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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway Network 2014.1.1		

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales			
Return Period (years)	1	Add Flow / Climate Change (%)	0
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio R	0.400	Maximum Backdrop Height (m)	1.500
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	1.200
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500
Volumetric Runoff Coeff.	0.750		

Designed with Level Soffits

Time Area Diagram for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS






Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.268	4-8	0.533	8-12	0.018

Total Area Contributing (ha) = 0.819

Total Pipe Volume (m³) = 42.519


Network Design Table for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS

« - Indicates pipe capacity < flow
















PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
1.000	25.810	0.400	64.5	0.035	5.00	0.0	0.600	o	225	
1.001	45.832	0.360	127.3	0.063	0.00	0.0	0.600	o	225	
1.002	27.693	0.200	138.5	0.035	0.00	0.0	0.600	o	300	
1.003	26.099	0.253	103.2	0.019	0.00	0.0	0.600	o	300	
1.004	24.713	0.513	48.2	0.053	0.00	0.0	0.600	o	300	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.26	76.900	0.035	0.0	0.0	0.0	1.63	64.8	4.7
1.001	50.00	5.92	76.500	0.098	0.0	0.0	0.0	1.16	46.0	13.3
1.002	49.32	6.27	76.065	0.133	0.0	0.0	0.0	1.33	94.3	17.8
1.003	48.29	6.55	75.865	0.152	0.0	0.0	0.0	1.55	109.4	19.9
1.004	47.65	6.73	75.612	0.205	0.0	0.0	0.0	2.27	160.5	26.5

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Network Design Table for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
2.000	16.795	0.190	88.4	0.054	5.00	0.0	0.600	o	225	
2.001	34.270	0.300	114.2	0.039	0.00	0.0	0.600	o	300	
2.002	20.415	0.136	150.1	0.077	0.00	0.0	0.600	o	300	
2.003	26.416	0.200	132.1	0.053	0.00	0.0	0.600	o	450	
1.005	6.274	0.020	313.7	0.000	0.00	0.0	0.600	o	450	
1.006	4.311	0.015	287.4	0.000	0.00	0.0	0.600	o	450	
1.007	20.789	0.200	103.9	0.000	0.00	0.0	0.600	o	450	
1.008	22.627	0.100	226.3	0.085	0.00	0.0	0.600	o	450	
1.009	53.267	0.269	198.0	0.166	0.00	0.0	0.600	o	450	
3.000	17.110	0.355	48.2	0.063	5.00	0.0	0.600	o	225	
3.001	5.157	0.175	29.5	0.025	0.00	0.0	0.600	o	300	
1.010	15.860	0.050	317.2	0.052	0.00	0.0	0.600	o	450	
1.011	6.954	0.100	69.5	0.000	0.00	0.0	0.600	o	450	
1.012	8.064	0.020	403.2	0.000	0.00	0.0	0.600	o	450	
1.013	59.620	0.375	159.0	0.000	0.00	0.0	0.600	o	225	

Network Results Table


PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
2.000	50.00	5.20	76.000	0.054	0.0	0.0	0.0	1.39	55.3	7.3
2.001	50.00	5.59	75.735	0.093	0.0	0.0	0.0	1.47	103.9	12.6
2.002	50.00	5.86	75.435	0.170	0.0	0.0	0.0	1.28	90.5	23.0
2.003	49.96	6.10	75.149	0.223	0.0	0.0	0.0	1.77	281.1	30.2
1.005	47.33	6.82	74.949	0.428	0.0	0.0	0.0	1.14	181.7	54.9
1.006	47.13	6.88	74.929	0.428	0.0	0.0	0.0	1.19	189.9	54.9
1.007	46.55	7.06	74.914	0.428	0.0	0.0	0.0	1.99	317.1	54.9
1.008	45.64	7.34	74.714	0.513	0.0	0.0	0.0	1.35	214.3	63.4
1.009	43.79	7.95	74.614	0.679	0.0	0.0	0.0	1.44	229.2	80.5
3.000	50.00	5.15	74.950	0.063	0.0	0.0	0.0	1.89	75.1	8.5
3.001	50.00	5.18	74.520	0.088	0.0	0.0	0.0	2.91	205.5	11.9
1.010	43.13	8.19	74.195	0.819	0.0	0.0	0.0	1.14	180.7	95.7
1.011	43.00	8.23	74.145	0.819	0.0	0.0	0.0	2.44	388.2	95.7
1.012	42.64	8.37	74.045	0.819	0.0	0.0	0.0	1.01	160.0	95.7
1.013	40.28	9.33	74.025	0.819	0.0	0.0	0.0	1.03	41.1	95.7

