Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
RWP228A	0.000	0.180	Type E	5.701	5.150	0.451	488618.042	97803.657
RE228A	0.000	0.180	Type E	5.708	5.100	0.508	488617.384	97802.535
RWP228C	0.000	0.180	Type E	5.697	5.150	0.447	488606.297	97803.821
RE228B	0.000	0.180	Type E	5.666	5.100	0.466	488606.491	97802.728
PS777	0.000	0.250	250	5.698	5.015	0.583	488611.651	97808.116
PS834	0.000	0.250	250	5.688	5.000	0.588	488611.092	97810.021
DF228	0.008	0.180	Type E	5.640	4.975	0.515	488618.387	97819.470
PS111	0.000	0.450	Type E	5.714	4.750	0.814	488621.212	97820.066
S28	0.044	1.350	Type C	5.709	4.300	1.184	488627.950	97820.432
ACO235	0.000	0.180	Type E	5.523	4.970	0.453	488651.189	97842.602
RWP235C	0.000	0.180	Type E	5.550	5.000	0.450	488650.382	97839.961
RE235A	0.005	0.180	Type E	5.566	4.875	0.591	488650.888	97839.145
DF235	0.007	0.180	Type E	5.587	4.800	0.637	488645.101	97834.738
RWP235A	0.000	0.180	Type E	5.563	5.000	0.463	488641.880	97836.173
PS107	0.000	0.450	Type E	5.628	4.700	0.778	488641.449	97835.167
S54	0.000	1.350	Type C	5.648	4.350	1.073	488638.802	97832.619
RWP239B	0.000	0.180	Type E	5.933	5.375	0.458	488669.182	97814.948
RE239B	0.000	0.180	Type E	5.974	5.350	0.524	488670.245	97815.388
RWP238B	0.000	0.180	Type E	5.925	5.375	0.450	488661.763	97822.638
PS253	0.000	0.250	250	5.913	5.225	0.588	488662.676	97822.784
RE236B	0.010	0.180	Type E	5.699	5.100	0.499	488654.428	97835.073
PS251	0.000	0.450	450	5.773	4.900	0.773	488659.634	97826.397
RE236A	0.000	0.180	Type E	5.737	5.100	0.537	488644.696	97829.284
DF237	0.007	0.180	Type E	5.826	5.100	0.626	488654.806	97821.659
PS109	0.000	0.450	450	5.878	4.750	1.028	488650.413	97820.462
RWP239A	0.000	0.180	Type E	5.936	5.375	0.461	488662.537	97808.428
RE239A	0.011	0.180	Type E	6.033	5.350	0.583	488661.524	97807.299
RWP238A	0.000	0.180	Type E	5.945	5.375	0.470	488655.048	97816.144
PS255	0.000	0.450	Type E	5.958	5.000	0.858	488653.830	97815.717
S53	0.016	1.350	Type C	5.861	4.250	1.386	488649.581	97816.924
DF226	0.007	0.180	Type E	5.777	5.175	0.502	488638.272	97798.884
RWP227B	0.000	0.180	Type E	5.793	5.225	0.468	488638.476	97802.746
PS115	0.000	0.450	Type E	5.893	4.900	0.893	488641.258	97803.197
S27	0.010	1.350	Type C	5.862	4.175	1.462	488647.976	97804.459
PS793	0.006	0.250	Unknown	5.907	5.200	0.607	488689.905	97798.608
RE221B	0.000	0.250	250	5.963	5.400	0.463	488676.537	97802.289
PS792	0.000	0.450	450	5.946	5.050	0.796	488680.536	97806.696
RWP220C	0.000	0.180	Type E	5.925	5.350	0.475	488690.946	97804.326
RE220A	0.010	0.180	Type E	5.908	5.200	0.608	488690.144	97803.529
DF220	0.008	0.180	Type E	5.860	5.200	0.510	488683.051	97807.119
RWP220A	0.000	0.180	Type E	5.935	5.350	0.485	488684.626	97811.251
PS782	0.000	0.450	450	5.950	4.850	0.950	488683.646	97811.042
DF240	0.007	0.180	Type E	5.927	5.225	0.602	488675.793	97824.712
PS143	0.000	0.450	Type E	6.085	5.150	0.835	488678.117	97822.195
S135	0.038	1.350	Type C	5.874	4.575	1.074	488677.686	97814.368
RE222A	0.000	0.180	Type E	5.842	5.275	0.467	488683.064	97791.494
RWP223E	0.003	0.180	Type E	5.775	5.200	0.475	488678.008	97784.166
PS798	0.015	0.250	250	5.795	5.150	0.545	488678.551	97786.137
ACO222	0.004	0.180	Type E	5.853	5.150	0.603	488675.447	97798.718
RWP222A	0.000	0.180	Type E	5.868	5.300	0.468	488674.819	97798.735
PS90	0.000	0.450	450	5.875	5.100	0.675	488674.169	97800.271
RWP223C	0.000	0.180	Type E	5.785	5.200	0.485	488667.965	97792.969
PS742	0.000	0.450	450	5.859	5.000	0.759	488668.018	97795.280
S151	0.000	1.350	Type C	5.712	4.100	1.387	488661.397	97795.409
RE223A	0.000	0.180	Type E	5.450	4.900	0.450	488683.293	97779.055
ACO224B	0.000	0.180	Type E	5.595	5.045	0.450	488668.627	97775.597
PS829	0.009	0.450	450	5.668	4.750	0.818	488669.104	97778.315
PS744	0.000	0.450	450	5.730	4.620	1.010	488659.060	97785.913
RWP225B	0.000	0.180	Type E	5.550	5.000	0.450	488661.374	97771.222
RE225A	0.000	0.180	Type E	5.544	4.950	0.494	488661.443	97770.643
PS830	0.000	0.250	250	5.539	4.850	0.589	488657.819	97765.801
GY225	0.000	0.250	250	5.487	4.875	0.462	488649.570	97769.326
PS746	0.000	0.450	450	5.574	4.400	1.024	488648.591	97772.761
PS745	0.000	0.450	450	5.672	4.322	1.199	488654.865	97780.515

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
S24	0.048	1.350	Type C	5.546	4.025	1.296	488651.428	97783.017
RE202A	0.000	0.180	Type E	5.315	4.700	0.515	488650.833	97755.642
PS666	0.000	0.450	450	5.379	4.500	0.779	488640.593	97760.996
RWP202B	0.000	0.180	Type E	5.339	4.700	0.539	488636.838	97751.837
PS667	0.000	0.450	450	5.336	4.250	0.936	488635.015	97752.842
S25	0.010	1.350	Type C	5.275	3.850	1.200	488631.555	97754.950
RWP204C	0.000	0.180	Type E	5.549	4.800	0.649	488680.588	97757.275
RE204A	0.000	0.180	Type E	5.540	4.750	0.690	488680.234	97757.707
RWP204G	0.000	0.180	Type E	5.549	4.800	0.649	488671.539	97752.485
ACO204	0.000	0.180	Type E	5.526	4.970	0.456	488677.052	97756.834
PS649	0.005	0.450	450	5.556	4.650	0.806	488675.600	97755.769
RWP204E	0.000	0.180	Type E	5.565	4.800	0.665	488682.264	97748.100
PS147	0.000	0.450	450	5.582	4.450	1.032	488682.005	97746.992
DF204	0.006	0.180	Type E	5.550	4.900	0.500	488678.791	97747.662
RWP203A	0.000	0.180	Type E	5.495	4.900	0.495	488671.134	97741.620
PS652	0.000	0.450	450	5.593	4.250	1.193	488672.507	97741.110
S14	0.029	1.350	Type C	5.325	4.000	1.100	488667.799	97733.433
RWP202D	0.000	0.180	Type E	5.325	4.700	0.525	488646.174	97748.014
DF202	0.005	0.180	Type E	5.267	4.600	0.517	488651.488	97746.582
PS151	0.013	0.450	Type E	5.436	4.450	0.836	488649.425	97742.672
S15	0.018	1.350	Type C	5.158	3.880	1.053	488642.234	97738.298
S26	0.049	1.350	Type C	5.146	3.800	1.121	488627.462	97746.864
RE201A	0.000	0.180	Type E	5.295	4.650	0.545	488628.484	97779.093
ACO201	0.000	0.180	Type E	5.222	4.670	0.452	488626.960	97771.775
PS669	0.000	0.450	450	5.250	4.500	0.650	488624.469	97772.134
YG201A	0.000	0.180	Type E	5.258	4.600	0.558	488623.546	97773.561
PS670	0.000	0.450	450	5.276	4.450	0.726	488622.609	97773.227
RWP201A	0.000	0.180	Type E	5.406	4.700	0.606	488630.504	97767.091
RE201B	0.000	0.180	Type E	5.438	4.650	0.688	488630.804	97766.657
PS678	0.000	0.450	450	5.403	4.500	0.803	488625.179	97757.372
RWP200D	0.000	0.180	Type E	5.335	4.700	0.535	488614.347	97763.683
PS157	0.000	0.450	450	5.268	4.275	0.893	488615.299	97761.422
RWP200C	0.000	0.180	Type E	5.475	4.900	0.475	488615.348	97783.502
RE200C	0.004	0.180	Type E	5.473	4.800	0.573	488616.079	97783.413
ACO200	0.000	0.180	Type E	5.295	4.745	0.450	488613.672	97776.690
PS799	0.000	0.250	250	5.325	4.725	0.500	488612.286	97777.012
RWP200F	0.000	0.180	Type E	5.482	4.900	0.482	488607.218	97780.963
RWP200A	0.000	0.180	Type E	5.367	4.800	0.467	488610.663	97776.336
PS200A	0.000	0.450	450	5.391	4.700	0.591	488609.844	97776.844
DF200	0.007	0.180	Type E	5.400	4.750	0.500	488604.784	97771.682
RWP200E	0.010	0.180	Type E	5.351	4.700	0.551	488606.408	97768.552
PS153	0.000	0.450	450	5.449	4.525	0.774	488604.424	97767.643
S131	0.008	1.350	Unknown	4.974	4.200	0.624	488601.163	97756.194
S132	0.000	1.350	Type C	5.192	3.723	1.097	488600.800	97762.325
RWP199A	0.000	0.180	Type E	5.625	4.700	0.825	488605.596	97779.594
PS680	0.000	0.450	450	5.468	4.525	0.843	488606.365	97781.042
RWP199C	0.000	0.180	Type E	5.475	4.700	0.675	488593.028	97788.191
PS681	0.000	0.450	450	5.472	4.375	0.997	488595.777	97787.522
RE200B	0.013	0.180	Type E	5.497	4.650	0.747	488599.878	97770.271
DF199	0.005	0.180	Type E	5.428	4.750	0.528	488587.355	97782.366
RWP199E	0.000	0.180	Type E	5.493	4.700	0.693	488592.933	97776.744
PS155	0.000	0.450	450	5.570	4.225	1.195	488588.840	97776.626
S16	0.020	1.350	Type C	5.338	3.666	1.297	488581.016	97773.798
DF231	0.005	0.180	Type E	5.559	4.900	0.509	488587.537	97855.979
PS101	0.000	0.450	450	5.551	4.800	0.601	488587.728	97860.161
RWP195F	0.000	0.180	Type E	5.303	4.700	0.503	488580.070	97852.398
GY195	0.006	0.180	Type E	5.379	4.775	0.454	488579.663	97860.999
PS98	0.010	0.450	450	5.401	4.400	0.851	488579.832	97859.349
PS100	0.000	0.450	450	5.210	4.325	0.735	488569.848	97858.383
S136	0.000	1.350	Type C	5.076	4.250	0.676	488562.084	97853.624
RWP196A	0.000	0.180	Type E	5.357	4.800	0.457	488574.502	97821.472
RE196B	0.000	0.180	Type E	5.390	4.650	0.640	488572.354	97822.727
DF196	0.007	0.180	Type E	5.274	4.500	0.624	488570.961	97835.366
PS44	0.010	0.450	450	5.361	4.350	0.861	488571.595	97828.836
S102	0.048	1.350	Type C	5.148	4.000	0.923	488564.709	97828.069
RWP197F	0.000	0.180	Type E	5.622	4.900	0.622	488595.753	97819.731
RE197B	0.002	0.180	Type E	5.620	4.850	0.670	488596.558	97816.232
DF197	0.005	0.180	Type E	5.515	4.750	0.615	488583.720	97820.444

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
PS163	0.000	0.450	Type E	5.537	4.650	0.737	488584.425	97815.044
PS164	0.010	0.450	Type E	5.536	4.550	0.836	488573.977	97813.754
RWP197B	0.000	0.180	Type E	5.485	4.900	0.485	488577.524	97803.743
PS165	0.000	0.450	Type E	5.635	4.400	1.085	488574.279	97801.470
ACO198	0.000	0.180	Type E	5.595	5.045	0.450	488590.691	97788.764
RE198B	0.000	0.180	Type E	5.560	5.000	0.460	488590.377	97786.223
PS160	0.010	0.450	450	5.646	4.850	0.696	488581.666	97782.165
PS161	0.000	0.450	Type E	5.697	4.700	0.897	488576.380	97790.808
RE198A	0.004	0.180	Type E	5.614	4.900	0.614	488590.818	97805.892
RWP198E	0.000	0.180	Type E	5.619	5.075	0.444	488584.640	97802.420
PS683	0.000	0.450	450	5.557	4.800	0.657	488583.847	97802.736
DF198	0.009	0.180	Type E	5.543	4.775	0.618	488577.407	97801.028
PS159	0.000	0.450	450	5.683	4.600	0.983	488574.905	97795.627
S22	0.000	1.350	Type C	5.493	3.825	1.443	488568.590	97793.710
S17	0.000	1.350	Type C	5.426	3.631	1.431	488572.185	97784.741
S18	0.000	0.000	Type C	5.000	3.600	1.025	488564.217	97783.628
S19	0.078	0.000	Type C	5.000	3.550	1.075	488560.053	97784.185
S20	0.000	1.350	Type C	4.975	3.500	1.250	488557.958	97779.484
S21	0.000	0.000	Type C	3.750	3.000	0.525	488558.111	97770.779

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	RWP228A	5.150	RE228A	5.100	Circ	0.1mØ	1.300	26.0	0.600	0.451
1.001	RE228A	5.100	PS777	5.015	Circ	0.1mØ	8.000	94.1	0.600	0.508
2.000	RWP228C	5.150	RE228B	5.100	Circ	0.1mØ	1.110	22.2	0.600	0.447
2.001	RE228B	5.100	PS777	5.015	Circ	0.1mØ	7.461	87.8	0.600	0.466
1.002	PS777	5.015	PS834	5.000	Circ	0.1mØ	1.985	132.4	0.600	0.583
1.003	PS834	5.000	PS111	4.800	Circ	0.1mØ	14.259	71.3	0.600	0.588
3.000	DF228	4.975	PS111	4.750	Circ	0.15mØ	2.887	12.8	0.600	0.515
1.004	PS111	4.750	S28	4.375	Circ	0.15mØ	6.747	18.0	0.600	0.814
1.005	S28	4.300	S27	4.175	Circ	0.225mØ	25.616	204.9	0.600	1.184
4.000	ACO235	4.970	RE235A	4.875	Circ	0.1mØ	3.470	36.5	0.600	0.453
5.000	RWP235C	5.000	RE235A	4.875	Circ	0.1mØ	0.960	7.7	0.600	0.450
4.001	RE235A	4.875	PS107	4.750	Circ	0.1mØ	10.244	81.9	0.600	0.591
6.000	DF235	4.800	PS107	4.700	Circ	0.15mØ	3.677	36.8	0.600	0.637
7.000	RWP235A	5.000	PS107	4.750	Circ	0.1mØ	1.095	4.4	0.600	0.463
4.002	PS107	4.700	S54	4.425	Circ	0.15mØ	3.674	13.4	0.600	0.778
4.003	S54	4.350	S53	4.250	Circ	0.225mØ	19.040	190.4	0.600	1.073
8.000	RWP239B	5.375	RE239B	5.350	Circ	0.1mØ	1.150	46.0	0.600	0.458
8.001	RE239B	5.350	PS253	5.225	Circ	0.1mØ	10.583	84.7	0.600	0.524
9.000	RWP238B	5.375	PS253	5.225	Circ	0.1mØ	0.925	6.2	0.600	0.450
8.002	PS253	5.225	PS251	4.900	Circ	0.1mØ	4.723	14.5	0.600	0.588
10.000	RE236B	5.100	PS251	4.900	Circ	0.1mØ	10.118	50.6	0.600	0.499
8.003	PS251	4.900	PS109	4.750	Circ	0.1mØ	10.966	73.1	0.600	0.773
11.000	RE236A	5.100	PS109	4.750	Circ	0.1mØ	10.512	30.0	0.600	0.537
12.000	DF237	5.100	PS109	4.750	Circ	0.1mØ	4.554	13.0	0.600	0.626
8.004	PS109	4.750	S53	4.375	Circ	0.1mØ	3.634	9.7	0.600	1.028
13.000	RWP239A	5.375	RE239A	5.350	Circ	0.1mØ	1.517	60.7	0.600	0.461
13.001	RE239A	5.350	PS255	5.000	Circ	0.1mØ	11.404	32.6	0.600	0.583
14.000	RWP238A	5.375	PS255	5.000	Circ	0.1mØ	1.291	3.4	0.600	0.470
13.002	PS255	5.000	S53	4.375	Circ	0.1mØ	4.417	7.1	0.600	0.858
4.004	S53	4.250	S27	4.175	Circ	0.225mØ	12.568	167.6	0.600	1.386
15.000	DF226	5.175	PS115	4.900	Circ	0.1mØ	5.246	19.1	0.600	0.502
16.000	RWP227B	5.225	PS115	4.900	Circ	0.1mØ	2.818	8.7	0.600	0.468
15.001	PS115	4.900	S27	4.300	Circ	0.1mØ	6.836	11.4	0.600	0.893
1.006	S27	4.175	S151	4.100	Circ	0.225mØ	16.187	215.8	0.600	1.462
17.000	PS793	5.200	PS792	5.050	Circ	0.1mØ	12.377	82.5	0.600	0.607
18.000	RE221B	5.400	PS792	5.050	Circ	0.1mØ	5.951	17.0	0.600	0.463
17.001	PS792	5.050	PS782	4.900	Circ	0.1mØ	5.344	35.6	0.600	0.796
19.000	RWP220C	5.350	RE220A	5.200	Circ	0.1mØ	1.131	7.5	0.600	0.475
19.001	RE220A	5.200	PS782	4.900	Circ	0.1mØ	9.933	33.1	0.600	0.608
20.000	DF220	5.200	PS782	4.850	Circ	0.15mØ	3.968	11.3	0.600	0.510
21.000	RWP220A	5.350	PS782	4.900	Circ	0.1mØ	1.002	2.2	0.600	0.485
17.002	PS782	4.850	S135	4.650	Circ	0.15mØ	6.824	34.1	0.600	0.950

