0.000	0.000		OK
RE301A	-	0	5.675	0.000	0.000		OK
PS363	15 min Winter	8	5.659	0.089	6.740		OK
RWP301C	-	0	5.650	0.000	0.000		OK
RE302A	-	0	5.600	0.000	0.000		OK
RWP302B	-	0	5.650	0.000	0.000		OK
PS365	-	0	5.540	0.000	0.000		OK
DF302	15 min Winter	8	5.548	0.048	6.315		OK
PS362	15 min Winter	8	5.474	0.104	12.805		OK
S69	15 min Winter	9	4.982	0.282	43.209		Surcharged
S98	15 min Winter	9	4.696	0.196	75.157		OK
RE333B	-	0	5.150	0.000	0.000		OK
PS273	-	0	4.700	0.000	0.000		OK
RWP333B	-	0	5.150	0.000	0.000		OK
RE333A	-	0	5.100	0.000	0.000		OK
DF330	120 min Winter	89	4.938	0.013	0.661		OK
DF331	60 min Winter	60	5.109	0.009	0.558		OK
PS274	15 min Winter	10	4.515	0.035	0.003		OK
S70	15 min Winter	9	4.508	0.328	113.985		OK
RE309B	-	0	5.350	0.000	0.000		OK
RWP312B	-	0	5.375	0.000	0.000		OK
PS260	-	0	5.155	0.000	0.000		OK
RE309A	-	0	5.350	0.000	0.000		OK
RWP312A	-	0	5.375	0.000	0.000		OK
PS261	-	0	4.985	0.000	0.000		OK
PS206	60 min Winter	60	4.961	0.011	0.493		OK
S117	15 min Winter	9	4.483	0.403	116.417		Surcharged
RE330B	15 min Winter	8	4.949	0.079	5.999		OK
PS20	15 min Winter	9	4.752	0.077	5.712		OK
RWP330A	15 min Winter	8	4.964	0.039	0.050		OK
RE330A	15 min Winter	8	4.964	0.064	6.599		OK
S115	60 min Winter	60	4.910	0.010	0.494		OK
PS23	15 min Winter	9	4.583	0.083	12.150		OK
RWP325C	-	0	4.925	0.000	0.000		OK
ACO325	-	0	4.895	0.000	0.000		OK
RE325A	-	0	4.870	0.000	0.000		OK
PS16	-	0	4.800	0.000	0.000		OK
RWP325B	-	0	4.925	0.000	0.000		OK
RE325B	15 min Winter	8	4.903	0.053	8.470		OK
DF326	60 min Winter	60	4.862	0.012	0.610		OK
PS10	15 min Winter	9	4.499	0.099	20.157		OK
S114	15 min Winter	9	4.438	0.453	144.542		Surcharged
YG313	15 min Winter	8	5.223	0.073	11.149		OK
YG316	-	0	5.080	0.000	0.000		OK
PS257	15 min Winter	8	4.892	0.112	13.931		OK
RE313A	-	0	5.300	0.000	0.000		OK
RE318B	-	0	5.025	0.000	0.000		OK
PS258	15 min Winter	9	4.807	0.112	13.451		OK
RWP324A	-	0	4.925	0.000	0.000		OK
RE324A	-	0	4.900	0.000	0.000		OK
PS5	-	0	4.700	0.000	0.000		OK
DF324	60 min Winter	60	4.742	0.017	0.611		OK
PS6	60 min Winter	61	4.511	0.011	0.609		OK
S71	720 min Winter	700	4.394	0.504	1.514		Surcharged
RE319A	-	0	5.000	0.000	0.000		OK
GY319	15 min Winter	8	4.822	0.037	2.266		OK
PS285	15 min Winter	8	4.784	0.034	2.242		OK
RE319B	15 min Winter	8	4.944	0.044	3.726		OK
RWP319D	-	0	5.000	0.000	0.000		OK
PS286	15 min Winter	8	4.731	0.081	9.640		OK
RE320A	-	0	4.775	0.000	0.000		OK
GY320	15 min Winter	8	4.693	0.043	2.254		OK
PS288	15 min Winter	8	4.671	0.036	2.228		OK
RWP320D	-	0	4.800	0.000	0.000		OK
PS283	15 min Winter	8	4.631	0.081	11.749		OK
GY279	-	0	4.615	0.000	0.000		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S72	720 min Winter	700	4.394	0.744	1.581		Surcharged
S164	720 min Winter	700	4.394	0.794	1.684		Flood Risk
S163	720 min Winter	700	4.394	0.894	3.124		Surcharged
S161	720 min Winter	705	4.400	0.950	3.540		Flood Risk
S162	960 min Summer	3061	3.327	0.027	3.500		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	11	RWP337B	RE337A	0.089	0.078	0.527	0.040	OK
1.001	30 min Summer	17	RE337A	PS227	0.100	0.895	5.873	0.946	Surcharged
2.000	15 min Summer	8	RWP335D	PS227	0.050	0.000	0.000	0.000	OK
1.002	15 min Winter	12	PS227	PS223	0.100	0.687	5.395	0.863	Surcharged
3.000	15 min Winter	9	RE334A	PS222	0.100	0.954	6.286	0.899	Surcharged
4.000	15 min Winter	11	RWP334A	PS222	0.054	0.022	0.093	0.005	OK