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Manhole Schedules for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
1	77.500	0.600	Open Manhole	450	1.000	76.900	225				
2	77.251	0.751	Open Manhole	900	1.001	76.500	225	1.000	76.500	225	
3	77.793	1.728	Open Manhole	1200	1.002	76.065	300	1.001	76.140	225	
4	77.357	1.492	Open Manhole	1200	1.003	75.865	300	1.002	75.865	300	
5	77.108	1.496	Open Manhole	1200	1.004	75.612	300	1.003	75.612	300	
18	76.650	0.650	Open Manhole	450	2.000	76.000	225				
19	76.839	1.104	Open Manhole	1200	2.001	75.735	300	2.000	75.810	225	
20	76.521	1.086	Open Manhole	1200	2.002	75.435	300	2.001	75.435	300	
21	76.679	1.530	Open Manhole	1350	2.003	75.149	450	2.002	75.299	300	
6	77.203	2.254	Open Manhole	1350	1.005	74.949	450	1.004	75.099	300	
								2.003	74.949	450	
8	75.976	1.047	Open Manhole	2100	1.006	74.929	450	1.005	74.929	450	
9	76.590	1.676	Open Manhole	3660	1.007	74.914	450	1.006	74.914	450	
10	76.326	1.612	Open Manhole	1350	1.008	74.714	450	1.007	74.714	450	
11	76.132	1.518	Open Manhole	1350	1.009	74.614	450	1.008	74.614	450	
22	75.900	0.950	Open Manhole	450	3.000	74.950	225				
23	75.950	1.430	Open Manhole	900	3.001	74.520	300	3.000	74.595	225	
12	75.699	1.504	Open Manhole	1350	1.010	74.195	450	1.009	74.345	450	150
								3.001	74.345	300	
13	75.711	1.566	Open Manhole	1350	1.011	74.145	450	1.010	74.145	450	
15	75.200	1.155	Open Manhole	2100	1.012	74.045	450	1.011	74.045	450	
16	75.150	1.125	Open Manhole	3660	1.013	74.025	225	1.012	74.025	450	
17	75.600	1.950	Open Manhole	1200		OUTFALL		1.013	73.650	225	

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PIPELINE SCHEDULES for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	225	1	77.500	76.900	0.375	Open Manhole	450
1.001	o	225	2	77.251	76.500	0.526	Open Manhole	900
1.002	o	300	3	77.793	76.065	1.428	Open Manhole	1200
1.003	o	300	4	77.357	75.865	1.192	Open Manhole	1200
1.004	o	300	5	77.108	75.612	1.196	Open Manhole	1200
2.000	o	225	18	76.650	76.000	0.425	Open Manhole	450
2.001	o	300	19	76.839	75.735	0.804	Open Manhole	1200
2.002	o	300	20	76.521	75.435	0.786	Open Manhole	1200
2.003	o	450	21	76.679	75.149	1.080	Open Manhole	1350
1.005	o	450	6	77.203	74.949	1.804	Open Manhole	1350
1.006	o	450	8	75.976	74.929	0.597	Open Manhole	2100
1.007	o	450	9	76.590	74.914	1.226	Open Manhole	3660
1.008	o	450	10	76.326	74.714	1.162	Open Manhole	1350
1.009	o	450	11	76.132	74.614	1.068	Open Manhole	1350
3.000	o	225	22	75.900	74.950	0.725	Open Manhole	450
3.001	o	300	23	75.950	74.520	1.130	Open Manhole	900
1.010	o	450	12	75.699	74.195	1.054	Open Manhole	1350

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	25.810	64.5	2	77.251	76.500	0.526	Open Manhole	900
1.001	45.832	127.3	3	77.793	76.140	1.428	Open Manhole	1200
1.002	27.693	138.5	4	77.357	75.865	1.192	Open Manhole	1200
1.003	26.099	103.2	5	77.108	75.612	1.196	Open Manhole	1200
1.004	24.713	48.2	6	77.203	75.099	1.804	Open Manhole	1350
2.000	16.795	88.4	19	76.839	75.810	0.804	Open Manhole	1200
2.001	34.270	114.2	20	76.521	75.435	0.786	Open Manhole	1200
2.002	20.415	150.1	21	76.679	75.299	1.080	Open Manhole	1350
2.003	26.416	132.1	6	77.203	74.949	1.804	Open Manhole	1350
1.005	6.274	313.7	8	75.976	74.929	0.597	Open Manhole	2100
1.006	4.311	287.4	9	76.590	74.914	1.226	Open Manhole	3660
1.007	20.789	103.9	10	76.326	74.714	1.162	Open Manhole	1350
1.008	22.627	226.3	11	76.132	74.614	1.068	Open Manhole	1350
1.009	53.267	198.0	12	75.699	74.345	0.904	Open Manhole	1350
3.000	17.110	48.2	23	75.950	74.595	1.130	Open Manhole	900
3.001	5.157	29.5	12	75.699	74.345	1.054	Open Manhole	1350
1.010	15.860	317.2	13	75.711	74.145	1.116	Open Manhole	1350

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PIPELINE SCHEDULES for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.011	o	450	13	75.711	74.145	1.116	Open Manhole	1350
1.012	o	450	15	75.200	74.045	0.705	Open Manhole	2100
1.013	o	225	16	75.150	74.025	0.900	Open Manhole	3660