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)
22.000	DF240	5.225	PS143	5.150	Circ	0.1mØ	3.426	45.7	0.600	0.602
22.001	PS143	5.150	S135	4.700	Circ	0.1mØ	7.839	17.4	0.600	0.835
17.003	S135	4.575	S151	4.100	Circ	0.225mØ	24.995	52.6	0.600	1.074
23.000	RE222A	5.275	PS798	5.150	Circ	0.1mØ	7.005	56.0	0.600	0.467
24.000	RWP223E	5.200	PS798	5.150	Circ	0.1mØ	2.045	40.9	0.600	0.475
23.001	PS798	5.150	PS742	5.000	Circ	0.1mØ	13.948	93.0	0.600	0.545
25.000	ACO222	5.150	PS90	5.100	Circ	0.1mØ	2.012	40.2	0.600	0.603
26.000	RWP222A	5.300	PS90	5.100	Circ	0.1mØ	1.668	8.3	0.600	0.468
25.001	PS90	5.100	PS742	5.000	Circ	0.1mØ	7.921	79.2	0.600	0.675
27.000	RWP223C	5.200	PS742	5.000	Circ	0.1mØ	2.312	11.6	0.600	0.485
23.002	PS742	5.000	S151	4.225	Circ	0.1mØ	6.622	8.5	0.600	0.759
1.007	S151	4.100	S24	4.025	Circ	0.225mØ	15.904	212.1	0.600	1.387
28.000	RE223A	4.900	PS829	4.750	Circ	0.1mØ	14.208	94.7	0.600	0.450
29.000	ACO224B	5.045	PS829	4.750	Circ	0.1mØ	2.760	9.4	0.600	0.450
28.001	PS829	4.750	PS744	4.620	Circ	0.1mØ	12.594	96.9	0.600	0.818
28.002	PS744	4.620	PS745	4.373	Circ	0.1mØ	6.836	27.6	0.600	1.010
30.000	RWP225B	5.000	RE225A	4.950	Circ	0.1mØ	0.584	11.7	0.600	0.450
30.001	RE225A	4.950	PS830	4.850	Circ	0.1mØ	6.047	60.5	0.600	0.494
30.002	PS830	4.850	PS746	4.450	Circ	0.1mØ	11.559	28.9	0.600	0.589
31.000	GY225	4.875	PS746	4.400	Circ	0.15mØ	3.572	7.5	0.600	0.462
30.003	PS746	4.400	PS745	4.322	Circ	0.15mØ	9.975	128.7	0.600	1.024
28.003	PS745	4.322	S24	4.100	Circ	0.15mØ	4.251	19.1	0.600	1.199
1.008	S24	4.025	S25	3.850	Circ	0.225mØ	34.390	196.5	0.600	1.296
32.000	RE202A	4.700	PS666	4.500	Circ	0.1mØ	11.556	57.8	0.600	0.515
32.001	PS666	4.500	PS667	4.300	Circ	0.1mØ	9.879	49.4	0.600	0.779
33.000	RWP202B	4.700	PS667	4.300	Circ	0.1mØ	2.082	5.2	0.600	0.539
32.002	PS667	4.250	S25	3.925	Circ	0.15mØ	4.052	12.5	0.600	0.936
1.009	S25	3.850	S26	3.800	Circ	0.225mØ	9.063	181.3	0.600	1.200
34.000	RWP204C	4.800	RE204A	4.750	Circ	0.1mØ	0.558	11.2	0.600	0.649
34.001	RE204A	4.750	PS649	4.650	Circ	0.1mØ	5.022	50.2	0.600	0.690
35.000	RWP204G	4.800	PS649	4.650	Circ	0.1mØ	5.223	34.8	0.600	0.649
36.000	ACO204	4.970	PS649	4.650	Circ	0.1mØ	1.800	5.6	0.600	0.456
34.002	PS649	4.650	PS147	4.450	Circ	0.1mØ	10.866	54.3	0.600	0.806
37.000	RWP204E	4.800	PS147	4.450	Circ	0.1mØ	1.138	3.3	0.600	0.665
34.003	PS147	4.450	PS652	4.300	Circ	0.1mØ	11.172	74.5	0.600	1.032
38.000	DF204	4.900	PS652	4.375	Circ	0.15mØ	9.078	17.3	0.600	0.500
39.000	RWP203A	4.900	PS652	4.300	Circ	0.1mØ	1.465	2.4	0.600	0.495
34.004	PS652	4.250	S14	4.075	Circ	0.15mØ	9.005	51.5	0.600	1.193
34.005	S14	4.000	S15	3.880	Circ	0.225mØ	26.024	216.9	0.600	1.100
40.000	RWP202D	4.700	PS151	4.500	Circ	0.1mØ	6.253	31.3	0.600	0.525
41.000	DF202	4.600	PS151	4.450	Circ	0.15mØ	4.421	29.5	0.600	0.517
40.001	PS151	4.450	S15	3.955	Circ	0.15mØ	8.417	17.0	0.600	0.836
34.006	S15	3.880	S26	3.800	Circ	0.225mØ	17.075	213.4	0.600	1.053
1.010	S26	3.800	S132	3.723	Circ	0.375mØ	30.822	400.0	0.600	0.971
42.000	RE201A	4.650	PS669	4.500	Circ	0.1mØ	8.034	53.6	0.600	0.545
43.000	ACO201	4.670	PS669	4.500	Circ	0.1mØ	2.516	14.8	0.600	0.452
42.001	PS669	4.500	PS670	4.450	Circ	0.1mØ	2.158	43.2	0.600	0.650
44.000	YG201A	4.600	PS670	4.450	Circ	0.1mØ	0.995	6.6	0.600	0.558
42.002	PS670	4.450	PS157	4.275	Circ	0.1mØ	13.886	79.3	0.600	0.726
45.000	RWP201A	4.700	RE201B	4.650	Circ	0.1mØ	0.527	10.5	0.600	0.606
45.001	RE201B	4.650	PS678	4.500	Circ	0.1mØ	10.856	72.4	0.600	0.688
45.002	PS678	4.500	PS157	4.275	Circ	0.1mØ	10.678	47.5	0.600	0.803
46.000	RWP200D	4.700	PS157	4.275	Circ	0.1mØ	2.453	5.8	0.600	0.535
42.003	PS157	4.275	S132	3.998	Circ	0.1mØ	14.527	52.4	0.600	0.893
47.000	RWP200C	4.900	RE200C	4.800	Circ	0.1mØ	0.736	7.4	0.600	0.475
47.001	RE200C	4.800	PS799	4.725	Circ	0.1mØ	7.440	99.2	0.600	0.573
48.000	ACO200	4.745	PS799	4.725	Circ	0.1mØ	1.423	71.2	0.600	0.450
47.002	PS799	4.725	PS200A	4.700	Circ	0.1mØ	2.448	97.9	0.600	0.500
49.000	RWP200F	4.900	PS200A	4.700	Circ	0.1mØ	4.885	24.4	0.600	0.482
50.000	RWP200A	4.800	PS200A	4.700	Circ	0.1mØ	0.964	9.6	0.600	0.467
47.003	PS200A	4.700	PS153	4.575	Circ	0.1mØ	10.679	85.4	0.600	0.591
51.000	DF200	4.750	PS153	4.525	Circ	0.15mØ	4.055	18.0	0.600	0.500
52.000	RWP200E	4.700	PS153	4.575	Circ	0.1mØ	2.182	17.5	0.600	0.551
47.004	PS153	4.525	S132	3.948	Circ	0.15mØ	6.435	11.2	0.600	0.774
53.000	S131	4.200	S132	3.945	Circ	0.15mØ	6.142	24.1	0.600	0.624
1.011	S132	3.723	S16	3.666	Circ	0.375mØ	22.870	400.0	0.600	1.094
54.000	RWP199A	4.700	PS680	4.525	Circ	0.1mØ	1.640	9.4	0.600	0.825
54.001	PS680	4.525	PS681	4.375	Circ	0.1mØ	12.413	82.8	0.600	0.843

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)
55.000	RWP199C	4.700	PS681	4.375	Circ	0.1mØ	2.830	8.7	0.600	0.675
54.002	PS681	4.375	PS155	4.275	Circ	0.1mØ	12.917	129.2	0.600	0.997
56.000	RE200B	4.650	PS155	4.275	Circ	0.1mØ	12.737	34.0	0.600	0.747
57.000	DF199	4.750	PS155	4.225	Circ	0.15mØ	5.929	11.3	0.600	0.528
58.000	RWP199E	4.700	PS155	4.275	Circ	0.1mØ	4.095	9.6	0.600	0.693
54.003	PS155	4.225	S16	3.891	Circ	0.15mØ	8.320	24.9	0.600	1.195
1.012	S16	3.666	S17	3.631	Circ	0.375mØ	14.062	400.0	0.600	1.297
59.000	DF231	4.900	PS101	4.800	Circ	0.15mØ	4.186	41.9	0.600	0.509
59.001	PS101	4.800	PS98	4.400	Circ	0.15mØ	7.938	19.8	0.600	0.601
60.000	RWP195F	4.700	PS98	4.450	Circ	0.1mØ	6.955	27.8	0.600	0.503
61.000	GY195	4.775	PS98	4.400	Circ	0.15mØ	1.658	4.4	0.600	0.454
59.002	PS98	4.400	PS100	4.325	Circ	0.15mØ	10.031	133.7	0.600	0.851
59.003	PS100	4.325	S136	4.250	Circ	0.15mØ	9.106	121.4	0.600	0.735
59.004	S136	4.250	S102	4.075	Circ	0.15mØ	25.690	146.8	0.600	0.676
62.000	RWP196A	4.800	RE196B	4.650	Circ	0.1mØ	2.488	16.6	0.600	0.457
62.001	RE196B	4.650	PS44	4.400	Circ	0.1mØ	6.156	24.6	0.600	0.640
63.000	DF196	4.500	PS44	4.350	Circ	0.15mØ	6.560	43.7	0.600	0.624
62.002	PS44	4.350	S102	4.075	Circ	0.15mØ	6.929	25.2	0.600	0.861
59.005	S102	4.000	S22	3.825	Circ	0.225mØ	34.577	197.6	0.600	0.923
64.000	RWP197F	4.900	RE197B	4.850	Circ	0.1mØ	3.590	71.8	0.600	0.622
64.001	RE197B	4.850	PS163	4.700	Circ	0.1mØ	12.190	81.3	0.600	0.670
65.000	DF197	4.750	PS163	4.650	Circ	0.15mØ	5.446	54.5	0.600	0.615
64.002	PS163	4.650	PS164	4.550	Circ	0.15mØ	10.527	105.3	0.600	0.737
64.003	PS164	4.550	PS165	4.400	Circ	0.15mØ	12.288	81.9	0.600	0.836
66.000	RWP197B	4.900	PS165	4.450	Circ	0.1mØ	3.962	8.8	0.600	0.485
64.004	PS165	4.400	S22	3.900	Circ	0.15mØ	9.622	19.2	0.600	1.085
67.000	ACO198	5.045	RE198B	5.000	Circ	0.1mØ	2.560	56.9	0.600	0.450
67.001	RE198B	5.000	PS160	4.850	Circ	0.1mØ	9.610	64.1	0.600	0.460
67.002	PS160	4.850	PS161	4.700	Circ	0.1mØ	10.132	67.5	0.600	0.696
67.003	PS161	4.700	PS159	4.600	Circ	0.1mØ	5.039	50.4	0.600	0.897
68.000	RE198A	4.900	PS683	4.800	Circ	0.1mØ	7.653	76.5	0.600	0.614
69.000	RWP198E	5.075	PS683	4.800	Circ	0.1mØ	0.853	3.1	0.600	0.444
68.001	PS683	4.800	PS159	4.600	Circ	0.1mØ	11.424	57.1	0.600	0.657
70.000	DF198	4.775	PS159	4.600	Circ	0.15mØ	5.953	34.0	0.600	0.618
67.004	PS159	4.600	S22	3.900	Circ	0.15mØ	6.599	9.4	0.600	0.933
59.006	S22	3.825	S17	3.770	Circ	0.225mØ	9.663	175.7	0.600	1.443
1.013	S17	3.631	S18	3.611	Circ	0.375mØ	8.045	400.4	0.600	1.421
1.014	S18	3.600	S19	3.550	Circ	0.375mØ	4.200	84.0	0.600	1.025
1.015	S19	3.550	S20	3.500	Circ	0.375mØ	5.147	102.9	0.600	1.075
1.016	S20	3.500	S21	3.000	Circ	0.225mØ	8.706	17.4	0.600	1.250

Outfall Details

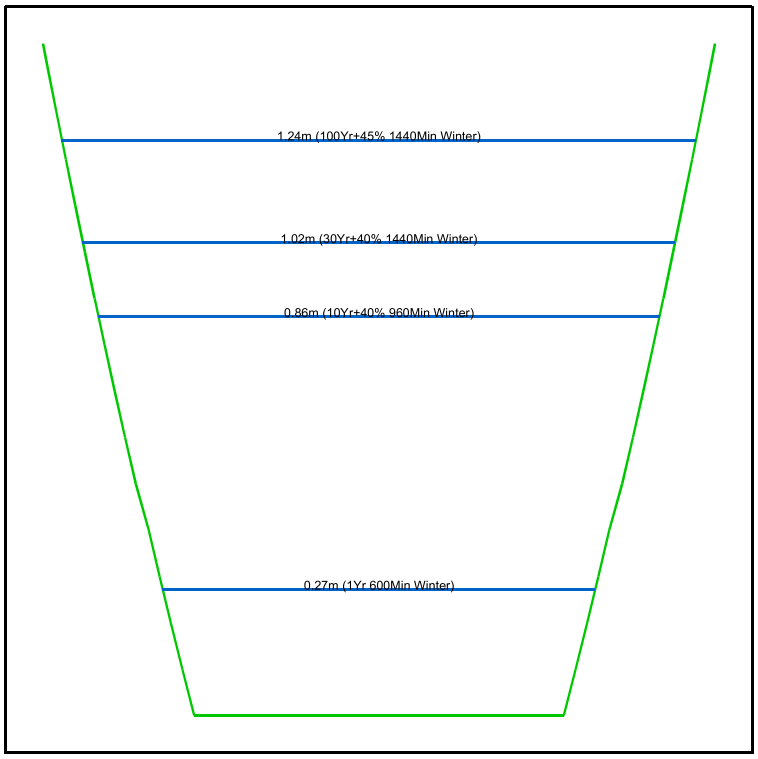
Outfall Manhole S21 : Free Discharge

Flow Control Details

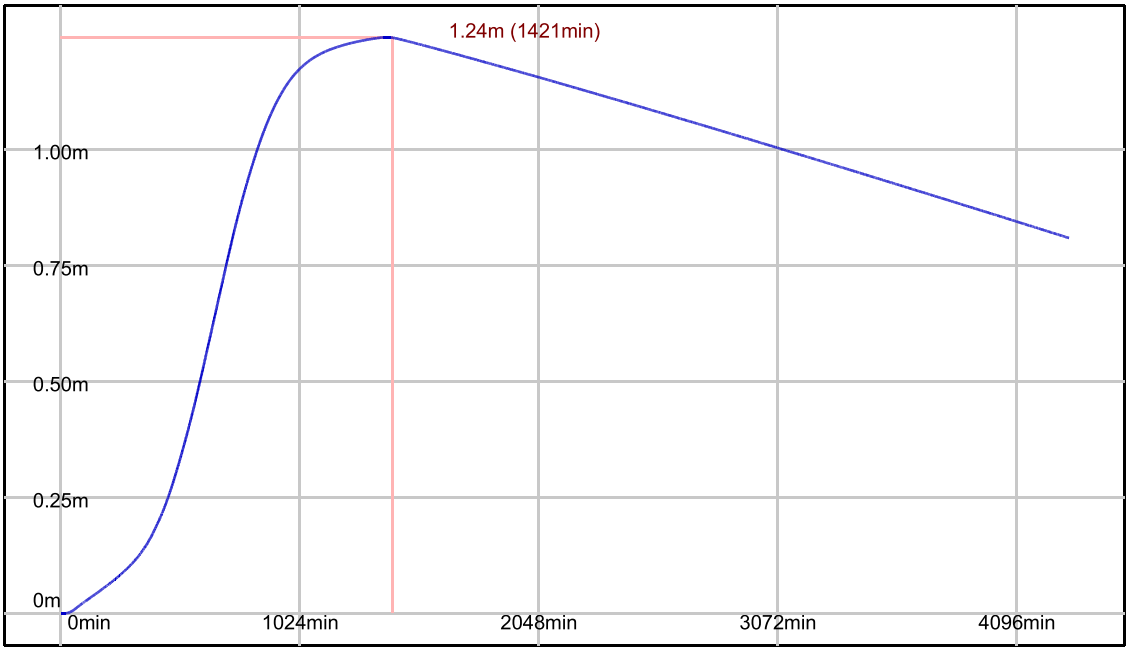
Pond Structure at Manhole S19

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
3.550	1.450	610.509	4.850	0.150	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S19



Pond at S19 (100Yr+45% 1440Min Winter)