3.001	15 min Winter	9	PS222	PS223	0.100	0.723	5.681	0.886	Surcharged
1.003	15 min Winter	11	PS223	PS224	0.083	1.580	10.966	1.789	OK
5.000	15 min Summer	0	RWP337A	RE337B	0.000	0.000	0.000	0.000	OK
5.001	15 min Winter	11	RE337B	PS224	0.033	0.000	0.000	0.000	OK
1.004	15 min Winter	11	PS224	S80	0.083	2.002	10.969	0.761	OK
6.000	15 min Winter	9	S104	S80	0.095	3.071	13.455	0.172	OK
1.005	30 min Summer	17	S80	S81	0.225	0.838	21.598	0.551	OK
1.006	15 min Winter	10	S81	S106	0.225	0.774	28.561	0.799	OK
7.000	30 min Winter	43	S107	S106	0.076	0.870	0.495	0.010	OK
8.000	30 min Winter	43	S105	S106	0.076	1.071	0.462	0.007	OK
1.007	15 min Winter	10	S106	S82	0.202	1.266	47.684	1.386	OK
9.000	480 min Winter	363	S108	S82	0.078	0.793	0.314	0.006	OK
1.008	480 min Summer	421	S82	S83	0.225	1.038	11.098	0.234	OK
1.009	180 min Winter	129	S83	S152	0.225	1.216	25.459	0.455	OK
10.000	180 min Summer	151	S153	S154	0.300	0.531	5.151	0.086	Surcharged
10.001	120 min Winter	103	S154	S152	0.300	0.290	5.079	0.085	Surcharged
1.010	60 min Winter	56	S152	S150	0.300	0.824	29.553	0.474	Surcharged
1.011	30 min Winter	41	S150	S86	0.300	0.063	4.458	0.076	Surcharged
11.000	30 min Summer	20	RWP338B	RE338A	0.100	0.330	2.000	0.151	Surcharged
11.001	15 min Winter	10	RE338A	PS336	0.096	1.200	9.321	1.333	OK
12.000	15 min Winter	30	DF341	PS336	0.036	0.583	0.348	0.007	OK
11.002	15 min Winter	10	PS336	PS32	0.081	0.973	9.331	0.464	OK
13.000	120 min Winter	89	DF338	PS31	0.018	0.545	0.666	0.027	OK
13.001	15 min Winter	33	PS31	PS32	0.045	0.383	0.433	0.024	OK
11.003	15 min Winter	9	PS32	PS33	0.084	1.210	12.381	0.672	OK
14.000	15 min Winter	9	RWP342B	PS33	0.014	0.000	0.000	0.000	OK
11.004	15 min Winter	10	PS33	S130	0.078	1.328	12.322	0.539	OK
11.005	15 min Winter	12	S130	S129	0.225	0.477	15.115	0.439	OK
15.000	15 min Winter	12	RWP343A	RE343B	0.061	0.135	0.207	0.023	OK
15.001	15 min Winter	8	RE343B	PS232	0.072	0.949	5.734	0.888	OK
15.002	15 min Winter	9	PS232	PS233	0.060	1.157	5.706	0.834	OK
16.000	15 min Winter	9	RE343A	PS233	0.025	0.000	0.000	0.000	OK
17.000	15 min Winter	9	RWP344D	PS233	0.025	0.000	0.000	0.000	OK
15.003	15 min Winter	9	PS233	PS29	0.050	1.473	5.740	0.496	OK
18.000	60 min Winter	60	DF344	PS29	0.016	0.740	0.606	0.056	OK
19.000	15 min Summer	0	RE345A	PS29	0.000	0.000	0.000	0.000	OK
15.004	15 min Winter	9	PS29	S129	0.040	1.521	5.755	0.157	OK
11.006	15 min Winter	9	S129	S128	0.225	1.301	51.717	1.502	OK
20.000	15 min Winter	9	RE345B	PS243	0.100	1.014	7.773	1.199	Surcharged
20.001	15 min Winter	10	PS243	PS27	0.094	1.034	7.551	1.074	OK
21.000	60 min Summer	72	DF347	PS27	0.031	0.503	0.700	0.039	OK
22.000	30 min Summer	17	PS240	PS27	0.003	0.000	0.000	0.000	OK
20.002	30 min Summer	17	PS27	S128	0.057	1.251	7.638	0.305	OK
23.000	15 min Summer	0	DF348	PS25	0.000	0.000	0.000	0.000	OK
24.000	15 min Summer	0	RE348A	PS25	0.000	0.000	0.000	0.000	OK
25.000	15 min Summer	0	RWP348B	PS25	0.000	0.000	0.000	0.000	OK
23.001	15 min Summer	0	PS25	S128	0.000	0.000	0.000	0.000	OK
11.007	30 min Winter	19	S128	S92	0.225	1.329	50.706	1.437	OK
26.000	15 min Winter	9	RE348B	PS238	0.088	1.087	7.964	1.178	OK
26.001	15 min Winter	9	PS238	PS239	0.064	1.504	7.955	0.899	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
26.002	15 min Winter	9	PS239	PS200	0.051	1.961	7.947	0.521	OK
27.000	15 min Winter	9	RE349A	PS200	0.003	0.000	0.000	0.000	OK