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.011	6.954	69.5	15	75.200	74.045	0.705	Open Manhole	2100
1.012	8.064	403.2	16	75.150	74.025	0.675	Open Manhole	3660
1.013	59.620	159.0	17	75.600	73.650	1.725	Open Manhole	1200

Free Flowing Outfall Details for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS


Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.013	17	75.600	73.650	73.615	1200	0

Simulation Criteria for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1
Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	1	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Storm Duration (mins)	30
Ratio R	0.400		

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Online Controls for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS

Hydro-Brake Optimum® Manhole: 9, DS/PN: 1.007, Volume (m³): 17.9

Unit Reference MD-SHE-0089-3000-0515-3000
 Design Head (m) 0.515
 Design Flow (l/s) 3.0
 Flush-Flo™ Calculated
 Objective Minimise upstream storage
 Diameter (mm) 89
 Invert Level (m) 74.914
 Minimum Outlet Pipe Diameter (mm) 150
 Suggested Manhole Diameter (mm) 1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.515	3.0
Flush-Flo™	0.159	3.0
Kick-Flo®	0.361	2.5
Mean Flow over Head Range	-	2.5


The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake Optimum® as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.8	1.200	4.4	3.000	6.7	7.000	10.1
0.200	2.9	1.400	4.7	3.500	7.3	7.500	10.5
0.300	2.8	1.600	5.0	4.000	7.7	8.000	10.8
0.400	2.7	1.800	5.3	4.500	8.2	8.500	11.2
0.500	2.9	2.000	5.6	5.000	8.6	9.000	11.5
0.600	3.2	2.200	5.8	5.500	9.0	9.500	11.8
0.800	3.6	2.400	6.1	6.000	9.4		
1.000	4.0	2.600	6.3	6.500	9.8		

Hydro-Brake Optimum® Manhole: 15, DS/PN: 1.012, Volume (m³): 4.8

Unit Reference MD-SHE-0098-5000-1500-5000
 Design Head (m) 1.500
 Design Flow (l/s) 5.0
 Flush-Flo™ Calculated
 Objective Minimise upstream storage
 Diameter (mm) 98
 Invert Level (m) 74.045
 Minimum Outlet Pipe Diameter (mm) 150
 Suggested Manhole Diameter (mm) 1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.500	5.0
Flush-Flo™	0.431	4.9


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Hydro-Brake Optimum® Manhole: 15, DS/PN: 1.012, Volume (m³): 4.8

Control Points	Head (m)	Flow (l/s)
Kick-Flo®	0.878	3.9
Mean Flow over Head Range	-	4.3

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake Optimum® as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	3.2	1.200	4.5	3.000	6.9	7.000	10.3
0.200	4.4	1.400	4.8	3.500	7.4	7.500	10.7
0.300	4.8	1.600	5.1	4.000	7.9	8.000	11.0
0.400	4.9	1.800	5.4	4.500	8.4	8.500	11.3
0.500	4.9	2.000	5.7	5.000	8.8	9.000	11.6
0.600	4.8	2.200	6.0	5.500	9.2	9.500	11.9
0.800	4.3	2.400	6.2	6.000	9.6		
1.000	4.1	2.600	6.5	6.500	10.0		

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Storage Structures for JNY8140 SW NETWORK DESIGN 2015 09 25.SWS

Infiltration Basin Manhole: 8, DS/PN: 1.006


Invert Level (m) 74.929 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 1.00
 Infiltration Coefficient Side (m/hr) 0.54720

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	243.0	0.382	415.0	0.764	602.0	1.146	803.0

Tank or Pond Manhole: 15, DS/PN: 1.012


Invert Level (m) 74.045

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	392.0	0.350	507.0	0.700	634.0