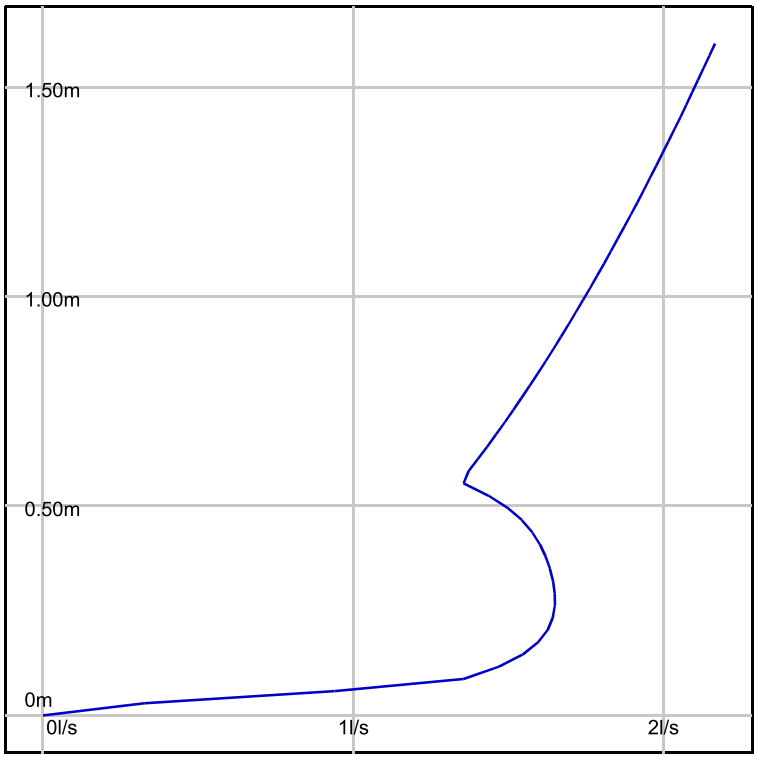


Controls within Manhole S20

Hydro-Brake® Optimum Control at Manhole S20

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-0063-2000-1350-2000	1.350	2.000	0.000	0.274	1.651	0.557	1.344

Hydro-Brake® Optimum Control at S20



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	0.21	30Yr+40% 15Min Summer	112.863	-0.24	0.10
1Yr 15Min Summer	16.942	0.00	0.20	30Yr+40% 15Min Winter	112.863	-0.34	0.19
1Yr 30Min Winter	10.755	0.00	0.20	30Yr+40% 30Min Summer	74.071	0.00	0.83
1Yr 30Min Summer	10.755	0.00	0.22	30Yr+40% 30Min Winter	74.071	-0.08	0.93
1Yr 60Min Winter	6.786	0.00	0.10	30Yr+40% 60Min Summer	46.547	0.00	1.33
1Yr 60Min Summer	6.786	0.00	0.00	30Yr+40% 60Min Winter	46.547	0.00	1.42
1Yr 120Min Summer	5.246	0.00	-0.29	30Yr+40% 120Min Summer	27.731	0.00	1.56
1Yr 120Min Winter	5.246	0.00	-0.30	30Yr+40% 120Min Winter	27.731	0.00	1.68
1Yr 180Min Summer	4.383	0.00	-0.27	30Yr+40% 180Min Summer	20.307	0.00	1.49
1Yr 180Min Winter	4.383	0.00	-0.40	30Yr+40% 180Min Winter	20.307	0.00	1.60
1Yr 240Min Summer	3.631	0.00	-0.27	30Yr+40% 240Min Summer	16.265	0.00	1.17
1Yr 240Min Winter	3.631	0.00	-0.53	30Yr+40% 240Min Winter	16.265	0.00	1.50
1Yr 360Min Summer	2.818	0.00	-0.45	30Yr+40% 360Min Summer	11.803	0.00	0.97
1Yr 360Min Winter	2.818	0.00	-0.66	30Yr+40% 360Min Winter	11.803	0.00	1.22
1Yr 480Min Summer	2.343	0.00	-0.46	30Yr+40% 480Min Summer	9.367	0.00	0.80
1Yr 480Min Winter	2.343	0.00	-0.52	30Yr+40% 480Min Winter	9.367	0.00	0.90
1Yr 600Min Summer	2.004	0.00	-0.45	30Yr+40% 600Min Summer	7.810	0.00	0.52
1Yr 600Min Winter	2.004	0.00	-0.57	30Yr+40% 600Min Winter	7.810	0.00	0.67
1Yr 720Min Winter	1.752	0.00	-0.53	30Yr+40% 720Min Summer	6.721	0.00	0.31
1Yr 720Min Summer	1.752	0.00	-0.41	30Yr+40% 720Min Winter	6.721	0.00	0.42
1Yr 960Min Summer	1.420	0.00	-0.41	30Yr+40% 960Min Summer	5.302	0.00	-0.04
1Yr 960Min Winter	1.420	0.00	-0.60	30Yr+40% 960Min Winter	5.302	0.00	0.03
1Yr 1440Min Summer	1.059	0.00	-0.46	30Yr+40% 1440Min Summer	3.817	0.00	-0.05
1Yr 1440Min Winter	1.059	0.00	-0.49	30Yr+40% 1440Min Winter	3.817	0.00	0.06
10Yr+40% 15Min Summer	87.036	0.00	0.09	100Yr+45% 15Min Summer	146.276	-0.46	0.54
10Yr+40% 15Min Winter	87.036	-0.15	0.07	100Yr+45% 15Min Winter	146.276	-0.58	0.88
10Yr+40% 30Min Summer	56.678	0.00	0.16	100Yr+45% 30Min Summer	96.982	-0.19	1.59
10Yr+40% 30Min Winter	56.678	0.00	0.22	100Yr+45% 30Min Winter	96.982	-0.22	1.70
10Yr+40% 60Min Summer	35.401	0.00	0.59	100Yr+45% 60Min Summer	61.530	0.00	2.17
10Yr+40% 60Min Winter	35.401	0.00	0.69	100Yr+45% 60Min Winter	61.530	0.00	2.29
10Yr+40% 120Min Winter	21.745	0.00	0.96	100Yr+45% 120Min Summer	35.946	0.00	2.39
10Yr+40% 120Min Summer	21.745	0.00	0.88	100Yr+45% 120Min Winter	35.946	0.00	2.51
10Yr+40% 180Min Summer	16.178	0.00	0.85	100Yr+45% 180Min Summer	26.053	0.00	2.19
10Yr+40% 180Min Winter	16.178	0.00	0.89	100Yr+45% 180Min Winter	26.053	0.00	2.45
10Yr+40% 240Min Summer	13.001	0.00	0.62	100Yr+45% 240Min Summer	20.923	0.00	2.13
10Yr+40% 240Min Winter	13.001	0.00	0.77	100Yr+45% 240Min Winter	20.923	0.00	2.36
10Yr+40% 360Min Summer	9.488	0.00	0.26	100Yr+45% 360Min Summer	15.176	0.00	1.92
10Yr+40% 360Min Winter	9.488	0.00	0.52	100Yr+45% 360Min Winter	15.176	0.00	2.07
10Yr+40% 480Min Summer	7.563	0.00	0.08	100Yr+45% 480Min Summer	12.028	0.00	1.69
10Yr+40% 480Min Winter	7.563	0.00	0.27	100Yr+45% 480Min Winter	12.028	0.00	1.79
10Yr+40% 600Min Winter	6.323	0.00	0.03	100Yr+45% 600Min Summer	10.033	0.00	1.45
10Yr+40% 600Min Summer	6.323	0.00	-0.12	100Yr+45% 600Min Winter	10.033	0.00	1.54
10Yr+40% 720Min Summer	5.451	0.00	-0.30	100Yr+45% 720Min Summer	8.641	0.00	1.16
10Yr+40% 720Min Winter	5.451	0.00	-0.15	100Yr+45% 720Min Winter	8.641	0.00	1.25
10Yr+40% 960Min Summer	4.313	0.00	-0.30	100Yr+45% 960Min Summer	6.827	0.00	0.68
10Yr+40% 960Min Winter	4.313	0.00	-0.26	100Yr+45% 960Min Winter	6.827	0.00	0.77
10Yr+40% 1440Min Summer	3.111	0.00	-0.23	100Yr+45% 1440Min Winter	4.922	0.00	0.79
10Yr+40% 1440Min Winter	3.111	0.00	-0.20	100Yr+45% 1440Min Summer	4.922	0.00	0.66