28.000	15 min Winter	30	DF350	PS200	0.028	0.660	0.359	0.007	OK
26.003	15 min Winter	9	PS200	S92	0.057	1.300	7.929	0.304	OK
29.000	720 min Winter	698	S109(D)	S92	0.036	0.434	0.173	0.006	OK
11.008	30 min Summer	19	S92	S93	0.300	1.305	84.475	1.355	Surcharged
11.009	15 min Winter	13	S93	S86	0.300	2.191	93.027	1.385	Surcharged
1.012	15 min Winter	20	S86	S87	0.300	0.440	24.448	0.377	Surcharged
1.013	15 min Winter	20	S87	S163	0.375	0.221	24.400	0.248	Surcharged
30.000	15 min Summer	0	RWP301A	RE301A	0.000	0.000	0.000	0.000	OK
30.001	15 min Winter	8	RE301A	PS363	0.045	0.000	0.000	0.000	OK
30.002	15 min Winter	8	PS363	PS362	0.086	0.914	6.521	1.071	OK
31.000	15 min Summer	0	RWP301C	RE302A	0.000	0.000	0.000	0.000	OK
31.001	15 min Summer	0	RE302A	PS365	0.000	0.000	0.000	0.000	OK
32.000	15 min Summer	0	RWP302B	PS365	0.000	0.000	0.000	0.000	OK
31.002	15 min Winter	8	PS365	PS362	0.027	0.000	0.000	0.000	OK
33.000	15 min Winter	8	DF302	PS362	0.076	0.707	6.284	0.220	OK
30.003	15 min Winter	9	PS362	S69	0.104	0.969	12.637	0.838	OK
30.004	15 min Winter	9	S69	S98	0.200	1.164	43.385	1.386	OK
30.005	15 min Winter	9	S98	S70	0.225	1.554	75.831	0.767	OK
34.000	15 min Summer	0	RE333B	PS273	0.000	0.000	0.000	0.000	OK
34.001	15 min Summer	0	PS273	PS274	0.000	0.000	0.000	0.000	OK
35.000	15 min Summer	0	RWP333B	RE333A	0.000	0.000	0.000	0.000	OK
35.001	15 min Summer	0	RE333A	PS274	0.000	0.000	0.000	0.000	OK
36.000	60 min Winter	61	DF330	PS274	0.021	0.497	0.660	0.015	OK
37.000	60 min Winter	61	DF331	PS274	0.019	0.439	0.557	0.008	OK
34.002	15 min Winter	10	PS274	S70	0.069	0.472	1.854	0.119	OK
30.006	15 min Winter	9	S70	S117	0.352	1.393	108.539	0.638	OK
38.000	15 min Summer	0	RE309B	PS260	0.000	0.000	0.000	0.000	OK
39.000	15 min Summer	0	RWP312B	PS260	0.000	0.000	0.000	0.000	OK
38.001	15 min Summer	0	PS260	PS261	0.000	0.000	0.000	0.000	OK
40.000	15 min Summer	0	RE309A	PS261	0.000	0.000	0.000	0.000	OK
41.000	15 min Summer	0	RWP312A	PS261	0.000	0.000	0.000	0.000	OK
38.002	15 min Summer	0	PS261	S117	0.000	0.000	0.000	0.000	OK
42.000	30 min Summer	41	PS206	S117	0.075	0.842	0.433	0.009	OK
30.007	30 min Summer	17	S117	S114	0.375	1.242	111.752	0.682	Surcharged
43.000	15 min Winter	8	RE330B	PS20	0.078	0.904	5.910	0.966	OK
43.001	15 min Winter	9	PS20	PS23	0.077	0.900	5.831	0.949	OK
44.000	15 min Winter	12	RWP330A	RE330A	0.051	0.098	0.175	0.023	OK
44.001	15 min Winter	8	RE330A	PS23	0.064	1.225	6.459	0.736	OK
45.000	15 min Winter	30	S115	PS23	0.041	0.595	0.359	0.007	OK
43.002	15 min Winter	9	PS23	PS10	0.091	1.247	12.175	0.577	OK
46.000	15 min Summer	0	RWP325C	RE325A	0.000	0.000	0.000	0.000	OK
47.000	15 min Summer	0	ACO325	RE325A	0.000	0.000	0.000	0.000	OK
46.001	15 min Summer	0	RE325A	PS16	0.000	0.000	0.000	0.000	OK
46.002	15 min Winter	9	PS16	PS10	0.024	0.000	0.000	0.000	OK
48.000	15 min Winter	8	RWP325B	RE325B	0.026	0.000	0.000	0.000	OK
48.001	15 min Winter	8	RE325B	PS10	0.053	2.014	8.430	0.543	OK
49.000	15 min Winter	31	DF326	PS10	0.049	0.619	0.409	0.008	OK
43.003	15 min Winter	9	PS10	S114	0.124	2.168	19.926	0.496	OK
30.008	15 min Winter	10	S114	S71	0.375	1.329	146.794	0.940	Surcharged
50.000	15 min Winter	8	YG313	PS257	0.092	0.968	11.066	0.482	OK
51.000	15 min Winter	8	YG316	PS257	0.056	0.000	0.000	0.000	OK
50.001	15 min Winter	9	PS257	PS258	0.111	0.975	13.654	0.919	OK