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Flows and Levels for Pipe 1.000 US/MH 1 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	76.900	76.501	-0.225	0.0	0.0
12	76.901	76.504	-0.224	0.0	0.1
18	76.902	76.506	-0.223	0.0	0.1
24	76.902	76.507	-0.223	0.0	0.1
30	76.902	76.508	-0.223	0.0	0.1
36	76.902	76.509	-0.223	0.0	0.1
42	76.902	76.509	-0.223	0.0	0.1
48	76.902	76.509	-0.223	0.0	0.1
54	76.902	76.509	-0.223	0.0	0.1
60	76.902	76.509	-0.223	0.0	0.1
66	76.902	76.509	-0.223	0.0	0.1
72	76.902	76.509	-0.223	0.0	0.1
78	76.903	76.510	-0.222	0.0	0.1
84	76.903	76.511	-0.222	0.0	0.2
90	76.903	76.512	-0.222	0.0	0.2
96	76.904	76.513	-0.221	0.0	0.2
102	76.904	76.515	-0.221	0.0	0.2
108	76.905	76.517	-0.220	0.0	0.3
114	76.905	76.520	-0.220	0.0	0.3
120	76.906	76.522	-0.219	0.0	0.3
126	76.907	76.523	-0.218	0.0	0.4
132	76.908	76.524	-0.217	0.0	0.4
138	76.908	76.525	-0.217	0.0	0.5
144	76.909	76.526	-0.216	0.0	0.5
150	76.910	76.527	-0.215	0.0	0.6
156	76.911	76.528	-0.214	0.0	0.6
162	76.912	76.529	-0.213	0.0	0.7
168	76.912	76.530	-0.213	0.0	0.7
174	76.913	76.531	-0.212	0.0	0.7
180	76.913	76.531	-0.212	0.0	0.7
186	76.913	76.531	-0.212	0.0	0.7
192	76.913	76.531	-0.212	0.0	0.7
198	76.912	76.530	-0.213	0.0	0.7
204	76.912	76.530	-0.213	0.0	0.7
210	76.911	76.529	-0.214	0.0	0.6
216	76.910	76.528	-0.215	0.0	0.6
222	76.909	76.527	-0.216	0.0	0.5
228	76.908	76.526	-0.217	0.0	0.5
234	76.908	76.525	-0.217	0.0	0.4
240	76.907	76.524	-0.218	0.0	0.4
246	76.906	76.523	-0.219	0.0	0.3
252	76.905	76.520	-0.220	0.0	0.3
258	76.905	76.518	-0.220	0.0	0.3
264	76.904	76.515	-0.221	0.0	0.2
270	76.904	76.514	-0.221	0.0	0.2

RPS P&D		Page 9
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.000 US/MH 1 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	76.903	76.512	-0.222	0.0	0.2
282	76.903	76.511	-0.222	0.0	0.2
288	76.903	76.510	-0.222	0.0	0.1
294	76.902	76.509	-0.223	0.0	0.1
300	76.902	76.509	-0.223	0.0	0.1
306	76.902	76.509	-0.223	0.0	0.1
312	76.902	76.509	-0.223	0.0	0.1
318	76.902	76.509	-0.223	0.0	0.1
324	76.902	76.509	-0.223	0.0	0.1
330	76.902	76.509	-0.223	0.0	0.1
336	76.902	76.508	-0.223	0.0	0.1
342	76.902	76.508	-0.223	0.0	0.1
348	76.902	76.506	-0.223	0.0	0.1
354	76.901	76.504	-0.224	0.0	0.1
360	76.900	76.502	-0.225	0.0	0.0
366	76.900	76.500	-0.225	0.0	0.0
372	76.900	76.500	-0.225	0.0	0.0
378	76.900	76.500	-0.225	0.0	0.0
384	76.900	76.500	-0.225	0.0	0.0
390	76.900	76.500	-0.225	0.0	0.0
396	76.900	76.500	-0.225	0.0	0.0
402	76.900	76.500	-0.225	0.0	0.0
408	76.900	76.500	-0.225	0.0	0.0
414	76.900	76.500	-0.225	0.0	0.0
420	76.900	76.500	-0.225	0.0	0.0
426	76.900	76.500	-0.225	0.0	0.0
432	76.900	76.500	-0.225	0.0	0.0
438	76.900	76.500	-0.225	0.0	0.0
444	76.900	76.500	-0.225	0.0	0.0
450	76.900	76.500	-0.225	0.0	0.0
456	76.900	76.500	-0.225	0.0	0.0
462	76.900	76.500	-0.225	0.0	0.0
468	76.900	76.500	-0.225	0.0	0.0
474	76.900	76.500	-0.225	0.0	0.0
480	76.900	76.500	-0.225	0.0	0.0
486	76.900	76.500	-0.225	0.0	0.0
492	76.900	76.500	-0.225	0.0	0.0
498	76.900	76.500	-0.225	0.0	0.0
504	76.900	76.500	-0.225	0.0	0.0
510	76.900	76.500	-0.225	0.0	0.0
516	76.900	76.500	-0.225	0.0	0.0
522	76.900	76.500	-0.225	0.0	0.0
528	76.900	76.500	-0.225	0.0	0.0
534	76.900	76.500	-0.225	0.0	0.0
540	76.900	76.500	-0.225	0.0	0.0