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
RWP228A	-	0	5.150	0.000	0.000		OK
RE228A	-	0	5.100	0.000	0.000		OK
RWP228C	-	0	5.150	0.000	0.000		OK
RE228B	-	0	5.100	0.000	0.000		OK
PS777	-	0	5.015	0.000	0.000		OK
PS834	-	0	5.000	0.000	0.000		OK
DF228	600 min Winter	392	4.979	0.004	0.064		OK
PS111	600 min Winter	392	4.754	0.004	0.064		OK
S28	15 min Winter	8	4.349	0.049	3.919		OK
ACO235	-	0	4.970	0.000	0.000		OK
RWP235C	-	0	5.000	0.000	0.000		OK
RE235A	15 min Winter	8	4.892	0.017	0.428		OK
DF235	600 min Winter	392	4.805	0.005	0.058		OK
RWP235A	-	0	5.000	0.000	0.000		OK
PS107	15 min Winter	9	4.710	0.010	0.411		OK
S54	15 min Winter	10	4.366	0.016	0.373		OK
RWP239B	-	0	5.375	0.000	0.000		OK
RE239B	-	0	5.350	0.000	0.000		OK
RWP238B	-	0	5.375	0.000	0.000		OK
PS253	-	0	5.225	0.000	0.000		OK
RE236B	15 min Winter	8	5.121	0.021	0.859		OK
PS251	15 min Winter	9	4.925	0.025	0.820		OK
RE236A	-	0	5.100	0.000	0.000		OK
DF237	600 min Winter	390	5.104	0.004	0.056		OK
PS109	15 min Winter	9	4.764	0.014	0.834		OK
RWP239A	-	0	5.375	0.000	0.000		OK
RE239A	15 min Winter	8	5.372	0.022	1.011		OK
RWP238A	-	0	5.375	0.000	0.000		OK
PS255	15 min Winter	8	5.014	0.014	0.997		OK
S53	15 min Winter	9	4.295	0.045	3.551		OK
DF226	600 min Winter	391	5.180	0.005	0.062		OK
RWP227B	-	0	5.225	0.000	0.000		OK
PS115	600 min Winter	392	4.904	0.004	0.062		OK
S27	15 min Winter	9	4.247	0.072	8.135		OK
PS793	15 min Winter	8	5.220	0.020	0.583		OK
RE221B	-	0	5.400	0.000	0.000		OK
PS792	15 min Winter	9	5.066	0.016	0.560		OK
RWP220C	-	0	5.350	0.000	0.000		OK
RE220A	15 min Winter	8	5.219	0.019	0.859		OK
DF220	600 min Winter	393	5.204	0.004	0.067		OK
RWP220A	-	0	5.350	0.000	0.000		OK
PS782	15 min Winter	9	4.872	0.022	1.386		OK
DF240	600 min Winter	391	5.231	0.006	0.061		OK
PS143	600 min Winter	392	5.155	0.005	0.061		OK
S135	15 min Winter	8	4.614	0.039	4.840		OK
RE222A	-	0	5.275	0.000	0.000		OK
RWP223E	15 min Winter	8	5.211	0.011	0.235		OK
PS798	15 min Winter	8	5.187	0.037	1.618		OK
ACO222	15 min Winter	8	5.164	0.014	0.400		OK
RWP222A	-	0	5.300	0.000	0.000		OK
PS90	15 min Winter	9	5.116	0.016	0.382		OK
RWP223C	-	0	5.200	0.000	0.000		OK
PS742	15 min Winter	9	5.021	0.021	1.941		OK
S151	15 min Winter	9	4.200	0.100	14.707		OK
RE223A	-	0	4.900	0.000	0.000		OK
ACO224B	-	0	5.045	0.000	0.000		OK
PS829	15 min Winter	8	4.775	0.025	0.808		OK
PS744	15 min Winter	9	4.638	0.018	0.776		OK
RWP225B	-	0	5.000	0.000	0.000		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RE225A	-	0	4.950	0.000	0.000		OK
PS830	-	0	4.850	0.000	0.000		OK
GY225	-	0	4.875	0.000	0.000		OK
PS746	-	0	4.400	0.000	0.000		OK
PS745	15 min Winter	9	4.337	0.014	0.785		OK
S24	15 min Winter	9	4.138	0.113	19.332		OK
RE202A	-	0	4.700	0.000	0.000		OK
PS666	-	0	4.500	0.000	0.000		OK
RWP202B	-	0	4.700	0.000	0.000		OK
PS667	-	0	4.250	0.000	0.000		OK
S25	15 min Winter	10	3.969	0.119	19.570		OK
RWP204C	-	0	4.800	0.000	0.000		OK
RE204A	-	0	4.750	0.000	0.000		OK
RWP204G	-	0	4.800	0.000	0.000		OK
ACO204	-	0	4.970	0.000	0.000		OK
PS649	15 min Winter	8	4.665	0.015	0.416		OK
RWP204E	-	0	4.800	0.000	0.000		OK
PS147	15 min Winter	9	4.466	0.016	0.398		OK
DF204	600 min Winter	388	4.904	0.004	0.048		OK
RWP203A	-	0	4.900	0.000	0.000		OK
PS652	15 min Winter	9	4.263	0.013	0.403		OK
S14	15 min Winter	9	4.043	0.043	2.822		OK
RWP202D	-	0	4.700	0.000	0.000		OK
DF202	600 min Winter	388	4.604	0.004	0.044		OK
PS151	15 min Winter	8	4.467	0.017	1.137		OK
S15	15 min Winter	9	3.939	0.059	5.444		OK
S26	15 min Winter	10	3.935	0.135	28.406		OK
RE201A	-	0	4.650	0.000	0.000		OK
ACO201	-	0	4.670	0.000	0.000		OK
PS669	-	0	4.500	0.000	0.000		OK
YG201A	-	0	4.600	0.000	0.000		OK
PS670	-	0	4.450	0.000	0.000		OK
RWP201A	-	0	4.700	0.000	0.000		OK
RE201B	-	0	4.650	0.000	0.000		OK
PS678	-	0	4.500	0.000	0.000		OK
RWP200D	-	0	4.700	0.000	0.000		OK
PS157	-	0	4.275	0.000	0.000		OK
RWP200C	-	0	4.900	0.000	0.000		OK
RE200C	15 min Winter	8	4.816	0.016	0.331		OK
ACO200	-	0	4.745	0.000	0.000		OK
PS799	15 min Winter	9	4.741	0.016	0.319		OK
RWP200F	-	0	4.900	0.000	0.000		OK
RWP200A	-	0	4.800	0.000	0.000		OK
PS200A	15 min Winter	9	4.715	0.015	0.321		OK
DF200	600 min Winter	391	4.754	0.004	0.058		OK
RWP200E	15 min Winter	8	4.717	0.017	0.877		OK
PS153	15 min Winter	9	4.540	0.015	1.148		OK
S131	600 min Winter	393	4.205	0.005	0.069		OK
S132	15 min Winter	10	3.862	0.139	29.886		OK
RWP199A	-	0	4.700	0.000	0.000		OK
PS680	-	0	4.525	0.000	0.000		OK
RWP199C	-	0	4.700	0.000	0.000		OK
PS681	-	0	4.375	0.000	0.000		OK
RE200B	15 min Winter	8	4.673	0.023	1.208		OK
DF199	600 min Winter	387	4.753	0.003	0.039		OK
RWP199E	-	0	4.700	0.000	0.000		OK
PS155	15 min Winter	8	4.244	0.019	1.194		OK
S16	600 min Winter	534	3.822	0.156	0.948		OK
DF231	600 min Winter	388	4.905	0.005	0.045		OK
PS101	600 min Winter	389	4.804	0.004	0.045		OK
RWP195F	-	0	4.700	0.000	0.000		OK
GY195	15 min Winter	8	4.784	0.009	0.578		OK
PS98	15 min Winter	8	4.431	0.031	1.502		OK
PS100	15 min Winter	8	4.356	0.031	1.480		OK
S136	15 min Winter	9	4.281	0.031	1.461		OK
RWP196A	-	0	4.800	0.000	0.000		OK
RE196B	-	0	4.650	0.000	0.000		OK
DF196	600 min Winter	392	4.505	0.005	0.062		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS44	15 min Winter	8	4.366	0.016	0.877		OK
S102	15 min Winter	9	4.062	0.062	6.279		OK
RWP197F	-	0	4.900	0.000	0.000		OK
RE197B	15 min Winter	9	4.861	0.011	0.172		OK
DF197	600 min Winter	388	4.755	0.005	0.042		OK
PS163	15 min Winter	9	4.661	0.011	0.177		OK
PS164	15 min Winter	8	4.574	0.024	1.034		OK
RWP197B	-	0	4.900	0.000	0.000		OK
PS165	15 min Winter	9	4.416	0.016	1.010		OK
ACO198	-	0	5.045	0.000	0.000		OK
RE198B	-	0	5.000	0.000	0.000		OK
PS160	15 min Winter	8	4.874	0.024	0.929		OK
PS161	15 min Winter	8	4.723	0.023	0.914		OK
RE198A	15 min Winter	8	4.915	0.015	0.331		OK
RWP198E	-	0	5.075	0.000	0.000		OK
PS683	15 min Winter	9	4.814	0.014	0.319		OK
DF198	600 min Winter	394	4.780	0.005	0.071		OK
PS159	15 min Winter	9	4.615	0.015	1.223		OK
S22	15 min Winter	9	3.896	0.071	8.571		OK
S17	600 min Winter	531	3.822	0.191	1.709		OK
S18	600 min Winter	435	3.825	0.225	3.663		OK
S19	600 min Winter	516	3.821	0.271	1.295		OK
S20	600 min Winter	507	3.825	0.325	0.631		Surcharged
S21	240 min Winter	216	3.018	0.018	1.650		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	0	RWP228A	RE228A	0.000	0.000	0.000	0.000	OK
1.001	15 min Winter	0	RE228A	PS777	0.000	0.000	0.000	0.000	OK
2.000	15 min Winter	0	RWP228C	RE228B	0.000	0.000	0.000	0.000	OK
2.001	15 min Winter	0	RE228B	PS777	0.000	0.000	0.000	0.000	OK
1.002	15 min Winter	0	PS777	PS834	0.000	0.000	0.000	0.000	OK
1.003	15 min Winter	0	PS834	PS111	0.000	0.000	0.000	0.000	OK
3.000	600 min Winter	392	DF228	PS111	0.004	0.457	0.064	0.001	OK
1.004	600 min Winter	393	PS111	S28	0.004	0.431	0.064	0.002	OK
1.005	15 min Winter	9	S28	S27	0.060	0.461	3.799	0.105	OK
4.000	15 min Winter	8	ACO235	RE235A	0.008	0.000	0.000	0.000	OK
5.000	15 min Winter	8	RWP235C	RE235A	0.008	0.000	0.000	0.000	OK
4.001	15 min Winter	8	RE235A	PS107	0.017	0.475	0.416	0.062	OK
6.000	15 min Winter	9	DF235	PS107	0.005	0.006	0.001	0.000	OK
7.000	15 min Winter	0	RWP235A	PS107	0.000	0.000	0.000	0.000	OK
4.002	15 min Winter	9	PS107	S54	0.010	0.847	0.415	0.008	OK
4.003	15 min Winter	10	S54	S53	0.030	0.127	0.392	0.010	OK
8.000	15 min Winter	0	RWP239B	RE239B	0.000	0.000	0.000	0.000	OK
8.001	15 min Winter	0	RE239B	PS253	0.000	0.000	0.000	0.000	OK
9.000	15 min Winter	0	RWP238B	PS253	0.000	0.000	0.000	0.000	OK
8.002	15 min Winter	9	PS253	PS251	0.012	0.000	0.000	0.000	OK
10.000	15 min Winter	8	RE236B	PS251	0.023	0.621	0.846	0.099	OK
8.003	15 min Winter	9	PS251	PS109	0.019	0.777	0.833	0.118	OK
11.000	15 min Winter	9	RE236A	PS109	0.007	0.000	0.000	0.000	OK
12.000	15 min Winter	9	DF237	PS109	0.007	0.010	0.001	0.000	OK
8.004	15 min Winter	9	PS109	S53	0.014	1.243	0.839	0.043	OK
13.000	15 min Winter	8	RWP239A	RE239A	0.011	0.000	0.000	0.000	OK
13.001	15 min Winter	8	RE239A	PS255	0.018	1.028	0.997	0.094	OK
14.000	15 min Winter	8	RWP238A	PS255	0.007	0.000	0.000	0.000	OK
13.002	15 min Winter	8	PS255	S53	0.014	1.459	0.988	0.043	OK
4.004	15 min Winter	9	S53	S27	0.059	0.433	3.563	0.089	OK
15.000	600 min Winter	392	DF226	PS115	0.005	0.475	0.062	0.004	OK
16.000	600 min Winter	392	RWP227B	PS115	0.002	0.000	0.000	0.000	OK
15.001	600 min Winter	392	PS115	S27	0.004	0.531	0.062	0.003	OK
1.006	15 min Winter	9	S27	S151	0.086	0.575	8.050	0.229	OK
17.000	15 min Winter	8	PS793	PS792	0.018	0.586	0.570	0.086	OK
18.000	15 min Winter	9	RE221B	PS792	0.008	0.000	0.000	0.000	OK
17.001	15 min Winter	9	PS792	PS782	0.016	0.700	0.567	0.056	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
19.000	15 min Winter	8	RWP220C	RE220A	0.010	0.000	0.000	0.000	OK
19.001	15 min Winter	8	RE220A	PS782	0.019	0.807	0.847	0.080	OK
20.000	15 min Winter	8	DF220	PS782	0.011	0.010	0.002	0.000	OK
21.000	15 min Winter	0	RWP220A	PS782	0.000	0.000	0.000	0.000	OK
17.002	15 min Winter	9	PS782	S135	0.022	0.883	1.397	0.046	OK
22.000	600 min Winter	392	DF240	PS143	0.005	0.370	0.061	0.007	OK
22.001	600 min Winter	392	PS143	S135	0.005	0.454	0.061	0.004	OK
17.003	15 min Winter	9	S135	S151	0.069	0.616	4.748	0.066	OK
23.000	15 min Winter	8	RE222A	PS798	0.018	0.000	0.000	0.000	OK
24.000	15 min Winter	8	RWP223E	PS798	0.024	0.163	0.227	0.024	OK
23.001	15 min Winter	8	PS798	PS742	0.029	0.860	1.594	0.255	OK
25.000	15 min Winter	9	ACO222	PS90	0.015	0.537	0.390	0.041	OK
26.000	15 min Winter	9	RWP222A	PS90	0.008	0.000	0.000	0.000	OK
25.001	15 min Winter	9	PS90	PS742	0.018	0.389	0.387	0.057	OK
27.000	15 min Winter	9	RWP223C	PS742	0.010	0.000	0.000	0.000	OK
23.002	15 min Winter	9	PS742	S151	0.021	1.668	1.956	0.094	OK
1.007	15 min Winter	9	S151	S24	0.107	0.781	14.490	0.408	OK
28.000	15 min Winter	8	RE223A	PS829	0.013	0.000	0.000	0.000	OK
29.000	15 min Winter	8	ACO224B	PS829	0.013	0.000	0.000	0.000	OK
28.001	15 min Winter	8	PS829	PS744	0.021	0.641	0.789	0.129	OK
28.002	15 min Winter	9	PS744	PS745	0.018	0.842	0.785	0.068	OK
30.000	15 min Winter	0	RWP225B	RE225A	0.000	0.000	0.000	0.000	OK
30.001	15 min Winter	0	RE225A	PS830	0.000	0.000	0.000	0.000	OK
30.002	15 min Winter	0	PS830	PS746	0.000	0.000	0.000	0.000	OK
31.000	15 min Winter	0	GY225	PS746	0.000	0.000	0.000	0.000	OK
30.003	15 min Winter	9	PS746	PS745	0.007	0.000	0.000	0.000	OK
28.003	15 min Winter	9	PS745	S24	0.026	0.783	0.790	0.019	OK
1.008	15 min Winter	10	S24	S25	0.116	0.925	18.972	0.514	OK
32.000	15 min Winter	0	RE202A	PS666	0.000	0.000	0.000	0.000	OK
32.001	15 min Winter	0	PS666	PS667	0.000	0.000	0.000	0.000	OK
33.000	15 min Winter	0	RWP202B	PS667	0.000	0.000	0.000	0.000	OK
32.002	15 min Winter	10	PS667	S25	0.022	0.000	0.000	0.000	OK
1.009	15 min Winter	10	S25	S26	0.127	0.859	19.898	0.518	OK
34.000	15 min Winter	0	RWP204C	RE204A	0.000	0.000	0.000	0.000	OK
34.001	15 min Winter	8	RE204A	PS649	0.008	0.000	0.000	0.000	OK
35.000	15 min Winter	8	RWP204G	PS649	0.008	0.000	0.000	0.000	OK
36.000	15 min Winter	8	ACO204	PS649	0.008	0.000	0.000	0.000	OK
34.002	15 min Winter	9	PS649	PS147	0.016	0.523	0.405	0.049	OK
37.000	15 min Winter	9	RWP204E	PS147	0.008	0.000	0.000	0.000	OK
34.003	15 min Winter	9	PS147	PS652	0.016	0.488	0.403	0.058	OK
38.000	600 min Winter	388	DF204	PS652	0.004	0.402	0.048	0.001	OK
39.000	15 min Winter	0	RWP203A	PS652	0.000	0.000	0.000	0.000	OK
34.004	15 min Winter	9	PS652	S14	0.013	0.525	0.402	0.016	OK
34.005	15 min Winter	9	S14	S15	0.051	0.427	2.865	0.082	OK
40.000	15 min Winter	0	RWP202D	PS151	0.000	0.000	0.000	0.000	OK
41.000	15 min Winter	8	DF202	PS151	0.008	0.005	0.001	0.000	OK
40.001	15 min Winter	8	PS151	S15	0.017	1.052	1.127	0.026	OK
34.006	15 min Winter	9	S15	S26	0.097	0.347	5.470	0.155	OK
1.010	15 min Winter	10	S26	S132	0.137	0.787	28.845	0.291	OK
42.000	15 min Winter	0	RE201A	PS669	0.000	0.000	0.000	0.000	OK
43.000	15 min Winter	0	ACO201	PS669	0.000	0.000	0.000	0.000	OK
42.001	15 min Winter	0	PS669	PS670	0.000	0.000	0.000	0.000	OK
44.000	15 min Winter	0	YG201A	PS670	0.000	0.000	0.000	0.000	OK
42.002	15 min Winter	0	PS670	PS157	0.000	0.000	0.000	0.000	OK
45.000	15 min Winter	0	RWP201A	RE201B	0.000	0.000	0.000	0.000	OK
45.001	15 min Winter	0	RE201B	PS678	0.000	0.000	0.000	0.000	OK
45.002	15 min Winter	0	PS678	PS157	0.000	0.000	0.000	0.000	OK
46.000	15 min Winter	0	RWP200D	PS157	0.000	0.000	0.000	0.000	OK
42.003	15 min Winter	0	PS157	S132	0.000	0.000	0.000	0.000	OK
47.000	15 min Winter	8	RWP200C	RE200C	0.008	0.000	0.000	0.000	OK
47.001	15 min Winter	9	RE200C	PS799	0.016	0.416	0.320	0.053	OK
48.000	15 min Winter	9	ACO200	PS799	0.008	0.000	0.000	0.000	OK
47.002	15 min Winter	9	PS799	PS200A	0.015	0.454	0.321	0.053	OK
49.000	15 min Winter	9	RWP200F	PS200A	0.007	0.000	0.000	0.000	OK
50.000	15 min Winter	9	RWP200A	PS200A	0.007	0.000	0.000	0.000	OK
47.003	15 min Winter	9	PS200A	PS153	0.015	0.431	0.315	0.048	OK
51.000	15 min Winter	9	DF200	PS153	0.008	0.010	0.001	0.000	OK
52.000	15 min Winter	8	RWP200E	PS153	0.017	1.019	0.867	0.059	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
47.004	15 min Winter	9	PS153	S132	0.015	1.236	1.152	0.022	OK
53.000	600 min Winter	393	S131	S132	0.005	0.399	0.069	0.002	OK
1.011	15 min Winter	10	S132	S16	0.143	0.771	29.723	0.300	OK
54.000	15 min Winter	0	RWP199A	PS680	0.000	0.000	0.000	0.000	OK
54.001	15 min Winter	0	PS680	PS681	0.000	0.000	0.000	0.000	OK
55.000	15 min Winter	0	RWP199C	PS681	0.000	0.000	0.000	0.000	OK
54.002	15 min Winter	0	PS681	PS155	0.000	0.000	0.000	0.000	OK
56.000	15 min Winter	8	RE200B	PS155	0.023	0.884	1.193	0.115	OK