52.000	15 min Winter	9	RE313A	PS258	0.031	0.000	0.000	0.000	OK
53.000	15 min Winter	9	RE318B	PS258	0.031	0.000	0.000	0.000	OK
50.002	15 min Winter	9	PS258	S71	0.110	0.983	13.667	0.934	OK
54.000	15 min Summer	0	RWP324A	RE324A	0.000	0.000	0.000	0.000	OK
54.001	15 min Summer	0	RE324A	PS5	0.000	0.000	0.000	0.000	OK
54.002	15 min Summer	0	PS5	PS6	0.000	0.000	0.000	0.000	OK
55.000	60 min Winter	61	DF324	PS6	0.014	0.732	0.609	0.024	OK
54.003	240 min Winter	173	PS6	S71	0.080	0.996	0.522	0.009	OK
30.009	180 min Summer	161	S71	S72	0.375	0.978	78.662	0.534	Surcharged
56.000	15 min Summer	0	RE319A	PS285	0.000	0.000	0.000	0.000	OK
57.000	15 min Winter	8	GY319	PS285	0.036	0.696	2.242	0.135	OK
56.001	15 min Winter	8	PS285	PS286	0.058	0.353	2.220	0.117	OK
58.000	15 min Winter	8	RE319B	PS286	0.044	1.110	3.694	0.402	OK
59.000	15 min Winter	8	RWP319D	PS286	0.016	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
56.002	15 min Winter	8	PS286	PS283	0.081	0.979	9.545	0.578	OK
60.000	15 min Summer	0	RE320A	PS288	0.000	0.000	0.000	0.000	OK
61.000	15 min Winter	8	GY320	PS288	0.039	0.601	2.228	0.204	OK
60.001	15 min Winter	8	PS288	PS283	0.058	0.346	2.204	0.128	OK
62.000	15 min Winter	8	RWP320D	PS283	0.015	0.000	0.000	0.000	OK
56.003	15 min Winter	9	PS283	S72	0.081	1.198	11.629	0.574	OK
63.000	720 min Winter	700	GY279	S72	0.010	0.000	0.000	0.000	OK
30.010	30 min Winter	19	S72	S164	0.375	2.040	175.635	1.400	Surcharged
30.011	30 min Summer	19	S164	S163	0.375	3.363	214.637	0.647	Surcharged
1.014	30 min Summer	18	S163	S161	0.375	0.618	40.864	0.186	Surcharged
1.015	1440 min Summer	3411	S161	S162	0.027	1.313	3.500	0.030	OK

Return Period Yrs: 100.0

Climate Change %: 45

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP337B	15 min Winter	10	5.792	0.192	0.027		Surcharged
RE337A	15 min Winter	10	5.792	0.242	6.775		Surcharged
RWP335D	15 min Winter	11	5.661	0.061	0.060		OK
PS227	15 min Winter	11	5.660	0.235	6.168		Surcharged
RE334A	15 min Winter	10	5.842	0.242	6.775		Flood Risk
RWP334A	15 min Winter	11	5.694	0.094	0.000		OK
PS222	15 min Winter	11	5.694	0.244	6.316		Surcharged
PS223	15 min Winter	11	5.545	0.245	12.513		Surcharged
RWP337A	-	0	5.600	0.000	0.000		OK
RE337B	-	0	5.550	0.000	0.000		OK
PS224	15 min Winter	11	5.335	0.085	12.474		OK
S104	15 min Winter	8	5.473	0.048	17.471		OK
S80	15 min Winter	10	4.924	0.449	25.742		Surcharged
S81	15 min Winter	10	4.899	0.484	34.014		Surcharged
S107	120 min Winter	97	5.312	0.012	0.660		OK
S105	120 min Winter	96	5.231	0.010	0.594		OK
S106	15 min Winter	10	4.806	0.498	57.751		Surcharged
S108	120 min Winter	97	5.062	0.012	0.660		OK
S82	480 min Winter	387	4.532	0.414	2.471		Surcharged
S83	600 min Winter	451	4.530	0.530	1.689		Surcharged
S153	720 min Winter	524	4.529	0.579	0.566		Surcharged
S154	600 min Winter	451	4.529	0.599	0.091		Surcharged
S152	600 min Winter	451	4.530	0.680	1.728		Surcharged
S150	600 min Winter	474	4.896	1.171	2.810		Flood Risk
RWP338B	15 min Winter	10	5.883	0.433	0.039		Flood Risk
RE338A	15 min Winter	10	5.883	0.483	11.272		Flood Risk
DF341	120 min Winter	96	5.260	0.010	0.516		OK
PS336	15 min Winter	10	5.180	0.080	11.214		OK
DF338	120 min Winter	98	5.379	0.019	0.818		OK
PS31	120 min Winter	98	5.197	0.022	0.818		OK
PS32	15 min Winter	9	5.053	0.103	15.075		OK
RWP342B	-	0	5.300	0.000	0.000		OK
PS33	15 min Winter	10	4.803	0.103	14.931		OK