RPS P&D		Page 10
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.000 US/MH 1 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	76.900	76.500	-0.225	0.0	0.0
552	76.900	76.500	-0.225	0.0	0.0
558	76.900	76.500	-0.225	0.0	0.0
564	76.900	76.500	-0.225	0.0	0.0
570	76.900	76.500	-0.225	0.0	0.0
576	76.900	76.500	-0.225	0.0	0.0
582	76.900	76.500	-0.225	0.0	0.0
588	76.900	76.500	-0.225	0.0	0.0
594	76.900	76.500	-0.225	0.0	0.0
600	76.900	76.500	-0.225	0.0	0.0
606	76.900	76.500	-0.225	0.0	0.0
612	76.900	76.500	-0.225	0.0	0.0
618	76.900	76.500	-0.225	0.0	0.0
624	76.900	76.500	-0.225	0.0	0.0
630	76.900	76.500	-0.225	0.0	0.0
636	76.900	76.500	-0.225	0.0	0.0
642	76.900	76.500	-0.225	0.0	0.0
648	76.900	76.500	-0.225	0.0	0.0
654	76.900	76.500	-0.225	0.0	0.0
660	76.900	76.500	-0.225	0.0	0.0
666	76.900	76.500	-0.225	0.0	0.0
672	76.900	76.500	-0.225	0.0	0.0
678	76.900	76.500	-0.225	0.0	0.0
684	76.900	76.500	-0.225	0.0	0.0
690	76.900	76.500	-0.225	0.0	0.0
696	76.900	76.500	-0.225	0.0	0.0
702	76.900	76.500	-0.225	0.0	0.0
708	76.900	76.500	-0.225	0.0	0.0
714	76.900	76.500	-0.225	0.0	0.0
720	76.900	76.500	-0.225	0.0	0.0

RPS P&D		Page 11
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.001 US/MH 2 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	76.501	76.066	-0.224	0.0	0.0
12	76.504	76.069	-0.221	0.0	0.1
18	76.506	76.070	-0.219	0.0	0.2
24	76.507	76.072	-0.218	0.0	0.3
30	76.508	76.073	-0.217	0.0	0.3
36	76.509	76.073	-0.216	0.0	0.4
42	76.509	76.073	-0.216	0.0	0.4
48	76.509	76.073	-0.216	0.0	0.4
54	76.509	76.073	-0.216	0.0	0.4
60	76.509	76.073	-0.216	0.0	0.4
66	76.509	76.074	-0.216	0.0	0.4
72	76.509	76.074	-0.216	0.0	0.4
78	76.510	76.074	-0.215	0.0	0.4
84	76.511	76.075	-0.214	0.0	0.4
90	76.512	76.076	-0.213	0.0	0.5
96	76.513	76.077	-0.212	0.0	0.5
102	76.515	76.079	-0.210	0.0	0.6
108	76.517	76.081	-0.208	0.0	0.7
114	76.520	76.083	-0.205	0.0	0.8
120	76.522	76.086	-0.203	0.0	0.9
126	76.523	76.088	-0.202	0.0	1.0
132	76.524	76.091	-0.201	0.0	1.2
138	76.525	76.094	-0.200	0.0	1.3
144	76.526	76.096	-0.199	0.0	1.4
150	76.527	76.097	-0.198	0.0	1.6
156	76.528	76.098	-0.197	0.0	1.7
162	76.529	76.099	-0.196	0.0	1.8
168	76.530	76.099	-0.195	0.0	1.9
174	76.531	76.100	-0.194	0.0	2.0
180	76.531	76.100	-0.194	0.0	2.1
186	76.531	76.100	-0.194	0.0	2.1
192	76.531	76.100	-0.194	0.0	2.1
198	76.530	76.100	-0.195	0.0	2.0
204	76.530	76.099	-0.195	0.0	1.9
210	76.529	76.098	-0.196	0.0	1.8
216	76.528	76.097	-0.197	0.0	1.6
222	76.527	76.096	-0.198	0.0	1.5
228	76.526	76.095	-0.199	0.0	1.4
234	76.525	76.092	-0.200	0.0	1.2
240	76.524	76.089	-0.201	0.0	1.1
246	76.523	76.086	-0.202	0.0	1.0
252	76.520	76.084	-0.205	0.0	0.9
258	76.518	76.081	-0.207	0.0	0.8
264	76.515	76.079	-0.210	0.0	0.7
270	76.514	76.078	-0.211	0.0	0.6

RPS P&D		Page 12
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.001 US/MH 2 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	76.512	76.076	-0.213	0.0	0.5
282	76.511	76.075	-0.214	0.0	0.5
288	76.510	76.074	-0.215	0.0	0.4
294	76.509	76.074	-0.216	0.0	0.4
300	76.509	76.074	-0.216	0.0	0.4
306	76.509	76.073	-0.216	0.0	0.4
312	76.509	76.073	-0.216	0.0	0.4
318	76.509	76.073	-0.216	0.0	0.4
324	76.509	76.073	-0.216	0.0	0.4
330	76.509	76.073	-0.216	0.0	0.4
336	76.508	76.073	-0.217	0.0	0.4
342	76.508	76.072	-0.217	0.0	0.3
348	76.506	76.071	-0.219	0.0	0.3
354	76.504	76.069	-0.221	0.0	0.2
360	76.502	76.067	-0.223	0.0	0.1
366	76.500	76.065	-0.225	0.0	0.0
372	76.500	76.065	-0.225	0.0	0.0
378	76.500	76.065	-0.225	0.0	0.0
384	76.500	76.065	-0.225	0.0	0.0
390	76.500	76.065	-0.225	0.0	0.0
396	76.500	76.065	-0.225	0.0	0.0
402	76.500	76.065	-0.225	0.0	0.0
408	76.500	76.065	-0.225	0.0	0.0
414	76.500	76.065	-0.225	0.0	0.0
420	76.500	76.065	-0.225	0.0	0.0
426	76.500	76.065	-0.225	0.0	0.0
432	76.500	76.065	-0.225	0.0	0.0
438	76.500	76.065	-0.225	0.0	0.0
444	76.500	76.065	-0.225	0.0	0.0
450	76.500	76.065	-0.225	0.0	0.0
456	76.500	76.065	-0.225	0.0	0.0
462	76.500	76.065	-0.225	0.0	0.0
468	76.500	76.065	-0.225	0.0	0.0
474	76.500	76.065	-0.225	0.0	0.0
480	76.500	76.065	-0.225	0.0	0.0
486	76.500	76.065	-0.225	0.0	0.0
492	76.500	76.065	-0.225	0.0	0.0
498	76.500	76.065	-0.225	0.0	0.0
504	76.500	76.065	-0.225	0.0	0.0
510	76.500	76.065	-0.225	0.0	0.0
516	76.500	76.065	-0.225	0.0	0.0
522	76.500	76.065	-0.225	0.0	0.0
528	76.500	76.065	-0.225	0.0	0.0
534	76.500	76.065	-0.225	0.0	0.0
540	76.500	76.065	-0.225	0.0	0.0