57.000	15 min Winter	8	DF199	PS155	0.009	0.004	0.001	0.000	OK
58.000	15 min Winter	0	RWP199E	PS155	0.000	0.000	0.000	0.000	OK
54.003	15 min Winter	8	PS155	S16	0.019	0.937	1.182	0.033	OK
1.012	600 min Winter	516	S16	S17	0.173	0.454	5.799	0.058	OK
59.000	600 min Winter	388	DF231	PS101	0.004	0.319	0.045	0.002	OK
59.001	15 min Winter	8	PS101	PS98	0.016	0.000	0.000	0.000	OK
60.000	15 min Winter	0	RWP195F	PS98	0.000	0.000	0.000	0.000	OK
61.000	15 min Winter	8	GY195	PS98	0.020	0.407	0.573	0.007	OK
59.002	15 min Winter	8	PS98	PS100	0.031	0.562	1.480	0.097	OK
59.003	15 min Winter	9	PS100	S136	0.031	0.584	1.462	0.091	OK
59.004	15 min Winter	9	S136	S102	0.031	0.528	1.400	0.096	OK
62.000	15 min Winter	0	RWP196A	RE196B	0.000	0.000	0.000	0.000	OK
62.001	15 min Winter	0	RE196B	PS44	0.000	0.000	0.000	0.000	OK
63.000	15 min Winter	8	DF196	PS44	0.008	0.008	0.001	0.000	OK
62.002	15 min Winter	8	PS44	S102	0.016	0.849	0.868	0.024	OK
59.005	15 min Winter	9	S102	S22	0.066	0.652	6.324	0.172	OK
64.000	15 min Winter	9	RWP197F	RE197B	0.006	0.000	0.000	0.000	OK
64.001	15 min Winter	9	RE197B	PS163	0.011	0.369	0.176	0.026	OK
65.000	600 min Winter	388	DF197	PS163	0.006	0.203	0.042	0.002	OK
64.002	15 min Winter	9	PS163	PS164	0.017	0.158	0.174	0.010	OK
64.003	15 min Winter	9	PS164	PS165	0.020	0.711	1.011	0.052	OK
66.000	15 min Winter	0	RWP197B	PS165	0.000	0.000	0.000	0.000	OK
64.004	15 min Winter	9	PS165	S22	0.016	0.978	1.017	0.025	OK
67.000	15 min Winter	0	ACO198	RE198B	0.000	0.000	0.000	0.000	OK
67.001	15 min Winter	8	RE198B	PS160	0.012	0.000	0.000	0.000	OK
67.002	15 min Winter	8	PS160	PS161	0.023	0.652	0.914	0.124	OK
67.003	15 min Winter	9	PS161	PS159	0.019	0.870	0.901	0.106	OK
68.000	15 min Winter	9	RE198A	PS683	0.014	0.476	0.321	0.046	OK
69.000	15 min Winter	9	RWP198E	PS683	0.007	0.000	0.000	0.000	OK
68.001	15 min Winter	9	PS683	PS159	0.014	0.464	0.321	0.040	OK
70.000	15 min Winter	9	DF198	PS159	0.008	0.010	0.001	0.000	OK
67.004	15 min Winter	9	PS159	S22	0.015	1.338	1.230	0.021	OK
59.006	15 min Winter	9	S22	S17	0.070	0.797	8.490	0.217	OK
1.013	600 min Winter	523	S17	S18	0.203	0.585	14.774	0.149	OK
1.014	600 min Winter	523	S18	S19	0.248	0.883	30.013	0.137	OK
1.015	600 min Winter	507	S19	S20	0.298	0.435	12.930	0.066	OK
1.016	960 min Winter	602	S20	S21	0.018	1.111	1.650	0.013	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
RWP228A	-	0	5.150	0.000	0.000		OK
RE228A	-	0	5.100	0.000	0.000		OK
RWP228C	-	0	5.150	0.000	0.000		OK
RE228B	-	0	5.100	0.000	0.000		OK
PS777	-	0	5.015	0.000	0.000		OK
PS834	-	0	5.000	0.000	0.000		OK
DF228	120 min Summer	79	4.986	0.011	0.502		OK
PS111	15 min Winter	11	4.839	0.089	0.023		OK
S28	15 min Winter	11	4.838	0.538	12.015		Surcharged
ACO235	-	0	4.970	0.000	0.000		OK
RWP235C	-	0	5.000	0.000	0.000		OK
RE235A	15 min Winter	8	4.914	0.039	2.196		OK
DF235	15 min Winter	12	4.837	0.037	0.001		OK
RWP235A	-	0	5.000	0.000	0.000		OK
PS107	15 min Winter	12	4.838	0.138	1.672		OK
S54	15 min Winter	12	4.836	0.486	1.463		Surcharged
RWP239B	-	0	5.375	0.000	0.000		OK
RE239B	-	0	5.350	0.000	0.000		OK
RWP238B	-	0	5.375	0.000	0.000		OK
PS253	-	0	5.225	0.000	0.000		OK
RE236B	15 min Winter	8	5.151	0.051	4.416		OK
PS251	15 min Winter	8	4.959	0.059	4.379		OK
RE236A	-	0	5.100	0.000	0.000		OK
DF237	120 min Summer	78	5.112	0.012	0.488		OK
PS109	15 min Winter	12	4.839	0.089	2.116		OK
RWP239A	15 min Winter	8	5.402	0.027	0.038		OK
RE239A	15 min Winter	8	5.402	0.052	5.194		OK
RWP238A	-	0	5.375	0.000	0.000		OK
PS255	15 min Winter	8	5.032	0.032	5.116		OK
S53	15 min Winter	12	4.835	0.585	10.788		Surcharged
DF226	120 min Summer	79	5.188	0.013	0.499		OK
RWP227B	-	0	5.225	0.000	0.000		OK
PS115	120 min Summer	79	4.911	0.011	0.499		OK
S27	15 min Winter	12	4.827	0.652	22.897		Surcharged
PS793	15 min Winter	8	5.248	0.048	2.998		OK
RE221B	-	0	5.400	0.000	0.000		OK
PS792	15 min Winter	8	5.087	0.037	2.964		OK
RWP220C	-	0	5.350	0.000	0.000		OK
RE220A	15 min Winter	8	5.245	0.045	4.416		OK
DF220	120 min Winter	86	5.210	0.010	0.510		OK
RWP220A	-	0	5.350	0.000	0.000		OK
PS782	15 min Winter	8	4.900	0.050	7.317		OK
DF240	120 min Summer	79	5.241	0.016	0.497		OK
PS143	120 min Summer	79	5.163	0.013	0.497		OK
S135	15 min Winter	11	4.819	0.244	15.424		Surcharged
RE222A	15 min Winter	9	5.297	0.022	0.213		OK
RWP223E	15 min Winter	9	5.296	0.096	1.132		OK
PS798	15 min Winter	9	5.296	0.146	7.062		Surcharged
ACO222	15 min Winter	8	5.181	0.031	2.051		OK
RWP222A	-	0	5.300	0.000	0.000		OK
PS90	15 min Winter	8	5.137	0.037	2.030		OK
RWP223C	-	0	5.200	0.000	0.000		OK
PS742	15 min Winter	10	5.054	0.054	8.974		OK
S151	15 min Winter	11	4.799	0.699	44.751		Surcharged
RE223A	-	0	4.900	0.000	0.000		OK
ACO224B	-	0	5.045	0.000	0.000		OK
PS829	15 min Winter	8	4.811	0.061	4.155		OK
PS744	15 min Winter	11	4.698	0.078	2.667		OK
RWP225B	-	0	5.000	0.000	0.000		OK
RE225A	-	0	4.950	0.000	0.000		OK
PS830	-	0	4.850	0.000	0.000		OK
GY225	-	0	4.875	0.000	0.000		OK
PS746	15 min Winter	11	4.689	0.289	0.273		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS745	15 min Winter	11	4.689	0.367	2.516		Surcharged
S24	15 min Winter	11	4.687	0.662	59.460		Surcharged
RE202A	-	0	4.700	0.000	0.000		OK
PS666	-	0	4.500	0.000	0.000		OK
RWP202B	-	0	4.700	0.000	0.000		OK
PS667	960 min Winter	936	4.411	0.161	0.020		Surcharged
S25	960 min Winter	947	4.411	0.561	0.531		Surcharged
RWP204C	-	0	4.800	0.000	0.000		OK
RE204A	-	0	4.750	0.000	0.000		OK
RWP204G	-	0	4.800	0.000	0.000		OK
ACO204	-	0	4.970	0.000	0.000		OK
PS649	15 min Winter	8	4.685	0.035	2.138		OK
RWP204E	-	0	4.800	0.000	0.000		OK
PS147	15 min Winter	8	4.487	0.037	2.115		OK
DF204	120 min Summer	77	4.911	0.011	0.469		OK
RWP203A	-	0	4.900	0.000	0.000		OK
PS652	960 min Winter	946	4.411	0.161	0.029		Surcharged
S14	960 min Winter	946	4.411	0.411	0.055		Surcharged
RWP202D	-	0	4.700	0.000	0.000		OK
DF202	60 min Winter	50	4.612	0.012	0.458		OK
PS151	15 min Winter	8	4.487	0.037	5.843		OK
S15	960 min Winter	936	4.411	0.531	0.084		Surcharged
S26	960 min Winter	947	4.411	0.611	0.766		Surcharged
RE201A	-	0	4.650	0.000	0.000		OK
ACO201	-	0	4.670	0.000	0.000		OK
PS669	-	0	4.500	0.000	0.000		OK
YG201A	-	0	4.600	0.000	0.000		OK
PS670	-	0	4.450	0.000	0.000		OK
RWP201A	-	0	4.700	0.000	0.000		OK
RE201B	-	0	4.650	0.000	0.000		OK
PS678	-	0	4.500	0.000	0.000		OK
RWP200D	-	0	4.700	0.000	0.000		OK
PS157	960 min Winter	943	4.411	0.136	0.059		Surcharged
RWP200C	-	0	4.900	0.000	0.000		OK
RE200C	15 min Winter	8	4.836	0.036	1.697		OK
ACO200	15 min Winter	9	4.760	0.015	0.000		OK
PS799	15 min Winter	9	4.760	0.035	1.632		OK
RWP200F	-	0	4.900	0.000	0.000		OK
RWP200A	-	0	4.800	0.000	0.000		OK
PS200A	15 min Winter	9	4.734	0.034	1.645		OK
DF200	120 min Summer	78	4.761	0.011	0.491		OK
RWP200E	15 min Winter	8	4.738	0.038	4.507		OK
PS153	15 min Winter	8	4.559	0.034	6.006		OK
S131	960 min Winter	941	4.413	0.213	0.192		Surcharged
S132	960 min Winter	942	4.411	0.688	0.469		Surcharged
RWP199A	-	0	4.700	0.000	0.000		OK
PS680	-	0	4.525	0.000	0.000		OK
RWP199C	-	0	4.700	0.000	0.000		OK
PS681	960 min Winter	942	4.412	0.037	0.019		OK
RE200B	15 min Winter	8	4.705	0.055	6.206		OK
DF199	60 min Winter	49	4.760	0.010	0.443		OK
RWP199E	-	0	4.700	0.000	0.000		OK
PS155	960 min Winter	939	4.412	0.187	0.040		Surcharged
S16	960 min Winter	933	4.411	0.745	0.687		Surcharged
DF231	60 min Winter	50	4.914	0.014	0.461		OK
PS101	60 min Winter	50	4.811	0.011	0.461		OK
RWP195F	-	0	4.700	0.000	0.000		OK
GY195	15 min Winter	8	4.794	0.019	2.972		OK
PS98	15 min Winter	8	4.474	0.074	7.737		OK
PS100	960 min Winter	948	4.411	0.086	0.070		OK
S136	960 min Winter	944	4.411	0.161	0.104		Surcharged
RWP196A	-	0	4.800	0.000	0.000		OK
RE196B	-	0	4.650	0.000	0.000		OK
DF196	120 min Summer	79	4.514	0.014	0.500		OK
PS44	960 min Winter	939	4.412	0.062	0.125		OK
S102	960 min Winter	944	4.411	0.411	0.094		Surcharged
RWP197F	-	0	4.900	0.000	0.000		OK
RE197B	15 min Winter	8	4.875	0.025	0.945		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
DF197	60 min Winter	50	4.764	0.014	0.452		OK
PS163	15 min Winter	9	4.673	0.023	0.903		OK
PS164	15 min Winter	8	4.605	0.055	5.420		OK
RWP197B	-	0	4.900	0.000	0.000		OK
PS165	15 min Winter	8	4.437	0.037	5.364		OK
ACO198	-	0	5.045	0.000	0.000		OK
RE198B	-	0	5.000	0.000	0.000		OK
PS160	15 min Winter	8	4.908	0.058	4.775		OK
PS161	15 min Winter	8	4.754	0.054	4.728		OK
RE198A	15 min Winter	8	4.934	0.034	1.697		OK
RWP198E	-	0	5.075	0.000	0.000		OK
PS683	15 min Winter	8	4.831	0.031	1.675		OK
DF198	60 min Winter	63	4.789	0.014	0.480		OK
PS159	15 min Winter	8	4.633	0.033	6.344		OK
S22	960 min Winter	937	4.412	0.587	0.296		Surcharged
S17	960 min Winter	936	4.412	0.782	1.307		Surcharged
S18	960 min Winter	978	4.412	0.812	0.242		Surcharged
S19	960 min Winter	931	4.410	0.860	1.693		Surcharged
S20	960 min Winter	921	4.413	0.913	1.456		Surcharged
S21	960 min Winter	924	3.018	0.018	1.661		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 Summer	0	RWP228A	RE228A	0.000	0.000	0.000	0.000	OK
1.001	15 min Summer	0	RE228A	PS777	0.000	0.000	0.000	0.000	OK
2.000	15 min Summer	0	RWP228C	RE228B	0.000	0.000	0.000	0.000	OK
2.001	15 min Summer	0	RE228B	PS777	0.000	0.000	0.000	0.000	OK
1.002	15 min Summer	0	PS777	PS834	0.000	0.000	0.000	0.000	OK
1.003	15 min Winter	11	PS834	PS111	0.020	0.000	0.000	0.000	OK
3.000	15 min Winter	27	DF228	PS111	0.045	0.730	0.295	0.006	OK
1.004	15 min Winter	13	PS111	S28	0.120	0.690	1.152	0.027	OK
1.005	15 min Winter	8	S28	S27	0.225	0.628	14.477	0.401	OK
4.000	15 min Winter	8	ACO235	RE235A	0.020	0.000	0.000	0.000	OK
5.000	15 min Winter	8	RWP235C	RE235A	0.020	0.000	0.000	0.000	OK
4.001	15 min Winter	11	RE235A	PS107	0.057	0.762	2.168	0.325	OK
6.000	15 min Winter	12	DF235	PS107	0.088	0.610	0.673	0.023	OK
7.000	15 min Winter	12	RWP235A	PS107	0.044	0.000	0.000	0.000	OK
4.002	15 min Winter	14	PS107	S54	0.144	1.267	2.249	0.046	OK
4.003	15 min Winter	14	S54	S53	0.225	0.227	5.947	0.159	OK
8.000	15 min Summer	0	RWP239B	RE239B	0.000	0.000	0.000	0.000	OK
8.001	15 min Summer	0	RE239B	PS253	0.000	0.000	0.000	0.000	OK
9.000	15 min Summer	0	RWP238B	PS253	0.000	0.000	0.000	0.000	OK
8.002	15 min Winter	8	PS253	PS251	0.030	0.000	0.000	0.000	OK
10.000	15 min Winter	8	RE236B	PS251	0.055	0.989	4.379	0.514	OK
8.003	15 min Winter	11	PS251	PS109	0.064	1.240	4.323	0.612	OK
11.000	15 min Winter	12	RE236A	PS109	0.045	0.000	0.000	0.000	OK
12.000	15 min Winter	27	DF237	PS109	0.045	0.840	0.289	0.017	OK
8.004	15 min Winter	12	PS109	S53	0.095	1.806	4.297	0.219	OK
13.000	15 min Winter	11	RWP239A	RE239A	0.040	0.088	0.126	0.016	OK
13.001	15 min Winter	8	RE239A	PS255	0.042	1.630	5.116	0.481	OK
14.000	15 min Winter	8	RWP238A	PS255	0.016	0.000	0.000	0.000	OK
13.002	15 min Winter	8	PS255	S53	0.066	2.134	5.095	0.222	OK
4.004	15 min Winter	17	S53	S27	0.225	0.564	13.519	0.338	OK
15.000	120 min Summer	79	DF226	PS115	0.012	0.897	0.499	0.036	OK
16.000	120 min Summer	79	RWP227B	PS115	0.006	0.000	0.000	0.000	OK
15.001	60 min Winter	51	PS115	S27	0.055	1.001	0.495	0.027	OK
1.006	15 min Winter	17	S27	S151	0.225	0.829	28.554	0.812	OK
17.000	15 min Winter	8	PS793	PS792	0.042	0.938	2.964	0.446	OK
18.000	15 min Winter	8	RE221B	PS792	0.018	0.000	0.000	0.000	OK
17.001	15 min Winter	8	PS792	PS782	0.037	1.121	2.932	0.288	OK
19.000	15 min Winter	8	RWP220C	RE220A	0.022	0.000	0.000	0.000	OK
19.001	15 min Winter	8	RE220A	PS782	0.045	1.283	4.385	0.415	OK
20.000	15 min Winter	27	DF220	PS782	0.025	0.661	0.298	0.006	OK
21.000	15 min Summer	0	RWP220A	PS782	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
17.002	15 min Winter	11	PS782	S135	0.095	1.423	7.278	0.238	OK
22.000	120 min Summer	79	DF240	PS143	0.015	0.703	0.497	0.055	OK
22.001	15 min Winter	27	PS143	S135	0.050	0.740	0.293	0.020	OK
17.003	15 min Winter	11	S135	S151	0.225	0.833	24.798	0.345	OK
23.000	15 min Winter	10	RE222A	PS798	0.061	0.058	0.288	0.036	OK
24.000	15 min Winter	9	RWP223E	PS798	0.098	0.297	2.173	0.229	OK
23.001	15 min Winter	10	PS798	PS742	0.077	1.182	7.271	1.163	OK
25.000	15 min Winter	8	ACO222	PS90	0.034	0.856	2.030	0.212	OK
26.000	15 min Winter	8	RWP222A	PS90	0.019	0.000	0.000	0.000	OK
25.001	15 min Winter	10	PS90	PS742	0.044	0.655	2.004	0.295	OK
27.000	15 min Winter	10	RWP223C	PS742	0.027	0.000	0.000	0.000	OK
23.002	15 min Winter	10	PS742	S151	0.077	1.976	9.063	0.434	OK
1.007	15 min Winter	14	S151	S24	0.225	1.156	45.957	1.295	OK
28.000	15 min Winter	8	RE223A	PS829	0.031	0.000	0.000	0.000	OK
29.000	15 min Winter	8	ACO224B	PS829	0.031	0.000	0.000	0.000	OK
28.001	15 min Winter	11	PS829	PS744	0.062	1.016	4.089	0.668	OK
28.002	15 min Winter	11	PS744	PS745	0.089	1.301	4.061	0.351	OK
30.000	15 min Summer	0	RWP225B	RE225A	0.000	0.000	0.000	0.000	OK
30.001	15 min Summer	0	RE225A	PS830	0.000	0.000	0.000	0.000	OK
30.002	15 min Summer	10	PS830	PS746	0.050	0.000	0.000	0.000	OK
31.000	15 min Summer	10	GY225	PS746	0.075	0.000	0.000	0.000	OK
30.003	15 min Winter	15	PS746	PS745	0.150	0.175	2.153	0.138	Surcharged
28.003	15 min Winter	15	PS745	S24	0.150	0.777	4.382	0.107	Surcharged
1.008	15 min Winter	12	S24	S25	0.225	1.516	60.297	1.635	OK
32.000	15 min Summer	0	RE202A	PS666	0.000	0.000	0.000	0.000	OK
32.001	720 min Winter	677	PS666	PS667	0.050	0.000	0.000	0.000	OK
33.000	720 min Winter	677	RWP202B	PS667	0.050	0.000	0.000	0.000	OK
32.002	1440 min Winter	1393	PS667	S25	0.150	0.007	0.131	0.003	Surcharged
1.009	15 min Winter	12	S25	S26	0.225	1.610	64.004	1.666	OK
34.000	15 min Summer	0	RWP204C	RE204A	0.000	0.000	0.000	0.000	OK
34.001	15 min Winter	8	RE204A	PS649	0.017	0.000	0.000	0.000	OK