S130	15 min Winter	10	4.763	0.732	14.653		Surcharged
RWP343A	15 min Winter	9	5.379	0.079	0.038		OK
RE343B	15 min Winter	9	5.379	0.104	7.156		Surcharged
PS232	15 min Winter	8	5.235	0.085	7.121		OK
RE343A	-	0	5.300	0.000	0.000		OK
RWP344D	-	0	5.300	0.000	0.000		OK
PS233	15 min Winter	10	5.056	0.056	7.063		OK
DF344	120 min Winter	97	5.268	0.018	0.726		OK
RE345A	-	0	5.250	0.000	0.000		OK
PS29	30 min Summer	17	4.894	0.044	7.031		OK
S129	15 min Winter	10	4.746	0.790	62.361		Surcharged
RE345B	15 min Winter	9	5.608	0.358	10.295		Flood Risk
PS243	15 min Winter	10	5.313	0.213	9.210		Surcharged
DF347	120 min Winter	123	4.997	0.022	0.859		OK
PS240	-	0	5.250	0.000	0.000		OK
PS27	15 min Winter	10	4.912	0.062	9.127		OK
DF348	-	0	4.950	0.000	0.000		OK
RE348A	-	0	5.075	0.000	0.000		OK
RWP348B	-	0	5.075	0.000	0.000		OK
PS25	-	0	4.850	0.000	0.000		OK
S128	720 min Winter	579	4.549	0.706	0.361		Surcharged
RE348B	15 min Winter	9	5.386	0.311	10.295		Flood Risk
PS238	15 min Winter	10	5.032	0.132	9.502		Surcharged
PS239	15 min Winter	10	4.758	0.058	9.584		OK
RE349A	-	0	5.075	0.000	0.000		OK
DF350	120 min Winter	96	5.011	0.011	0.554		OK
PS200	720 min Winter	520	4.567	0.088	0.436		OK
S109(D)	120 min Winter	96	4.740	0.015	0.555		OK
S92	480 min Winter	372	4.552	0.877	7.003		Surcharged
S93	720 min Winter	535	4.553	0.928	0.000		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S86	600 min Winter	444	4.565	0.965	7.099		Flood Risk
S87	720 min Winter	515	4.546	0.996	7.529		Flood Risk
RWP301A	15 min Winter	9	5.728	0.028	0.381		OK
RE301A	15 min Winter	9	5.729	0.054	0.550		OK
PS363	15 min Winter	9	5.728	0.158	8.191		Surcharged
RWP301C	-	0	5.650	0.000	0.000		OK
RE302A	-	0	5.600	0.000	0.000		OK
RWP302B	-	0	5.650	0.000	0.000		OK
PS365	-	0	5.540	0.000	0.000		OK
DF302	15 min Winter	8	5.555	0.055	8.185		OK
PS362	15 min Winter	9	5.492	0.122	15.298		OK
S69	15 min Winter	10	5.263	0.563	47.205		Surcharged
S98	15 min Winter	10	4.972	0.472	83.390		Surcharged
RE333B	-	0	5.150	0.000	0.000		OK
PS273	30 min Summer	18	4.828	0.128	0.014		Surcharged
RWP333B	-	0	5.150	0.000	0.000		OK
RE333A	-	0	5.100	0.000	0.000		OK
DF330	120 min Winter	98	4.939	0.014	0.812		OK
DF331	120 min Winter	97	5.110	0.010	0.649		OK
PS274	30 min Summer	18	4.817	0.337	0.032		Surcharged
S70	30 min Summer	18	4.809	0.629	115.929		Surcharged
RE309B	-	0	5.350	0.000	0.000		OK
RWP312B	-	0	5.375	0.000	0.000		OK
PS260	-	0	5.155	0.000	0.000		OK
RE309A	-	0	5.350	0.000	0.000		OK
RWP312A	-	0	5.375	0.000	0.000		OK
PS261	-	0	4.985	0.000	0.000		OK
PS206	120 min Winter	96	4.961	0.011	0.554		OK
S117	30 min Summer	18	4.766	0.686	125.950		Surcharged
RE330B	15 min Winter	10	5.059	0.189	6.031		Surcharged
PS20	15 min Winter	11	4.884	0.209	5.519		Surcharged
RWP330A	15 min Winter	9	4.981	0.056	0.137		OK
RE330A	15 min Winter	9	4.981	0.081	8.019		OK
S115	120 min Winter	96	4.911	0.011	0.555		OK
PS23	30 min Summer	18	4.788	0.288	11.678		Surcharged
RWP325C	-	0	4.925	0.000	0.000		OK
ACO325	-	0	4.895	0.000	0.000		OK
RE325A	-	0	4.870	0.000	0.000		OK
PS16	-	0	4.800	0.000	0.000		OK
RWP325B	-	0	4.925	0.000	0.000		OK
RE325B	15 min Winter	9	4.918	0.068	10.293		OK
DF326	120 min Winter	97	4.863	0.013	0.731		OK
PS10	30 min Summer	18	4.758	0.358	19.451		Surcharged
S114	30 min Summer	18	4.713	0.728	155.626		Surcharged
YG313	15 min Winter	8	5.235	0.085	14.449		OK
YG316	-	0	5.080	0.000	0.000		OK