RPS P&D		Page 13
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.001 US/MH 2 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	76.500	76.065	-0.225	0.0	0.0
552	76.500	76.065	-0.225	0.0	0.0
558	76.500	76.065	-0.225	0.0	0.0
564	76.500	76.065	-0.225	0.0	0.0
570	76.500	76.065	-0.225	0.0	0.0
576	76.500	76.065	-0.225	0.0	0.0
582	76.500	76.065	-0.225	0.0	0.0
588	76.500	76.065	-0.225	0.0	0.0
594	76.500	76.065	-0.225	0.0	0.0
600	76.500	76.065	-0.225	0.0	0.0
606	76.500	76.065	-0.225	0.0	0.0
612	76.500	76.065	-0.225	0.0	0.0
618	76.500	76.065	-0.225	0.0	0.0
624	76.500	76.065	-0.225	0.0	0.0
630	76.500	76.065	-0.225	0.0	0.0
636	76.500	76.065	-0.225	0.0	0.0
642	76.500	76.065	-0.225	0.0	0.0
648	76.500	76.065	-0.225	0.0	0.0
654	76.500	76.065	-0.225	0.0	0.0
660	76.500	76.065	-0.225	0.0	0.0
666	76.500	76.065	-0.225	0.0	0.0
672	76.500	76.065	-0.225	0.0	0.0
678	76.500	76.065	-0.225	0.0	0.0
684	76.500	76.065	-0.225	0.0	0.0
690	76.500	76.065	-0.225	0.0	0.0
696	76.500	76.065	-0.225	0.0	0.0
702	76.500	76.065	-0.225	0.0	0.0
708	76.500	76.065	-0.225	0.0	0.0
714	76.500	76.065	-0.225	0.0	0.0
720	76.500	76.065	-0.225	0.0	0.0

RPS P&D		Page 14
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.002 US/MH 3 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	76.066	75.866	-0.299	0.0	0.1
12	76.069	75.868	-0.296	0.0	0.2
18	76.070	75.870	-0.295	0.0	0.3
24	76.072	75.872	-0.293	0.0	0.4
30	76.073	75.873	-0.292	0.0	0.4
36	76.073	75.873	-0.292	0.0	0.5
42	76.073	75.873	-0.292	0.0	0.5
48	76.073	75.873	-0.292	0.0	0.5
54	76.073	75.873	-0.292	0.0	0.5
60	76.073	75.873	-0.292	0.0	0.5
66	76.074	75.873	-0.291	0.0	0.5
72	76.074	75.874	-0.291	0.0	0.5
78	76.074	75.874	-0.291	0.0	0.5
84	76.075	75.875	-0.290	0.0	0.6
90	76.076	75.875	-0.289	0.0	0.6
96	76.077	75.877	-0.288	0.0	0.7
102	76.079	75.879	-0.286	0.0	0.8
108	76.081	75.880	-0.284	0.0	0.9
114	76.083	75.883	-0.282	0.0	1.0
120	76.086	75.885	-0.279	0.0	1.2
126	76.088	75.888	-0.277	0.0	1.3
132	76.091	75.891	-0.274	0.0	1.5
138	76.094	75.894	-0.271	0.0	1.7
144	76.096	75.896	-0.269	0.0	1.9
150	76.097	75.897	-0.268	0.0	2.1
156	76.098	75.898	-0.267	0.0	2.3
162	76.099	75.898	-0.266	0.0	2.4
168	76.099	75.899	-0.266	0.0	2.6
174	76.100	75.900	-0.265	0.0	2.7
180	76.100	75.900	-0.265	0.0	2.8
186	76.100	75.900	-0.265	0.0	2.8
192	76.100	75.900	-0.265	0.0	2.8
198	76.100	75.899	-0.265	0.0	2.7
204	76.099	75.899	-0.266	0.0	2.6
210	76.098	75.898	-0.267	0.0	2.4
216	76.097	75.897	-0.268	0.0	2.2
222	76.096	75.896	-0.269	0.0	2.0
228	76.095	75.895	-0.270	0.0	1.8
234	76.092	75.892	-0.273	0.0	1.7
240	76.089	75.889	-0.276	0.0	1.5
246	76.086	75.886	-0.279	0.0	1.3
252	76.084	75.884	-0.281	0.0	1.2
258	76.081	75.881	-0.284	0.0	1.0
264	76.079	75.879	-0.286	0.0	0.9
270	76.078	75.878	-0.287	0.0	0.8