35.000	15 min Winter	8	RWP204G	PS649	0.017	0.000	0.000	0.000	OK
36.000	15 min Winter	8	ACO204	PS649	0.017	0.000	0.000	0.000	OK
34.002	15 min Winter	8	PS649	PS147	0.036	0.835	2.115	0.257	OK
37.000	15 min Winter	8	RWP204E	PS147	0.019	0.000	0.000	0.000	OK
34.003	720 min Winter	677	PS147	PS652	0.052	0.379	0.175	0.025	OK
38.000	960 min Winter	946	DF204	PS652	0.019	0.586	0.169	0.004	OK
39.000	720 min Winter	677	RWP203A	PS652	0.050	0.000	0.000	0.000	OK
34.004	960 min Winter	831	PS652	S14	0.150	0.483	0.307	0.012	Surcharged
34.005	180 min Summer	151	S14	S15	0.225	0.435	5.793	0.165	OK
40.000	15 min Summer	0	RWP202D	PS151	0.000	0.000	0.000	0.000	OK
41.000	15 min Winter	26	DF202	PS151	0.019	0.615	0.278	0.008	OK
40.001	15 min Winter	8	PS151	S15	0.094	1.297	5.820	0.134	OK
34.006	15 min Winter	9	S15	S26	0.225	0.632	25.127	0.710	OK
1.010	120 min Summer	104	S26	S132	0.375	0.948	67.751	0.683	Surcharged
42.000	15 min Summer	0	RE201A	PS669	0.000	0.000	0.000	0.000	OK
43.000	15 min Summer	0	ACO201	PS669	0.000	0.000	0.000	0.000	OK
42.001	15 min Summer	0	PS669	PS670	0.000	0.000	0.000	0.000	OK
44.000	15 min Summer	0	YG201A	PS670	0.000	0.000	0.000	0.000	OK
42.002	480 min Winter	443	PS670	PS157	0.050	0.000	0.000	0.000	OK
45.000	15 min Summer	0	RWP201A	RE201B	0.000	0.000	0.000	0.000	OK
45.001	15 min Summer	0	RE201B	PS678	0.000	0.000	0.000	0.000	OK
45.002	480 min Winter	443	PS678	PS157	0.050	0.000	0.000	0.000	OK
46.000	480 min Winter	443	RWP200D	PS157	0.050	0.000	0.000	0.000	OK
42.003	600 min Winter	1011	PS157	S132	0.100	0.036	0.238	0.029	Surcharged
47.000	15 min Winter	8	RWP200C	RE200C	0.018	0.000	0.000	0.000	OK
47.001	15 min Winter	8	RE200C	PS799	0.035	0.676	1.674	0.277	OK
48.000	15 min Winter	11	ACO200	PS799	0.025	0.069	0.070	0.010	OK
47.002	15 min Winter	9	PS799	PS200A	0.035	0.680	1.645	0.270	OK
49.000	15 min Winter	9	RWP200F	PS200A	0.017	0.000	0.000	0.000	OK
50.000	15 min Winter	9	RWP200A	PS200A	0.017	0.000	0.000	0.000	OK
47.003	15 min Winter	9	PS200A	PS153	0.034	0.697	1.645	0.252	OK
51.000	15 min Winter	27	DF200	PS153	0.017	0.724	0.291	0.007	OK
52.000	15 min Winter	8	RWP200E	PS153	0.038	1.632	4.482	0.307	OK
47.004	120 min Winter	77	PS153	S132	0.084	1.517	2.300	0.043	OK
53.000	480 min Summer	453	S131	S132	0.150	0.620	0.430	0.012	Surcharged
1.011	60 min Winter	54	S132	S16	0.375	0.966	76.566	0.772	Surcharged
54.000	15 min Summer	0	RWP199A	PS680	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
54.001	960 min Winter	942	PS680	PS681	0.018	0.000	0.000	0.000	OK
55.000	960 min Winter	942	RWP199C	PS681	0.018	0.000	0.000	0.000	OK
54.002	960 min Winter	962	PS681	PS155	0.068	0.020	0.113	0.021	OK
56.000	15 min Winter	8	RE200B	PS155	0.055	1.383	6.159	0.591	OK
57.000	720 min Winter	573	DF199	PS155	0.077	0.331	0.171	0.003	OK
58.000	480 min Winter	444	RWP199E	PS155	0.050	0.000	0.000	0.000	OK
54.003	720 min Summer	708	PS155	S16	0.150	0.810	1.005	0.028	Surcharged
1.012	60 min Winter	42	S16	S17	0.375	1.033	83.826	0.845	Surcharged
59.000	60 min Winter	50	DF231	PS101	0.013	0.651	0.461	0.017	OK
59.001	15 min Winter	26	PS101	PS98	0.037	0.452	0.279	0.007	OK
60.000	15 min Winter	8	RWP195F	PS98	0.012	0.000	0.000	0.000	OK
61.000	15 min Winter	8	GY195	PS98	0.047	0.630	2.961	0.035	OK
59.002	15 min Winter	8	PS98	PS100	0.073	0.890	7.651	0.500	OK
59.003	960 min Winter	948	PS100	S136	0.118	0.436	0.660	0.041	OK
59.004	960 min Winter	833	S136	S102	0.150	0.423	0.660	0.045	Surcharged
62.000	15 min Summer	0	RWP196A	RE196B	0.000	0.000	0.000	0.000	OK
62.001	960 min Winter	939	RE196B	PS44	0.006	0.000	0.000	0.000	OK
63.000	960 min Winter	939	DF196	PS44	0.033	0.375	0.217	0.008	OK
62.002	960 min Winter	939	PS44	S102	0.106	0.721	0.505	0.014	OK
59.005	180 min Summer	151	S102	S22	0.225	0.743	12.838	0.349	OK
64.000	15 min Winter	8	RWP197F	RE197B	0.013	0.000	0.000	0.000	OK
64.001	15 min Winter	8	RE197B	PS163	0.025	0.603	0.928	0.139	OK
65.000	120 min Summer	76	DF197	PS163	0.017	0.432	0.452	0.019	OK
64.002	15 min Winter	9	PS163	PS164	0.039	0.366	0.915	0.053	OK
64.003	15 min Winter	8	PS164	PS165	0.046	1.168	5.364	0.273	OK
66.000	15 min Summer	0	RWP197B	PS165	0.000	0.000	0.000	0.000	OK
64.004	120 min Winter	72	PS165	S22	0.086	1.161	2.031	0.050	OK
67.000	15 min Summer	0	ACO198	RE198B	0.000	0.000	0.000	0.000	OK
67.001	15 min Winter	8	RE198B	PS160	0.029	0.000	0.000	0.000	OK
67.002	15 min Winter	8	PS160	PS161	0.056	1.037	4.728	0.643	OK
67.003	15 min Winter	8	PS161	PS159	0.044	1.421	4.690	0.550	OK
68.000	15 min Winter	8	RE198A	PS683	0.032	0.765	1.675	0.243	OK
69.000	15 min Winter	8	RWP198E	PS683	0.015	0.000	0.000	0.000	OK
68.001	15 min Winter	8	PS683	PS159	0.032	0.764	1.654	0.207	OK
70.000	120 min Summer	81	DF198	PS159	0.017	0.681	0.514	0.017	OK
67.004	120 min Winter	72	PS159	S22	0.085	1.571	2.396	0.041	OK
59.006	60 min Winter	44	S22	S17	0.225	1.049	23.885	0.612	OK
1.013	30 min Winter	29	S17	S18	0.375	1.563	144.400	1.456	Surcharged
1.014	30 min Winter	26	S18	S19	0.375	2.833	143.845	0.659	Surcharged
1.015	60 min Winter	36	S19	S20	0.375	0.462	25.915	0.132	Surcharged
1.016	960 min Winter	924	S20	S21	0.018	1.113	1.661	0.013	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
RWP228A	-	0	5.150	0.000	0.000		OK
RE228A	-	0	5.100	0.000	0.000		OK
RWP228C	-	0	5.150	0.000	0.000		OK
RE228B	-	0	5.100	0.000	0.000		OK
PS777	15 min Winter	12	5.075	0.060	0.383		OK
PS834	15 min Winter	12	5.075	0.075	0.784		OK
DF228	15 min Winter	12	5.069	0.094	0.001		OK
PS111	15 min Winter	12	5.069	0.319	0.844		Surcharged
S28	15 min Winter	12	5.067	0.767	10.647		Surcharged
ACO235	15 min Winter	12	5.084	0.114	0.151		Surcharged
RWP235C	15 min Winter	12	5.084	0.084	0.120		OK
RE235A	15 min Winter	12	5.083	0.208	1.161		Surcharged
DF235	15 min Winter	12	5.075	0.275	0.084		Surcharged
RWP235A	15 min Winter	12	5.075	0.075	0.027		OK
PS107	15 min Winter	12	5.075	0.375	0.756		Surcharged
S54	15 min Winter	12	5.073	0.723	0.575		Surcharged
RWP239B	-	0	5.375	0.000	0.000		OK
RE239B	-	0	5.350	0.000	0.000		OK
RWP238B	-	0	5.375	0.000	0.000		OK
PS253	-	0	5.225	0.000	0.000		OK
RE236B	15 min Winter	8	5.160	0.060	5.727		OK
PS251	15 min Winter	12	5.094	0.194	2.497		Surcharged
RE236A	-	0	5.100	0.000	0.000		OK
DF237	60 min Winter	60	5.113	0.013	0.609		OK
PS109	15 min Winter	12	5.075	0.325	2.662		Surcharged
RWP239A	15 min Winter	8	5.411	0.036	0.037		OK
RE239A	15 min Winter	8	5.411	0.061	6.736		OK
RWP238A	-	0	5.375	0.000	0.000		OK
PS255	15 min Winter	12	5.074	0.074	3.096		OK
S53	15 min Winter	12	5.068	0.818	10.061		Surcharged
DF226	60 min Winter	61	5.190	0.015	0.624		OK
RWP227B	-	0	5.225	0.000	0.000		OK
PS115	15 min Winter	12	5.062	0.162	0.001		Surcharged
S27	15 min Winter	12	5.061	0.886	22.396		Surcharged
PS793	15 min Winter	8	5.256	0.056	3.888		OK
RE221B	-	0	5.400	0.000	0.000		OK
PS792	15 min Winter	8	5.092	0.042	3.846		OK
RWP220C	-	0	5.350	0.000	0.000		OK
RE220A	15 min Winter	8	5.252	0.052	5.727		OK
DF220	60 min Winter	61	5.211	0.011	0.637		OK
RWP220A	-	0	5.350	0.000	0.000		OK
PS782	15 min Winter	11	5.065	0.215	6.081		Surcharged
DF240	60 min Winter	61	5.243	0.018	0.621		OK
PS143	60 min Winter	61	5.164	0.014	0.622		OK
S135	15 min Winter	11	5.058	0.483	19.767		Surcharged
RE222A	15 min Winter	10	5.394	0.119	0.185		Surcharged
RWP223E	15 min Winter	10	5.395	0.195	1.215		Surcharged
PS798	15 min Winter	10	5.395	0.245	8.314		Surcharged
ACO222	15 min Winter	8	5.186	0.036	2.660		OK
RWP222A	-	0	5.300	0.000	0.000		OK
PS90	15 min Winter	12	5.168	0.068	1.179		OK
RWP223C	-	0	5.200	0.000	0.000		OK
PS742	15 min Winter	12	5.165	0.165	8.477		Surcharged
S151	15 min Winter	12	5.029	0.929	46.969		Surcharged
RE223A	15 min Winter	12	4.940	0.040	0.000		OK
ACO224B	-	0	5.045	0.000	0.000		OK
PS829	15 min Winter	12	4.938	0.188	2.281		Surcharged
PS744	15 min Winter	12	4.917	0.297	2.507		Surcharged
RWP225B	-	0	5.000	0.000	0.000		OK
RE225A	-	0	4.950	0.000	0.000		OK
PS830	15 min Winter	11	4.908	0.058	0.830		OK
GY225	15 min Winter	11	4.907	0.032	0.215		OK
PS746	15 min Winter	11	4.906	0.506	1.445		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS745	15 min Winter	11	4.903	0.580	2.193		Surcharged
S24	15 min Winter	11	4.901	0.876	64.468		Surcharged
RE202A	-	0	4.700	0.000	0.000		OK
PS666	1440 min Winter	1402	4.571	0.071	0.000		OK
RWP202B	-	0	4.700	0.000	0.000		OK
PS667	1440 min Winter	1400	4.570	0.320	0.098		Surcharged
S25	1440 min Winter	1392	4.570	0.720	0.498		Surcharged
RWP204C	-	0	4.800	0.000	0.000		OK
RE204A	-	0	4.750	0.000	0.000		OK
RWP204G	-	0	4.800	0.000	0.000		OK
ACO204	-	0	4.970	0.000	0.000		OK
PS649	15 min Winter	8	4.690	0.040	2.772		OK
RWP204E	-	0	4.800	0.000	0.000		OK
PS147	1440 min Winter	1401	4.572	0.122	0.008		Surcharged
DF204	60 min Winter	60	4.912	0.012	0.583		OK
RWP203A	-	0	4.900	0.000	0.000		OK
PS652	1440 min Winter	1401	4.571	0.321	0.066		Surcharged
S14	1440 min Winter	1392	4.571	0.571	0.087		Surcharged
RWP202D	-	0	4.700	0.000	0.000		OK
DF202	60 min Winter	62	4.614	0.014	0.555		OK
PS151	1440 min Winter	1400	4.571	0.121	0.039		OK
S15	1440 min Winter	1392	4.571	0.691	0.151		Surcharged
S26	1440 min Winter	1392	4.570	0.770	0.758		Surcharged
RE201A	-	0	4.650	0.000	0.000		OK
ACO201	-	0	4.670	0.000	0.000		OK
PS669	1440 min Winter	1401	4.572	0.072	0.000		OK
YG201A	-	0	4.600	0.000	0.000		OK
PS670	1440 min Winter	1401	4.571	0.121	0.009		Surcharged
RWP201A	-	0	4.700	0.000	0.000		OK
RE201B	-	0	4.650	0.000	0.000		OK
PS678	1440 min Winter	1392	4.571	0.071	0.000		OK
RWP200D	-	0	4.700	0.000	0.000		OK
PS157	1440 min Winter	1392	4.571	0.296	0.062		Surcharged
RWP200C	-	0	4.900	0.000	0.000		OK
RE200C	15 min Winter	8	4.841	0.041	2.200		OK
ACO200	15 min Winter	9	4.766	0.021	0.000		OK
PS799	15 min Winter	9	4.766	0.041	2.109		OK
RWP200F	-	0	4.900	0.000	0.000		OK
RWP200A	-	0	4.800	0.000	0.000		OK
PS200A	15 min Winter	9	4.739	0.039	2.131		OK
DF200	60 min Winter	63	4.763	0.013	0.604		OK
RWP200E	15 min Winter	8	4.744	0.044	5.846		OK
PS153	1440 min Winter	1393	4.571	0.046	0.055		OK
S131	1440 min Winter	1391	4.571	0.371	0.120		Surcharged
S132	1440 min Winter	1392	4.570	0.847	0.832		Surcharged
RWP199A	-	0	4.700	0.000	0.000		OK
PS680	1440 min Winter	1414	4.573	0.048	0.000		OK
RWP199C	-	0	4.700	0.000	0.000		OK
PS681	1440 min Winter	1411	4.571	0.196	0.043		Surcharged
RE200B	15 min Winter	8	4.716	0.066	8.048		OK
DF199	60 min Winter	60	4.761	0.011	0.540		OK
RWP199E	-	0	4.700	0.000	0.000		OK
PS155	1440 min Winter	1411	4.571	0.346	0.034		Surcharged
S16	1440 min Winter	1406	4.570	0.905	0.905		Surcharged
DF231	60 min Winter	60	4.915	0.015	0.570		OK
PS101	60 min Winter	60	4.812	0.012	0.570		OK
RWP195F	-	0	4.700	0.000	0.000		OK
GY195	15 min Winter	8	4.797	0.022	3.853		OK
PS98	1440 min Winter	1415	4.572	0.172	0.035		Surcharged
PS100	1440 min Winter	1415	4.572	0.247	0.026		Surcharged
S136	1440 min Winter	1415	4.572	0.322	0.027		Surcharged
RWP196A	-	0	4.800	0.000	0.000		OK
RE196B	-	0	4.650	0.000	0.000		OK
DF196	1440 min Winter	1411	4.571	0.071	0.021		OK
PS44	1440 min Winter	1411	4.571	0.221	0.083		Surcharged
S102	1440 min Winter	1397	4.571	0.571	0.233		Surcharged
RWP197F	-	0	4.900	0.000	0.000		OK
RE197B	15 min Winter	8	4.879	0.029	1.226		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
DF197	60 min Winter	60	4.766	0.016	0.557		OK
PS163	15 min Winter	8	4.676	0.026	1.206		OK
PS164	15 min Winter	8	4.614	0.064	7.033		OK
RWP197B	-	0	4.900	0.000	0.000		OK
PS165	1440 min Winter	1402	4.571	0.171	0.067		Surcharged
ACO198	-	0	5.045	0.000	0.000		OK
RE198B	-	0	5.000	0.000	0.000		OK
PS160	15 min Winter	8	4.920	0.070	6.193		OK
PS161	15 min Winter	8	4.763	0.063	6.128		OK
RE198A	15 min Winter	8	4.939	0.039	2.200		OK
RWP198E	-	0	5.075	0.000	0.000		OK
PS683	15 min Winter	8	4.835	0.035	2.175		OK
DF198	60 min Winter	64	4.791	0.016	0.633		OK
PS159	15 min Winter	8	4.638	0.038	8.230		OK
S22	1440 min Winter	1391	4.570	0.745	0.424		Surcharged
S17	1440 min Winter	1391	4.570	0.940	0.012		Surcharged
S18	1440 min Winter	1442	4.573	0.973	0.415		Surcharged
S19	1440 min Winter	1383	4.570	1.020	1.806		Surcharged
S20	1440 min Winter	1379	4.573	1.073	2.920		Surcharged
S21	1440 min Winter	1383	3.019	0.019	1.789		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 Summer	0	RWP228A	RE228A	0.000	0.000	0.000	0.000	OK
1.001	15 min Winter	12	RE228A	PS777	0.030	0.000	0.000	0.000	OK
2.000	15 min Summer	0	RWP228C	RE228B	0.000	0.000	0.000	0.000	OK
2.001	15 min Winter	12	RE228B	PS777	0.030	0.000	0.000	0.000	OK
1.002	15 min Winter	14	PS777	PS834	0.067	0.310	0.549	0.105	OK
1.003	15 min Winter	14	PS834	PS111	0.087	0.267	1.476	0.206	OK
3.000	15 min Winter	14	DF228	PS111	0.122	0.809	0.997	0.020	OK
1.004	15 min Winter	14	PS111	S28	0.150	0.765	3.332	0.079	Surcharged
1.005	15 min Winter	8	S28	S27	0.225	0.639	16.445	0.455	OK
4.000	15 min Winter	15	ACO235	RE235A	0.100	0.307	1.603	0.160	Surcharged
5.000	15 min Winter	14	RWP235C	RE235A	0.092	0.102	0.627	0.028	OK
4.001	30 min Summer	18	RE235A	PS107	0.100	0.800	2.656	0.398	Surcharged
6.000	15 min Winter	16	DF235	PS107	0.150	0.678	2.379	0.081	Surcharged
7.000	15 min Winter	14	RWP235A	PS107	0.088	0.230	1.229	0.042	OK
4.002	15 min Winter	16	PS107	S54	0.150	1.371	5.944	0.121	Surcharged
4.003	15 min Winter	16	S54	S53	0.225	0.277	10.259	0.274	OK
8.000	15 min Summer	0	RWP239B	RE239B	0.000	0.000	0.000	0.000	OK
8.001	15 min Summer	0	RE239B	PS253	0.000	0.000	0.000	0.000	OK
9.000	15 min Summer	0	RWP238B	PS253	0.000	0.000	0.000	0.000	OK
8.002	15 min Winter	10	PS253	PS251	0.050	0.000	0.000	0.000	OK
10.000	15 min Winter	10	RE236B	PS251	0.076	1.071	5.679	0.667	OK