PS257	15 min Winter	9	4.942	0.162	17.126		Surcharged
RE313A	-	0	5.300	0.000	0.000		OK
RE318B	-	0	5.025	0.000	0.000		OK
PS258	15 min Winter	9	4.840	0.145	17.220		OK
RWP324A	-	0	4.925	0.000	0.000		OK
RE324A	-	0	4.900	0.000	0.000		OK
PS5	-	0	4.700	0.000	0.000		OK
DF324	120 min Winter	97	4.744	0.019	0.732		OK
PS6	30 min Summer	18	4.626	0.126	0.010		OK
S71	30 min Summer	18	4.625	0.735	209.755		Surcharged
RE319A	-	0	5.000	0.000	0.000		OK
GY319	15 min Winter	8	4.827	0.042	2.937		OK
PS285	15 min Winter	8	4.789	0.039	2.910		OK
RE319B	15 min Winter	8	4.951	0.051	4.829		OK
RWP319D	-	0	5.000	0.000	0.000		OK
PS286	15 min Winter	8	4.746	0.096	12.504		OK
RE320A	-	0	4.775	0.000	0.000		OK
GY320	15 min Winter	8	4.698	0.048	2.921		OK
PS288	15 min Winter	8	4.676	0.041	2.891		OK
RWP320D	-	0	4.800	0.000	0.000		OK
PS283	15 min Winter	8	4.646	0.096	15.244		OK
GY279	-	0	4.615	0.000	0.000		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S72	720 min Winter	523	4.532	0.882	8.220		Surcharged
S164	720 min Winter	523	4.531	0.931	9.354		Flood Risk
S163	720 min Winter	522	4.531	1.031	9.121		Flood Risk
S161	720 min Winter	515	4.536	1.086	3.586		Flood Risk
S162	960 min Summer	3782	3.327	0.027	3.500		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	14	RWP337B	RE337A	0.100	0.386	1.707	0.130	Surcharged
1.001	15 min Winter	9	RE337A	PS227	0.100	0.889	6.879	1.108	Surcharged
2.000	15 min Winter	13	RWP335D	PS227	0.080	0.120	0.647	0.066	OK
1.002	15 min Winter	11	PS227	PS223	0.100	0.770	6.051	0.968	Surcharged
3.000	15 min Winter	9	RE334A	PS222	0.100	0.974	7.652	1.095	Surcharged
4.000	15 min Winter	13	RWP334A	PS222	0.097	0.142	0.799	0.043	OK
3.001	15 min Winter	10	PS222	PS223	0.100	0.832	6.533	1.019	Surcharged
1.003	15 min Winter	11	PS223	PS224	0.092	1.692	12.474	2.036	OK
5.000	15 min Summer	0	RWP337A	RE337B	0.000	0.000	0.000	0.000	OK
5.001	15 min Winter	11	RE337B	PS224	0.043	0.000	0.000	0.000	OK
1.004	15 min Winter	12	PS224	S80	0.092	2.027	12.605	0.875	OK
6.000	15 min Winter	8	S104	S80	0.099	3.060	17.441	0.223	OK
1.005	15 min Winter	10	S80	S81	0.225	0.842	25.765	0.658	OK
1.006	15 min Winter	10	S81	S106	0.225	0.855	34.015	0.952	OK
7.000	60 min Summer	71	S107	S106	0.079	0.939	0.629	0.013	OK
8.000	60 min Summer	71	S105	S106	0.079	1.138	0.572	0.009	OK
1.007	480 min Winter	387	S106	S82	0.225	0.815	9.264	0.269	OK
9.000	120 min Winter	97	S108	S82	0.081	0.522	0.660	0.013	OK
1.008	180 min Summer	129	S82	S83	0.225	1.326	27.776	0.586	OK
1.009	60 min Winter	49	S83	S152	0.225	1.551	40.132	0.718	OK
10.000	600 min Winter	474	S153	S154	0.300	0.367	21.621	0.362	Surcharged
10.001	600 min Winter	474	S154	S152	0.300	0.309	21.866	0.368	Surcharged
1.010	600 min Winter	477	S152	S150	0.300	0.729	51.565	0.827	Surcharged
1.011	30 min Winter	44	S150	S86	0.300	0.067	4.717	0.080	Surcharged
11.000	15 min Winter	14	RWP338B	RE338A	0.100	0.523	3.338	0.252	Surcharged
11.001	30 min Summer	18	RE338A	PS336	0.100	1.397	10.972	1.570	Surcharged
12.000	30 min Summer	50	DF341	PS336	0.040	0.637	0.466	0.009	OK
11.002	15 min Winter	10	PS336	PS32	0.091	1.026	11.214	0.558	OK
13.000	120 min Winter	98	DF338	PS31	0.020	0.579	0.818	0.033	OK
13.001	60 min Summer	73	PS31	PS32	0.052	0.464	0.765	0.043	OK
11.003	15 min Winter	10	PS32	PS33	0.102	1.248	15.105	0.820	OK
14.000	15 min Winter	10	RWP342B	PS33	0.026	0.000	0.000	0.000	OK
11.004	15 min Winter	11	PS33	S130	0.126	1.362	14.831	0.649	OK