RPS P&D		Page 15
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.002 US/MH 3 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	76.076	75.876	-0.289	0.0	0.7
282	76.075	75.875	-0.290	0.0	0.6
288	76.074	75.874	-0.291	0.0	0.6
294	76.074	75.874	-0.291	0.0	0.5
300	76.074	75.874	-0.291	0.0	0.5
306	76.073	75.873	-0.292	0.0	0.5
312	76.073	75.873	-0.292	0.0	0.5
318	76.073	75.873	-0.292	0.0	0.5
324	76.073	75.873	-0.292	0.0	0.5
330	76.073	75.873	-0.292	0.0	0.5
336	76.073	75.873	-0.292	0.0	0.5
342	76.072	75.872	-0.293	0.0	0.4
348	76.071	75.871	-0.294	0.0	0.4
354	76.069	75.870	-0.296	0.0	0.3
360	76.067	75.868	-0.298	0.0	0.2
366	76.065	75.865	-0.300	0.0	0.0
372	76.065	75.865	-0.300	0.0	0.0
378	76.065	75.865	-0.300	0.0	0.0
384	76.065	75.865	-0.300	0.0	0.0
390	76.065	75.865	-0.300	0.0	0.0
396	76.065	75.865	-0.300	0.0	0.0
402	76.065	75.865	-0.300	0.0	0.0
408	76.065	75.865	-0.300	0.0	0.0
414	76.065	75.865	-0.300	0.0	0.0
420	76.065	75.865	-0.300	0.0	0.0
426	76.065	75.865	-0.300	0.0	0.0
432	76.065	75.865	-0.300	0.0	0.0
438	76.065	75.865	-0.300	0.0	0.0
444	76.065	75.865	-0.300	0.0	0.0
450	76.065	75.865	-0.300	0.0	0.0
456	76.065	75.865	-0.300	0.0	0.0
462	76.065	75.865	-0.300	0.0	0.0
468	76.065	75.865	-0.300	0.0	0.0
474	76.065	75.865	-0.300	0.0	0.0
480	76.065	75.865	-0.300	0.0	0.0
486	76.065	75.865	-0.300	0.0	0.0
492	76.065	75.865	-0.300	0.0	0.0
498	76.065	75.865	-0.300	0.0	0.0
504	76.065	75.865	-0.300	0.0	0.0
510	76.065	75.865	-0.300	0.0	0.0
516	76.065	75.865	-0.300	0.0	0.0
522	76.065	75.865	-0.300	0.0	0.0
528	76.065	75.865	-0.300	0.0	0.0
534	76.065	75.865	-0.300	0.0	0.0
540	76.065	75.865	-0.300	0.0	0.0

RPS P&D		Page 16
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.002 US/MH 3 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	76.065	75.865	-0.300	0.0	0.0
552	76.065	75.865	-0.300	0.0	0.0
558	76.065	75.865	-0.300	0.0	0.0
564	76.065	75.865	-0.300	0.0	0.0
570	76.065	75.865	-0.300	0.0	0.0
576	76.065	75.865	-0.300	0.0	0.0
582	76.065	75.865	-0.300	0.0	0.0
588	76.065	75.865	-0.300	0.0	0.0
594	76.065	75.865	-0.300	0.0	0.0
600	76.065	75.865	-0.300	0.0	0.0
606	76.065	75.865	-0.300	0.0	0.0
612	76.065	75.865	-0.300	0.0	0.0
618	76.065	75.865	-0.300	0.0	0.0
624	76.065	75.865	-0.300	0.0	0.0
630	76.065	75.865	-0.300	0.0	0.0
636	76.065	75.865	-0.300	0.0	0.0
642	76.065	75.865	-0.300	0.0	0.0
648	76.065	75.865	-0.300	0.0	0.0
654	76.065	75.865	-0.300	0.0	0.0
660	76.065	75.865	-0.300	0.0	0.0
666	76.065	75.865	-0.300	0.0	0.0
672	76.065	75.865	-0.300	0.0	0.0
678	76.065	75.865	-0.300	0.0	0.0
684	76.065	75.865	-0.300	0.0	0.0
690	76.065	75.865	-0.300	0.0	0.0
696	76.065	75.865	-0.300	0.0	0.0
702	76.065	75.865	-0.300	0.0	0.0
708	76.065	75.865	-0.300	0.0	0.0
714	76.065	75.865	-0.300	0.0	0.0
720	76.065	75.865	-0.300	0.0	0.0