8.003	30 min Summer	18	PS251	PS109	0.100	1.252	5.366	0.759	Surcharged
11.000	15 min Summer	10	RE236A	PS109	0.050	0.000	0.000	0.000	OK
12.000	60 min Summer	60	DF237	PS109	0.055	1.024	0.594	0.035	OK
8.004	15 min Winter	9	PS109	S53	0.100	1.776	4.967	0.253	Surcharged
13.000	15 min Winter	12	RWP239A	RE239A	0.049	0.123	0.173	0.022	OK
13.001	15 min Winter	12	RE239A	PS255	0.055	1.708	6.674	0.627	OK
14.000	15 min Winter	12	RWP238A	PS255	0.037	0.000	0.000	0.000	OK
13.002	15 min Winter	12	PS255	S53	0.087	2.109	6.492	0.283	OK
4.004	15 min Winter	16	S53	S27	0.225	0.578	20.092	0.502	OK
15.000	30 min Winter	43	DF226	PS115	0.053	0.916	0.538	0.039	OK
16.000	15 min Winter	10	RWP227B	PS115	0.050	0.000	0.000	0.000	OK
15.001	30 min Summer	23	PS115	S27	0.100	1.017	1.343	0.074	Surcharged
1.006	15 min Winter	16	S27	S151	0.225	0.879	34.966	0.994	OK
17.000	15 min Winter	8	PS793	PS792	0.049	1.004	3.846	0.579	OK
18.000	15 min Winter	8	RE221B	PS792	0.021	0.000	0.000	0.000	OK
17.001	15 min Winter	10	PS792	PS782	0.069	1.203	3.806	0.374	OK
19.000	15 min Winter	8	RWP220C	RE220A	0.026	0.000	0.000	0.000	OK
19.001	15 min Winter	10	RE220A	PS782	0.073	1.370	5.688	0.539	OK
20.000	30 min Winter	43	DF220	PS782	0.077	0.795	0.547	0.010	OK
21.000	15 min Winter	10	RWP220A	PS782	0.050	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
17.002	30 min Summer	18	PS782	S135	0.150	1.495	8.969	0.294	Surcharged
22.000	60 min Winter	61	DF240	PS143	0.016	0.752	0.622	0.069	OK
22.001	60 min Summer	61	PS143	S135	0.055	0.918	0.607	0.042	OK
17.003	15 min Winter	9	S135	S151	0.225	0.925	28.456	0.396	OK
23.000	30 min Summer	20	RE222A	PS798	0.100	0.161	0.939	0.116	Surcharged
24.000	30 min Winter	16	RWP223E	PS798	0.100	0.501	2.791	0.294	Surcharged
23.001	30 min Summer	18	PS798	PS742	0.100	1.208	8.830	1.412	Surcharged
25.000	15 min Winter	11	ACO222	PS90	0.047	0.915	2.635	0.275	OK
26.000	15 min Winter	12	RWP222A	PS90	0.034	0.000	0.000	0.000	OK
25.001	15 min Winter	12	PS90	PS742	0.084	0.705	2.604	0.384	OK
27.000	15 min Winter	10	RWP223C	PS742	0.050	0.000	0.000	0.000	OK
23.002	30 min Summer	18	PS742	S151	0.100	2.103	10.335	0.495	Surcharged
1.007	15 min Winter	14	S151	S24	0.225	1.308	52.022	1.466	OK
28.000	15 min Winter	13	RE223A	PS829	0.070	0.115	0.569	0.092	OK
29.000	15 min Winter	10	ACO224B	PS829	0.050	0.000	0.000	0.000	OK
28.001	30 min Summer	17	PS829	PS744	0.100	1.034	5.031	0.822	Surcharged
28.002	15 min Winter	9	PS744	PS745	0.100	1.267	4.735	0.409	Surcharged
30.000	15 min Summer	0	RWP225B	RE225A	0.000	0.000	0.000	0.000	OK
30.001	15 min Winter	11	RE225A	PS830	0.029	0.000	0.000	0.000	OK
30.002	15 min Winter	13	PS830	PS746	0.079	0.183	0.936	0.083	OK
31.000	15 min Winter	12	GY225	PS746	0.091	0.046	0.508	0.008	OK
30.003	15 min Winter	18	PS746	PS745	0.150	0.220	2.468	0.158	Surcharged
28.003	15 min Winter	15	PS745	S24	0.150	0.821	6.582	0.161	Surcharged
1.008	15 min Winter	13	S24	S25	0.225	1.683	66.924	1.815	OK
32.000	1440 min Winter	1402	RE202A	PS666	0.035	0.000	0.000	0.000	OK
32.001	1440 min Winter	1529	PS666	PS667	0.085	0.030	0.186	0.022	OK
33.000	180 min Winter	164	RWP202B	PS667	0.050	0.000	0.000	0.000	OK
32.002	600 min Winter	601	PS667	S25	0.150	0.019	0.331	0.007	Surcharged
1.009	15 min Winter	13	S25	S26	0.225	1.848	73.495	1.913	OK
34.000	15 min Summer	0	RWP204C	RE204A	0.000	0.000	0.000	0.000	OK
34.001	15 min Winter	8	RE204A	PS649	0.020	0.000	0.000	0.000	OK
35.000	15 min Winter	8	RWP204G	PS649	0.020	0.000	0.000	0.000	OK
36.000	15 min Winter	8	ACO204	PS649	0.020	0.000	0.000	0.000	OK
34.002	720 min Winter	680	PS649	PS147	0.052	0.426	0.216	0.026	OK
37.000	720 min Winter	680	RWP204E	PS147	0.050	0.000	0.000	0.000	OK
34.003	1440 min Winter	1424	PS147	PS652	0.100	0.342	0.193	0.028	Surcharged
38.000	960 min Winter	736	DF204	PS652	0.077	0.623	0.207	0.005	OK
39.000	180 min Winter	165	RWP203A	PS652	0.050	0.000	0.000	0.000	OK
34.004	240 min Summer	206	PS652	S14	0.150	0.724	1.206	0.049	Surcharged
34.005	15 min Winter	8	S14	S15	0.225	0.553	15.544	0.443	OK
40.000	1440 min Winter	1400	RWP202D	PS151	0.035	0.000	0.000	0.000	OK
41.000	1440 min Winter	1400	DF202	PS151	0.062	0.322	0.138	0.004	OK
40.001	1440 min Winter	1400	PS151	S15	0.135	0.763	0.472	0.011	OK
34.006	15 min Winter	10	S15	S26	0.225	0.752	29.912	0.846	OK
1.010	15 min Winter	10	S26	S132	0.375	1.063	117.416	1.184	Surcharged
42.000	1440 min Winter	1401	RE201A	PS669	0.036	0.000	0.000	0.000	OK
43.000	1440 min Winter	1401	ACO201	PS669	0.036	0.000	0.000	0.000	OK
42.001	1440 min Winter	1529	PS669	PS670	0.086	0.032	0.090	0.010	OK
44.000	720 min Winter	680	YG201A	PS670	0.050	0.000	0.000	0.000	OK
42.002	1440 min Winter	1529	PS670	PS157	0.100	0.028	0.200	0.030	Surcharged
45.000	15 min Summer	0	RWP201A	RE201B	0.000	0.000	0.000	0.000	OK
45.001	1440 min Winter	1392	RE201B	PS678	0.035	0.000	0.000	0.000	OK
45.002	1440 min Winter	1686	PS678	PS157	0.085	0.018	0.095	0.011	OK
46.000	180 min Summer	166	RWP200D	PS157	0.050	0.000	0.000	0.000	OK
42.003	1440 min Winter	1529	PS157	S132	0.100	0.040	0.317	0.038	Surcharged
47.000	15 min Winter	8	RWP200C	RE200C	0.021	0.000	0.000	0.000	OK
47.001	15 min Winter	8	RE200C	PS799	0.041	0.722	2.173	0.359	OK
48.000	15 min Winter	12	ACO200	PS799	0.031	0.105	0.114	0.016	OK
47.002	15 min Winter	9	PS799	PS200A	0.040	0.732	2.131	0.350	OK
49.000	15 min Winter	9	RWP200F	PS200A	0.020	0.000	0.000	0.000	OK
50.000	15 min Winter	9	RWP200A	PS200A	0.020	0.000	0.000	0.000	OK
47.003	15 min Winter	9	PS200A	PS153	0.039	0.750	2.145	0.329	OK
51.000	1440 min Winter	1393	DF200	PS153	0.024	0.436	0.181	0.004	OK
52.000	15 min Winter	8	RWP200E	PS153	0.044	1.751	5.815	0.399	OK
47.004	1440 min Winter	1393	PS153	S132	0.098	0.914	0.536	0.010	OK
53.000	180 min Winter	138	S131	S132	0.150	0.622	0.637	0.018	Surcharged
1.011	30 min Summer	18	S132	S16	0.375	1.116	123.276	1.243	Surcharged
54.000	1440 min Winter	1414	RWP199A	PS680	0.024	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
54.001	1440 min Winter	1415	PS680	PS681	0.074	0.028	0.164	0.025	OK
55.000	360 min Summer	355	RWP199C	PS681	0.050	0.000	0.000	0.000	OK
54.002	1440 min Winter	1431	PS681	PS155	0.100	0.032	0.221	0.042	Surcharged
56.000	15 min Winter	8	RE200B	PS155	0.066	1.464	7.988	0.767	OK
57.000	240 min Winter	177	DF199	PS155	0.079	0.438	0.420	0.008	OK
58.000	180 min Summer	167	RWP199E	PS155	0.050	0.000	0.000	0.000	OK
54.003	240 min Summer	189	PS155	S16	0.150	1.041	2.658	0.074	Surcharged
1.012	30 min Summer	22	S16	S17	0.375	1.251	137.922	1.390	Surcharged
59.000	60 min Winter	60	DF231	PS101	0.014	0.693	0.570	0.021	OK
59.001	720 min Winter	680	PS101	PS98	0.077	0.221	0.242	0.006	OK
60.000	720 min Winter	680	RWP195F	PS98	0.050	0.000	0.000	0.000	OK
61.000	720 min Winter	680	GY195	PS98	0.076	0.290	0.300	0.004	OK
59.002	960 min Winter	830	PS98	PS100	0.150	0.471	0.810	0.053	Surcharged
59.003	480 min Summer	416	PS100	S136	0.150	0.608	2.021	0.126	Surcharged
59.004	240 min Summer	207	S136	S102	0.150	0.671	3.226	0.221	Surcharged
62.000	15 min Summer	0	RWP196A	RE196B	0.000	0.000	0.000	0.000	OK
62.001	360 min Winter	349	RE196B	PS44	0.050	0.000	0.000	0.000	OK
63.000	1440 min Winter	1411	DF196	PS44	0.111	0.362	0.195	0.007	OK
62.002	480 min Summer	475	PS44	S102	0.150	0.967	1.939	0.055	Surcharged
59.005	30 min Summer	17	S102	S22	0.225	0.998	38.231	1.039	OK
64.000	15 min Winter	8	RWP197F	RE197B	0.014	0.000	0.000	0.000	OK
64.001	15 min Winter	8	RE197B	PS163	0.029	0.649	1.206	0.180	OK
65.000	120 min Winter	81	DF197	PS163	0.018	0.456	0.545	0.023	OK
64.002	15 min Winter	8	PS163	PS164	0.045	0.406	1.188	0.069	OK
64.003	1440 min Winter	1406	PS164	PS165	0.086	0.552	0.445	0.023	OK
66.000	720 min Winter	681	RWP197B	PS165	0.050	0.000	0.000	0.000	OK
64.004	960 min Winter	831	PS165	S22	0.150	0.766	0.615	0.015	Surcharged
67.000	15 min Summer	0	ACO198	RE198B	0.000	0.000	0.000	0.000	OK
67.001	15 min Winter	8	RE198B	PS160	0.035	0.000	0.000	0.000	OK
67.002	15 min Winter	8	PS160	PS161	0.067	1.104	6.128	0.833	OK
67.003	15 min Winter	8	PS161	PS159	0.051	1.525	6.079	0.712	OK
68.000	15 min Winter	8	RE198A	PS683	0.037	0.823	2.175	0.315	OK
69.000	15 min Winter	8	RWP198E	PS683	0.018	0.000	0.000	0.000	OK
68.001	15 min Winter	8	PS683	PS159	0.037	0.827	2.151	0.269	OK
70.000	120 min Summer	85	DF198	PS159	0.019	0.753	0.641	0.021	OK
67.004	15 min Winter	8	PS159	S22	0.094	1.553	8.194	0.140	OK
59.006	30 min Summer	17	S22	S17	0.225	1.286	50.941	1.305	OK
1.013	30 min Summer	22	S17	S18	0.375	1.772	187.629	1.892	Surcharged
1.014	15 min Winter	18	S18	S19	0.375	3.584	191.893	0.879	Surcharged
1.015	30 min Winter	20	S19	S20	0.375	0.434	33.839	0.172	Surcharged
1.016	1440 min Winter	1383	S20	S21	0.019	1.136	1.789	0.014	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
RWP228A	30 min Winter	23	5.280	0.130	0.070		Surcharged
RE228A	30 min Winter	23	5.280	0.180	0.138		Surcharged
RWP228C	30 min Winter	23	5.280	0.130	0.066		Surcharged
RE228B	30 min Winter	23	5.280	0.180	0.132		Surcharged
PS777	30 min Winter	23	5.279	0.264	0.306		Surcharged
PS834	30 min Winter	23	5.278	0.278	0.313		Surcharged
DF228	30 min Winter	21	5.284	0.309	0.118		Surcharged
PS111	30 min Winter	21	5.284	0.534	3.095		Surcharged
S28	30 min Winter	21	5.285	0.985	13.451		Surcharged
ACO235	30 min Summer	20	5.292	0.322	0.000		Flood Risk
RWP235C	30 min Summer	20	5.291	0.291	0.000		Flood Risk
RE235A	30 min Summer	20	5.291	0.416	1.504		Flood Risk
DF235	30 min Winter	21	5.284	0.484	0.117		Surcharged
RWP235A	30 min Winter	21	5.284	0.284	0.094		Flood Risk
PS107	30 min Winter	21	5.284	0.584	1.142		Surcharged
S54	30 min Winter	21	5.284	0.934	0.955		Surcharged
RWP239B	-	0	5.375	0.000	0.000		OK
RE239B	-	0	5.350	0.000	0.000		OK
RWP238B	-	0	5.375	0.000	0.000		OK
PS253	30 min Winter	22	5.312	0.087	0.000		OK
RE236B	30 min Winter	21	5.332	0.232	2.950		Surcharged
PS251	30 min Winter	22	5.312	0.412	2.588		Surcharged
RE236A	30 min Winter	22	5.291	0.191	0.000		Surcharged
DF237	30 min Winter	22	5.291	0.191	0.163		Surcharged
PS109	30 min Winter	22	5.291	0.541	2.967		Surcharged
RWP239A	15 min Winter	8	5.420	0.045	0.000		OK
RE239A	15 min Winter	8	5.420	0.070	8.756		OK
RWP238A	-	0	5.375	0.000	0.000		OK
PS255	30 min Winter	21	5.301	0.301	3.886		Surcharged
S53	30 min Winter	21	5.283	1.033	11.932		Surcharged
DF226	30 min Winter	21	5.279	0.104	0.118		Surcharged
RWP227B	30 min Winter	21	5.279	0.054	0.063		OK
PS115	30 min Winter	21	5.279	0.379	0.133		Surcharged
S27	30 min Winter	21	5.276	1.101	25.050		Surcharged
PS793	30 min Summer	19	5.310	0.110	2.529		Surcharged
RE221B	-	0	5.400	0.000	0.000		OK
PS792	30 min Summer	19	5.289	0.239	2.572		Surcharged
RWP220C	-	0	5.350	0.000	0.000		OK
RE220A	15 min Winter	11	5.328	0.128	4.421		Surcharged
DF220	30 min Summer	19	5.280	0.080	0.090		OK
RWP220A	-	0	5.350	0.000	0.000		OK
PS782	30 min Summer	19	5.280	0.430	6.508		Surcharged
DF240	30 min Summer	19	5.275	0.050	0.094		OK
PS143	30 min Summer	19	5.274	0.124	0.158		Surcharged
S135	30 min Summer	19	5.271	0.696	21.355		Surcharged
RE222A	15 min Winter	11	5.593	0.318	0.000		Flood Risk
RWP223E	15 min Winter	11	5.593	0.393	1.208		Flood Risk
PS798	15 min Winter	11	5.592	0.442	8.470		Flood Risk
ACO222	15 min Winter	13	5.353	0.203	0.913		Surcharged
RWP222A	15 min Winter	13	5.352	0.052	0.000		OK
PS90	15 min Winter	13	5.352	0.252	1.027		Surcharged
RWP223C	30 min Summer	20	5.349	0.149	0.121		Surcharged
PS742	15 min Winter	13	5.348	0.348	8.138		Surcharged
S151	30 min Winter	21	5.240	1.140	50.332		Surcharged
RE223A	30 min Summer	20	5.144	0.244	0.000		Surcharged
ACO224B	15 min Winter	12	5.143	0.098	0.034		OK
PS829	15 min Winter	12	5.143	0.393	2.877		Surcharged
PS744	30 min Summer	20	5.115	0.495	2.841		Surcharged
RWP225B	30 min Summer	20	5.111	0.111	0.000		Surcharged
RE225A	30 min Summer	20	5.111	0.161	0.054		Surcharged
PS830	30 min Summer	20	5.108	0.258	0.109		Surcharged
GY225	30 min Summer	19	5.104	0.229	0.146		Surcharged
PS746	30 min Summer	19	5.103	0.703	2.388		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS745	30 min Summer	19	5.102	0.779	2.405		Surcharged
S24	30 min Summer	19	5.100	1.075	67.109		Surcharged
RE202A	1440 min Winter	1395	4.791	0.091	0.000		OK
PS666	1440 min Winter	1397	4.791	0.291	0.040		Surcharged
RWP202B	1440 min Winter	1395	4.791	0.091	0.009		OK
PS667	1440 min Winter	1395	4.791	0.541	0.032		Surcharged
S25	1440 min Winter	1398	4.791	0.941	0.774		Surcharged
RWP204C	-	0	4.800	0.000	0.000		OK
RE204A	1440 min Winter	1385	4.792	0.042	0.000		OK
RWP204G	-	0	4.800	0.000	0.000		OK
ACO204	-	0	4.970	0.000	0.000		OK
PS649	1440 min Winter	1380	4.792	0.142	0.016		Surcharged
RWP204E	-	0	4.800	0.000	0.000		OK
PS147	1440 min Winter	1390	4.791	0.341	0.028		Surcharged
DF204	120 min Winter	97	4.913	0.013	0.688		OK
RWP203A	-	0	4.900	0.000	0.000		OK
PS652	1440 min Winter	1389	4.791	0.541	0.029		Surcharged
S14	1440 min Winter	1389	4.791	0.791	0.111		Surcharged
RWP202D	1440 min Winter	1391	4.792	0.092	0.014		OK
DF202	1440 min Winter	1389	4.791	0.191	0.021		Surcharged
PS151	1440 min Winter	1389	4.791	0.341	0.045		Surcharged
S15	1440 min Winter	1398	4.791	0.911	0.180		Surcharged
S26	1440 min Winter	1398	4.791	0.991	1.029		Surcharged
RE201A	1440 min Winter	1392	4.792	0.142	0.000		Surcharged
ACO201	1440 min Winter	1397	4.792	0.122	0.003		Surcharged
PS669	1440 min Winter	1392	4.791	0.291	0.030		Surcharged
YG201A	1440 min Winter	1404	4.792	0.192	0.030		Surcharged
PS670	1440 min Winter	1398	4.791	0.341	0.034		Surcharged
RWP201A	1440 min Winter	1384	4.791	0.091	0.000		OK