11.005	15 min Winter	12	S130	S129	0.225	0.467	18.555	0.539	OK
15.000	15 min Winter	10	RWP343A	RE343B	0.090	0.153	0.552	0.061	OK
15.001	15 min Winter	9	RE343B	PS232	0.092	0.971	7.121	1.103	OK
15.002	15 min Winter	10	PS232	PS233	0.071	1.193	7.063	1.032	OK
16.000	15 min Winter	10	RE343A	PS233	0.028	0.000	0.000	0.000	OK
17.000	15 min Winter	10	RWP344D	PS233	0.028	0.000	0.000	0.000	OK
15.003	15 min Winter	10	PS233	PS29	0.056	1.546	7.039	0.609	OK
18.000	120 min Winter	97	DF344	PS29	0.018	0.781	0.726	0.068	OK
19.000	15 min Summer	0	RE345A	PS29	0.000	0.000	0.000	0.000	OK
15.004	15 min Winter	10	PS29	S129	0.095	1.606	7.032	0.191	OK
11.006	15 min Winter	10	S129	S128	0.225	1.581	62.876	1.826	OK
20.000	15 min Winter	9	RE345B	PS243	0.100	1.209	9.495	1.465	Surcharged
20.001	15 min Winter	10	PS243	PS27	0.096	1.176	9.127	1.298	OK
21.000	60 min Summer	88	DF347	PS27	0.036	0.531	0.792	0.044	OK
22.000	15 min Winter	10	PS240	PS27	0.006	0.000	0.000	0.000	OK
20.002	15 min Winter	10	PS27	S128	0.062	1.312	9.110	0.364	OK
23.000	15 min Summer	0	DF348	PS25	0.000	0.000	0.000	0.000	OK
24.000	15 min Summer	0	RE348A	PS25	0.000	0.000	0.000	0.000	OK
25.000	15 min Summer	0	RWP348B	PS25	0.000	0.000	0.000	0.000	OK
23.001	15 min Summer	0	PS25	S128	0.000	0.000	0.000	0.000	OK
11.007	15 min Winter	10	S128	S92	0.225	1.797	71.456	2.025	OK
26.000	30 min Summer	17	RE348B	PS238	0.100	1.262	9.856	1.458	Surcharged
26.001	15 min Winter	10	PS238	PS239	0.079	1.506	9.584	1.083	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
26.002	15 min Winter	10	PS239	PS200	0.058	2.051	9.587	0.629	OK
27.000	720 min Winter	520	RE349A	PS200	0.019	0.000	0.000	0.000	OK
28.000	720 min Winter	520	DF350	PS200	0.046	0.278	0.222	0.004	OK
26.003	720 min Winter	527	PS200	S92	0.119	0.729	5.427	0.208	OK
29.000	360 min Winter	261	S109(D)	S92	0.079	0.545	0.364	0.013	OK
11.008	15 min Winter	11	S92	S93	0.300	1.511	105.464	1.691	Surcharged
11.009	15 min Winter	11	S93	S86	0.300	2.185	102.379	1.525	Surcharged
1.012	30 min Winter	17	S86	S87	0.300	0.437	8.667	0.134	Surcharged
1.013	1440 min Summer	1296	S87	S163	0.375	0.154	9.657	0.098	Surcharged
30.000	15 min Winter	10	RWP301A	RE301A	0.041	0.187	0.334	0.031	OK
30.001	15 min Winter	11	RE301A	PS363	0.077	0.184	0.962	0.159	OK
30.002	15 min Winter	9	PS363	PS362	0.094	0.992	7.587	1.247	OK
31.000	15 min Summer	0	RWP301C	RE302A	0.000	0.000	0.000	0.000	OK
31.001	15 min Summer	0	RE302A	PS365	0.000	0.000	0.000	0.000	OK
32.000	15 min Summer	0	RWP302B	PS365	0.000	0.000	0.000	0.000	OK
31.002	15 min Winter	9	PS365	PS362	0.036	0.000	0.000	0.000	OK
33.000	15 min Winter	8	DF302	PS362	0.088	0.758	8.149	0.285	OK
30.003	15 min Winter	9	PS362	S69	0.118	1.033	15.442	1.024	OK
30.004	15 min Winter	9	S69	S98	0.225	1.333	52.831	1.688	OK
30.005	30 min Summer	16	S98	S70	0.300	1.548	84.730	0.857	Surcharged
34.000	15 min Winter	10	RE333B	PS273	0.050	0.000	0.000	0.000	OK
34.001	30 min Summer	19	PS273	PS274	0.100	0.228	1.299	0.188	Surcharged
35.000	15 min Summer	0	RWP333B	RE333A	0.000	0.000	0.000	0.000	OK
35.001	15 min Summer	9	RE333A	PS274	0.050	0.000	0.000	0.000	OK
36.000	60 min Summer	72	DF330	PS274	0.079	0.523	0.760	0.018	OK
37.000	60 min Summer	71	DF331	PS274	0.078	0.448	0.620	0.009	OK
34.002	15 min Winter	13	PS274	S70	0.150	0.633	8.336	0.533	Surcharged
30.006	15 min Winter	9	S70	S117	0.375	1.400	122.287	0.719	Surcharged