RE201B	1440 min Winter	1397	4.791	0.141	0.019		Surcharged
PS678	1440 min Winter	1393	4.792	0.292	0.007		Surcharged
RWP200D	1440 min Winter	1397	4.792	0.092	0.025		OK
PS157	1440 min Winter	1397	4.791	0.516	0.028		Surcharged
RWP200C	-	0	4.900	0.000	0.000		OK
RE200C	15 min Winter	8	4.848	0.048	2.852		OK
ACO200	1440 min Winter	1394	4.791	0.046	0.000		OK
PS799	1440 min Winter	1394	4.791	0.066	0.024		OK
RWP200F	-	0	4.900	0.000	0.000		OK
RWP200A	-	0	4.800	0.000	0.000		OK
PS200A	1440 min Winter	1394	4.791	0.091	0.010		OK
DF200	1440 min Winter	1390	4.791	0.041	0.029		OK
RWP200E	1440 min Winter	1391	4.791	0.091	0.028		OK
PS153	1440 min Winter	1391	4.791	0.266	0.067		Surcharged
S131	1440 min Winter	1397	4.791	0.591	0.033		Flood Risk
S132	1440 min Winter	1398	4.791	1.068	1.210		Surcharged
RWP199A	1440 min Winter	1395	4.792	0.092	0.008		OK
PS680	1440 min Winter	1391	4.792	0.267	0.018		Surcharged
RWP199C	1440 min Winter	1386	4.792	0.092	0.030		OK
PS681	1440 min Winter	1386	4.791	0.416	0.045		Surcharged
RE200B	1440 min Winter	1398	4.792	0.142	0.033		Surcharged
DF199	1440 min Winter	1394	4.792	0.042	0.018		OK
RWP199E	1440 min Winter	1396	4.791	0.091	0.000		OK
PS155	1440 min Winter	1390	4.791	0.566	0.092		Surcharged
S16	1440 min Winter	1395	4.791	1.125	1.408		Surcharged
DF231	120 min Winter	97	4.916	0.016	0.668		OK
PS101	120 min Winter	97	4.813	0.013	0.668		OK
RWP195F	1440 min Winter	1390	4.791	0.091	0.000		OK
GY195	15 min Winter	8	4.799	0.024	4.994		OK
PS98	1440 min Winter	1392	4.791	0.391	0.065		Surcharged
PS100	1440 min Winter	1392	4.791	0.466	0.053		Surcharged
S136	1440 min Winter	1392	4.791	0.541	0.058		Flood Risk
RWP196A	-	0	4.800	0.000	0.000		OK
RE196B	1440 min Winter	1398	4.792	0.142	0.000		Surcharged
DF196	1440 min Winter	1393	4.791	0.291	0.030		Surcharged
PS44	1440 min Winter	1393	4.791	0.441	0.084		Surcharged
S102	1440 min Winter	1388	4.791	0.791	0.306		Surcharged
RWP197F	-	0	4.900	0.000	0.000		OK
RE197B	15 min Winter	8	4.883	0.033	1.589		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
DF197	1440 min Winter	1390	4.791	0.041	0.020		OK
PS163	1440 min Winter	1396	4.791	0.141	0.031		OK
PS164	1440 min Winter	1398	4.791	0.241	0.050		Surcharged
RWP197B	-	0	4.900	0.000	0.000		OK
PS165	1440 min Winter	1398	4.791	0.391	0.048		Surcharged
ACO198	-	0	5.045	0.000	0.000		OK
RE198B	-	0	5.000	0.000	0.000		OK
PS160	15 min Winter	8	4.939	0.089	8.027		OK
PS161	1440 min Winter	1394	4.791	0.091	0.028		OK
RE198A	15 min Winter	8	4.945	0.045	2.852		OK
RWP198E	-	0	5.075	0.000	0.000		OK
PS683	15 min Winter	8	4.841	0.041	2.821		OK
DF198	60 min Winter	73	4.792	0.017	0.752		OK
PS159	1440 min Winter	1389	4.791	0.191	0.084		Surcharged
S22	1440 min Winter	1392	4.791	0.966	0.373		Surcharged
S17	1440 min Winter	1396	4.791	1.161	1.697		Surcharged
S18	1440 min Winter	1396	4.791	1.191	1.715		Flood Risk
S19	1440 min Winter	1394	4.791	1.241	1.952		Surcharged
S20	1440 min Winter	1394	4.791	1.291	1.949		Flood Risk
S21	1440 min Winter	1394	3.019	0.019	1.949		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	30 min Winter	28	RWP228A	RE228A	0.100	0.133	0.613	0.051	Surcharged
1.001	30 min Winter	28	RE228A	PS777	0.100	0.153	1.148	0.185	Surcharged
2.000	30 min Winter	28	RWP228C	RE228B	0.100	0.145	0.665	0.052	Surcharged
2.001	30 min Winter	29	RE228B	PS777	0.100	0.190	1.181	0.183	Surcharged
1.002	15 min Winter	18	PS777	PS834	0.100	0.534	3.534	0.676	Surcharged
1.003	15 min Winter	18	PS834	PS111	0.100	0.684	4.753	0.664	Surcharged
3.000	30 min Winter	30	DF228	PS111	0.150	0.922	1.552	0.031	Surcharged
1.004	15 min Winter	19	PS111	S28	0.150	0.823	7.659	0.182	Surcharged
1.005	15 min Winter	8	S28	S27	0.225	0.648	20.819	0.577	OK
4.000	30 min Winter	31	ACO235	RE235A	0.100	0.494	2.795	0.278	Surcharged
5.000	15 min Winter	19	RWP235C	RE235A	0.100	0.302	1.671	0.076	Surcharged
4.001	15 min Winter	19	RE235A	PS107	0.100	0.851	4.231	0.634	Surcharged
6.000	30 min Winter	32	DF235	PS107	0.150	0.770	3.102	0.106	Surcharged
7.000	30 min Winter	30	RWP235A	PS107	0.100	0.254	1.445	0.049	Surcharged
4.002	15 min Winter	20	PS107	S54	0.150	1.354	7.828	0.160	Surcharged
4.003	15 min Winter	20	S54	S53	0.225	0.325	12.933	0.345	OK
8.000	15 min Summer	0	RWP239B	RE239B	0.000	0.000	0.000	0.000	OK
8.001	30 min Winter	22	RE239B	PS253	0.043	0.000	0.000	0.000	OK
9.000	30 min Winter	22	RWP238B	PS253	0.043	0.000	0.000	0.000	OK
8.002	30 min Winter	26	PS253	PS251	0.093	0.120	0.562	0.035	OK
10.000	15 min Winter	9	RE236B	PS251	0.100	1.117	7.103	0.834	Surcharged
8.003	15 min Winter	8	PS251	PS109	0.100	1.298	6.595	0.933	Surcharged
11.000	30 min Winter	28	RE236A	PS109	0.100	0.115	0.732	0.066	Surcharged
12.000	30 min Winter	28	DF237	PS109	0.100	1.062	1.110	0.066	Surcharged
8.004	15 min Winter	17	PS109	S53	0.100	1.919	5.682	0.290	Surcharged
13.000	15 min Winter	12	RWP239A	RE239A	0.057	0.196	0.458	0.059	OK
13.001	15 min Winter	10	RE239A	PS255	0.084	1.761	8.791	0.826	OK
14.000	15 min Summer	10	RWP238A	PS255	0.050	0.000	0.000	0.000	OK
13.002	15 min Winter	9	PS255	S53	0.100	2.278	7.937	0.345	Surcharged
4.004	15 min Winter	20	S53	S27	0.225	0.578	22.441	0.561	OK
15.000	30 min Winter	25	DF226	PS115	0.100	0.967	0.993	0.071	Surcharged
16.000	30 min Winter	24	RWP227B	PS115	0.077	0.076	0.378	0.018	OK
15.001	30 min Winter	31	PS115	S27	0.100	1.081	1.920	0.106	Surcharged
1.006	15 min Winter	19	S27	S151	0.225	0.974	38.717	1.101	OK
17.000	30 min Summer	19	PS793	PS792	0.100	1.053	4.779	0.719	Surcharged
18.000	15 min Summer	10	RE221B	PS792	0.050	0.000	0.000	0.000	OK
17.001	30 min Summer	17	PS792	PS782	0.100	1.218	4.623	0.455	Surcharged
19.000	15 min Winter	10	RWP220C	RE220A	0.050	0.000	0.000	0.000	OK
19.001	30 min Summer	18	RE220A	PS782	0.100	1.434	6.919	0.656	Surcharged
20.000	30 min Summer	22	DF220	PS782	0.115	0.829	0.799	0.015	OK
21.000	15 min Summer	9	RWP220A	PS782	0.050	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
17.002	15 min Winter	8	PS782	S135	0.150	1.503	11.139	0.365	Surcharged
22.000	30 min Summer	51	DF240	PS143	0.075	0.752	0.620	0.069	OK
22.001	30 min Winter	23	PS143	S135	0.100	0.931	1.143	0.078	Surcharged
17.003	15 min Winter	8	S135	S151	0.225	0.962	29.921	0.417	OK
23.000	15 min Winter	16	RE222A	PS798	0.100	0.194	1.338	0.165	Surcharged
24.000	60 min Summer	29	RWP223E	PS798	0.100	0.418	2.410	0.254	Surcharged
23.001	15 min Winter	8	PS798	PS742	0.100	1.222	9.231	1.476	Surcharged
25.000	15 min Winter	10	ACO222	PS90	0.100	0.975	3.417	0.357	Surcharged
26.000	15 min Winter	15	RWP222A	PS90	0.076	0.107	0.475	0.022	OK
25.001	15 min Winter	9	PS90	PS742	0.100	0.724	3.339	0.492	Surcharged
27.000	30 min Summer	25	RWP223C	PS742	0.100	0.143	0.813	0.045	Surcharged
23.002	30 min Summer	16	PS742	S151	0.100	1.992	11.068	0.530	Surcharged
1.007	15 min Winter	15	S151	S24	0.225	1.365	54.291	1.530	OK
28.000	15 min Winter	16	RE223A	PS829	0.100	0.222	1.327	0.214	Surcharged
29.000	15 min Winter	15	ACO224B	PS829	0.099	0.217	1.048	0.053	OK
28.001	15 min Winter	8	PS829	PS744	0.100	1.067	6.216	1.015	Surcharged
28.002	30 min Summer	15	PS744	PS745	0.100	1.246	4.969	0.430	Surcharged
30.000	30 min Winter	25	RWP225B	RE225A	0.100	0.531	2.153	0.121	Surcharged
30.001	30 min Summer	23	RE225A	PS830	0.100	0.171	1.220	0.157	Surcharged
30.002	15 min Winter	15	PS830	PS746	0.100	0.345	2.709	0.240	Surcharged
31.000	30 min Winter	27	GY225	PS746	0.150	0.058	0.748	0.011	Surcharged
30.003	15 min Winter	16	PS746	PS745	0.150	0.280	4.956	0.318	Surcharged
28.003	15 min Winter	16	PS745	S24	0.150	0.918	10.389	0.254	Surcharged
1.008	15 min Winter	15	S24	S25	0.225	1.797	71.439	1.937	OK
32.000	1440 min Winter	1895	RE202A	PS666	0.096	0.015	0.080	0.010	OK
32.001	960 min Winter	1513	PS666	PS667	0.100	0.041	0.318	0.037	Surcharged
33.000	1440 min Winter	1833	RWP202B	PS667	0.096	0.022	0.123	0.005	OK
32.002	15 min Winter	12	PS667	S25	0.150	0.108	1.901	0.038	Surcharged
1.009	15 min Winter	13	S25	S26	0.225	1.941	77.176	2.009	OK
34.000	1440 min Winter	1385	RWP204C	RE204A	0.021	0.000	0.000	0.000	OK
34.001	1440 min Winter	1528	RE204A	PS649	0.071	0.018	0.098	0.011	OK
35.000	720 min Winter	675	RWP204G	PS649	0.050	0.000	0.000	0.000	OK
36.000	720 min Winter	675	ACO204	PS649	0.050	0.000	0.000	0.000	OK
34.002	1440 min Summer	1391	PS649	PS147	0.100	0.444	0.246	0.030	Surcharged
37.000	15 min Winter	10	RWP204E	PS147	0.050	0.000	0.000	0.000	OK
34.003	180 min Summer	175	PS147	PS652	0.100	0.675	1.231	0.176	Surcharged
38.000	240 min Winter	170	DF204	PS652	0.081	0.859	0.592	0.014	OK
39.000	15 min Summer	9	RWP203A	PS652	0.050	0.000	0.000	0.000	OK
34.004	15 min Winter	11	PS652	S14	0.150	0.802	4.408	0.178	Surcharged
34.005	15 min Winter	11	S14	S15	0.225	0.536	20.027	0.571	OK
40.000	1440 min Winter	1840	RWP202D	PS151	0.096	0.014	0.072	0.007	OK
41.000	1440 min Summer	1390	DF202	PS151	0.150	0.392	0.257	0.008	Surcharged
40.001	360 min Summer	284	PS151	S15	0.150	1.107	2.493	0.057	Surcharged
34.006	15 min Winter	10	S15	S26	0.225	0.973	38.680	1.094	OK
1.010	15 min Winter	10	S26	S132	0.375	1.241	137.090	1.382	Surcharged
42.000	1440 min Winter	2316	RE201A	PS669	0.100	0.017	0.078	0.009	Surcharged
43.000	1440 min Winter	2167	ACO201	PS669	0.100	0.014	0.067	0.004	Surcharged
42.001	480 min Winter	797	PS669	PS670	0.100	0.022	0.145	0.016	Surcharged
44.000	960 min Summer	1061	YG201A	PS670	0.100	0.011	0.064	0.003	Surcharged
42.002	1440 min Winter	3578	PS670	PS157	0.100	0.034	0.176	0.026	Surcharged
45.000	1440 min Winter	2014	RWP201A	RE201B	0.096	0.053	0.123	0.007	OK
45.001	1440 min Summer	2125	RE201B	PS678	0.100	0.018	0.079	0.011	Surcharged
45.002	480 min Winter	709	PS678	PS157	0.100	0.021	0.140	0.016	Surcharged
46.000	1440 min Winter	1955	RWP200D	PS157	0.096	0.012	0.060	0.002	OK
42.003	180 min Summer	392	PS157	S132	0.100	0.039	0.305	0.036	Surcharged
47.000	15 min Winter	8	RWP200C	RE200C	0.024	0.000	0.000	0.000	OK
47.001	15 min Winter	8	RE200C	PS799	0.047	0.772	2.818	0.466	OK
48.000	1440 min Winter	1695	ACO200	PS799	0.056	0.057	0.060	0.008	OK
47.002	1440 min Winter	1394	PS799	PS200A	0.079	0.319	0.127	0.021	OK
49.000	1440 min Winter	1394	RWP200F	PS200A	0.046	0.000	0.000	0.000	OK
50.000	1440 min Winter	1394	RWP200A	PS200A	0.046	0.000	0.000	0.000	OK
47.003	1440 min Winter	1394	PS200A	PS153	0.096	0.329	0.153	0.023	OK
51.000	1440 min Winter	1390	DF200	PS153	0.096	0.468	0.233	0.006	OK
52.000	1440 min Winter	1391	RWP200E	PS153	0.096	0.767	0.862	0.059	OK
47.004	480 min Summer	444	PS153	S132	0.150	1.228	2.206	0.041	Surcharged
53.000	360 min Winter	250	S131	S132	0.150	0.626	0.912	0.025	Surcharged
1.011	15 min Winter	11	S132	S16	0.375	1.324	146.229	1.474	Surcharged
54.000	1440 min Winter	1552	RWP199A	PS680	0.096	0.013	0.065	0.003	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
54.001	600 min Winter	1268	PS680	PS681	0.100	0.031	0.204	0.031	Surcharged
55.000	1440 min Winter	1734	RWP199C	PS681	0.096	0.018	0.084	0.004	OK
54.002	720 min Winter	1560	PS681	PS155	0.100	0.035	0.277	0.052	Surcharged
56.000	1440 min Summer	1392	RE200B	PS155	0.100	0.760	0.714	0.069	Surcharged
57.000	1440 min Winter	1394	DF199	PS155	0.096	0.308	0.157	0.003	OK
58.000	1440 min Winter	1831	RWP199E	PS155	0.096	0.034	0.192	0.010	OK
54.003	60 min Winter	56	PS155	S16	0.150	1.308	5.779	0.161	Surcharged
1.012	15 min Winter	10	S16	S17	0.375	1.511	166.845	1.682	Surcharged
59.000	120 min Winter	97	DF231	PS101	0.015	0.730	0.668	0.024	OK
59.001	240 min Winter	181	PS101	PS98	0.081	0.290	0.571	0.014	OK
60.000	1440 min Winter	1560	RWP195F	PS98	0.096	0.011	0.068	0.006	OK
61.000	15 min Winter	9	GY195	PS98	0.087	0.689	4.979	0.058	OK
59.002	30 min Summer	17	PS98	PS100	0.150	0.974	12.011	0.785	Surcharged
59.003	30 min Summer	16	PS100	S136	0.150	0.966	11.836	0.737	Surcharged
59.004	15 min Winter	12	S136	S102	0.150	0.756	13.368	0.916	Surcharged
62.000	720 min Winter	675	RWP196A	RE196B	0.050	0.000	0.000	0.000	OK
62.001	960 min Winter	1507	RE196B	PS44	0.100	0.024	0.136	0.011	Surcharged
63.000	480 min Summer	400	DF196	PS44	0.150	0.483	0.592	0.022	Surcharged
62.002	180 min Summer	149	PS44	S102	0.150	1.149	3.090	0.087	Surcharged
59.005	15 min Winter	10	S102	S22	0.225	1.168	46.435	1.263	OK
64.000	15 min Winter	8	RWP197F	RE197B	0.016	0.000	0.000	0.000	OK
64.001	1440 min Winter	1385	RE197B	PS163	0.047	0.278	0.070	0.010	OK
65.000	1440 min Winter	1395	DF197	PS163	0.091	0.307	0.170	0.007	OK
64.002	1440 min Winter	1396	PS163	PS164	0.146	0.262	0.240	0.014	OK
64.003	600 min Summer	568	PS164	PS165	0.150	0.822	1.645	0.084	Surcharged
66.000	180 min Summer	176	RWP197B	PS165	0.050	0.000	0.000	0.000	OK
64.004	240 min Summer	197	PS165	S22	0.150	1.106	3.034	0.074	Surcharged
67.000	15 min Summer	0	ACO198	RE198B	0.000	0.000	0.000	0.000	OK
67.001	15 min Winter	8	RE198B	PS160	0.044	0.000	0.000	0.000	OK
67.002	15 min Winter	8	PS160	PS161	0.082	1.145	7.878	1.071	OK
67.003	1440 min Winter	1394	PS161	PS159	0.096	0.586	0.353	0.041	OK
68.000	15 min Winter	8	RE198A	PS683	0.043	0.883	2.821	0.409	OK
69.000	15 min Winter	8	RWP198E	PS683	0.020	0.000	0.000	0.000	OK
68.001	960 min Winter	691	PS683	PS159	0.053	0.329	0.174	0.022	OK
70.000	1440 min Winter	1398	DF198	PS159	0.083	0.486	0.283	0.009	OK
67.004	1440 min Summer	1392	PS159	S22	0.150	0.968	1.099	0.019	Surcharged
59.006	15 min Winter	10	S22	S17	0.225	1.612	64.081	1.642	OK
1.013	15 min Winter	13	S17	S18	0.375	2.128	231.068	2.331	Surcharged
1.014	15 min Winter	13	S18	S19	0.375	3.656	231.078	1.059	Surcharged
1.015	15 min Winter	12	S19	S20	0.375	0.523	31.494	0.160	Surcharged
1.016	1440 min Winter	1394	S20	S21	0.019	1.167	1.949	0.016	OK