38.000	15 min Summer	0	RE309B	PS260	0.000	0.000	0.000	0.000	OK
39.000	15 min Summer	0	RWP312B	PS260	0.000	0.000	0.000	0.000	OK
38.001	15 min Summer	0	PS260	PS261	0.000	0.000	0.000	0.000	OK
40.000	15 min Summer	0	RE309A	PS261	0.000	0.000	0.000	0.000	OK
41.000	15 min Summer	0	RWP312A	PS261	0.000	0.000	0.000	0.000	OK
38.002	15 min Summer	0	PS261	S117	0.000	0.000	0.000	0.000	OK
42.000	60 min Summer	71	PS206	S117	0.079	0.900	0.536	0.011	OK
30.007	15 min Winter	10	S117	S114	0.375	1.244	132.069	0.806	Surcharged
43.000	30 min Summer	16	RE330B	PS20	0.100	0.916	6.663	1.089	Surcharged
43.001	15 min Winter	9	PS20	PS23	0.100	0.914	6.775	1.103	Surcharged
44.000	15 min Winter	11	RWP330A	RE330A	0.068	0.101	0.406	0.054	OK
44.001	15 min Winter	9	RE330A	PS23	0.090	1.256	8.382	0.954	OK
45.000	30 min Summer	50	S115	PS23	0.077	0.656	0.492	0.010	OK
43.002	30 min Summer	16	PS23	PS10	0.150	1.266	14.237	0.675	Surcharged
46.000	15 min Summer	0	RWP325C	RE325A	0.000	0.000	0.000	0.000	OK
47.000	15 min Summer	0	ACO325	RE325A	0.000	0.000	0.000	0.000	OK
46.001	15 min Summer	0	RE325A	PS16	0.000	0.000	0.000	0.000	OK
46.002	15 min Summer	9	PS16	PS10	0.050	0.000	0.000	0.000	OK
48.000	15 min Winter	9	RWP325B	RE325B	0.034	0.000	0.000	0.000	OK
48.001	15 min Winter	9	RE325B	PS10	0.084	2.100	10.919	0.704	OK
49.000	60 min Summer	72	DF326	PS10	0.079	0.753	0.691	0.014	OK
43.003	30 min Summer	16	PS10	S114	0.150	2.162	21.478	0.535	Surcharged
30.008	15 min Winter	10	S114	S71	0.375	1.475	162.925	1.043	Surcharged
50.000	15 min Winter	8	YG313	PS257	0.118	1.003	14.351	0.625	OK
51.000	15 min Winter	8	YG316	PS257	0.075	0.000	0.000	0.000	OK
50.001	15 min Winter	9	PS257	PS258	0.148	1.008	17.220	1.159	OK
52.000	15 min Winter	9	RE313A	PS258	0.048	0.000	0.000	0.000	OK
53.000	15 min Winter	9	RE318B	PS258	0.048	0.000	0.000	0.000	OK
50.002	15 min Winter	9	PS258	S71	0.133	1.046	17.244	1.178	OK
54.000	15 min Summer	0	RWP324A	RE324A	0.000	0.000	0.000	0.000	OK
54.001	15 min Summer	0	RE324A	PS5	0.000	0.000	0.000	0.000	OK
54.002	30 min Summer	18	PS5	PS6	0.038	0.000	0.000	0.000	OK
55.000	30 min Summer	51	DF324	PS6	0.064	0.731	0.608	0.024	OK
54.003	30 min Summer	19	PS6	S71	0.138	0.240	1.653	0.029	OK
30.009	15 min Winter	10	S71	S72	0.375	2.007	221.688	1.504	Surcharged
56.000	15 min Summer	0	RE319A	PS285	0.000	0.000	0.000	0.000	OK
57.000	15 min Winter	8	GY319	PS285	0.041	0.749	2.910	0.175	OK
56.001	15 min Winter	8	PS285	PS286	0.068	0.372	2.885	0.152	OK
58.000	15 min Winter	8	RE319B	PS286	0.051	1.185	4.791	0.521	OK
59.000	15 min Winter	8	RWP319D	PS286	0.023	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
56.002	15 min Winter	8	PS286	PS283	0.096	1.037	12.380	0.749	OK
60.000	15 min Summer	0	RE320A	PS288	0.000	0.000	0.000	0.000	OK
61.000	15 min Winter	8	GY320	PS288	0.045	0.652	2.891	0.265	OK
60.001	15 min Winter	8	PS288	PS283	0.068	0.365	2.864	0.167	OK
62.000	15 min Winter	8	RWP320D	PS283	0.023	0.000	0.000	0.000	OK
56.003	15 min Winter	9	PS283	S72	0.095	1.270	15.063	0.743	OK
63.000	360 min Summer	348	GY279	S72	0.075	0.000	0.000	0.000	OK
30.010	15 min Winter	11	S72	S164	0.375	2.365	233.537	1.861	Surcharged
30.011	15 min Winter	11	S164	S163	0.375	4.517	254.915	0.769	Surcharged
1.014	30 min Summer	16	S163	S161	0.375	0.570	48.729	0.222	Surcharged
1.015	960 min Summer	3782	S161	S162	0.027	1.313	3.500	0.030	OK