RPS P&D		Page 17
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.003 US/MH 4 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	75.866	75.613	-0.299	0.0	0.0
12	75.868	75.615	-0.297	0.0	0.2
18	75.870	75.617	-0.295	0.0	0.3
24	75.872	75.618	-0.293	0.0	0.4
30	75.873	75.619	-0.292	0.0	0.5
36	75.873	75.619	-0.292	0.0	0.5
42	75.873	75.620	-0.292	0.0	0.6
48	75.873	75.620	-0.292	0.0	0.6
54	75.873	75.620	-0.292	0.0	0.6
60	75.873	75.620	-0.292	0.0	0.6
66	75.873	75.620	-0.292	0.0	0.6
72	75.874	75.620	-0.291	0.0	0.6
78	75.874	75.620	-0.291	0.0	0.6
84	75.875	75.621	-0.290	0.0	0.6
90	75.875	75.621	-0.290	0.0	0.7
96	75.877	75.623	-0.288	0.0	0.8
102	75.879	75.624	-0.286	0.0	0.9
108	75.880	75.626	-0.285	0.0	1.0
114	75.883	75.628	-0.282	0.0	1.2
120	75.885	75.630	-0.280	0.0	1.3
126	75.888	75.633	-0.277	0.0	1.5
132	75.891	75.636	-0.274	0.0	1.7
138	75.894	75.638	-0.271	0.0	1.9
144	75.896	75.641	-0.269	0.0	2.1
150	75.897	75.643	-0.268	0.0	2.4
156	75.898	75.644	-0.267	0.0	2.6
162	75.898	75.644	-0.267	0.0	2.8
168	75.899	75.645	-0.266	0.0	2.9
174	75.900	75.646	-0.265	0.0	3.1
180	75.900	75.646	-0.265	0.0	3.2
186	75.900	75.646	-0.265	0.0	3.2
192	75.900	75.646	-0.265	0.0	3.2
198	75.899	75.645	-0.266	0.0	3.1
204	75.899	75.645	-0.266	0.0	2.9
210	75.898	75.644	-0.267	0.0	2.8
216	75.897	75.643	-0.268	0.0	2.6
222	75.896	75.642	-0.269	0.0	2.3
228	75.895	75.640	-0.270	0.0	2.1
234	75.892	75.637	-0.273	0.0	2.0
240	75.889	75.634	-0.276	0.0	1.7
246	75.886	75.632	-0.279	0.0	1.5
252	75.884	75.629	-0.281	0.0	1.4
258	75.881	75.627	-0.284	0.0	1.2
264	75.879	75.625	-0.286	0.0	1.1
270	75.878	75.624	-0.287	0.0	0.9

RPS P&D		Page 18
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.003 US/MH 4 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.876	75.622	-0.289	0.0	0.8
282	75.875	75.621	-0.290	0.0	0.7
288	75.874	75.621	-0.291	0.0	0.7
294	75.874	75.620	-0.291	0.0	0.6
300	75.874	75.620	-0.291	0.0	0.6
306	75.873	75.620	-0.292	0.0	0.6
312	75.873	75.620	-0.292	0.0	0.6
318	75.873	75.620	-0.292	0.0	0.6
324	75.873	75.620	-0.292	0.0	0.6
330	75.873	75.620	-0.292	0.0	0.6
336	75.873	75.619	-0.292	0.0	0.6
342	75.872	75.619	-0.293	0.0	0.5
348	75.871	75.618	-0.294	0.0	0.5
354	75.870	75.617	-0.295	0.0	0.4
360	75.868	75.615	-0.297	0.0	0.2
366	75.865	75.612	-0.300	0.0	0.1
372	75.865	75.612	-0.300	0.0	0.0
378	75.865	75.612	-0.300	0.0	0.0
384	75.865	75.612	-0.300	0.0	0.0
390	75.865	75.612	-0.300	0.0	0.0
396	75.865	75.612	-0.300	0.0	0.0
402	75.865	75.612	-0.300	0.0	0.0
408	75.865	75.612	-0.300	0.0	0.0
414	75.865	75.612	-0.300	0.0	0.0
420	75.865	75.612	-0.300	0.0	0.0
426	75.865	75.612	-0.300	0.0	0.0
432	75.865	75.612	-0.300	0.0	0.0
438	75.865	75.612	-0.300	0.0	0.0
444	75.865	75.612	-0.300	0.0	0.0
450	75.865	75.612	-0.300	0.0	0.0
456	75.865	75.612	-0.300	0.0	0.0
462	75.865	75.612	-0.300	0.0	0.0
468	75.865	75.612	-0.300	0.0	0.0
474	75.865	75.612	-0.300	0.0	0.0
480	75.865	75.612	-0.300	0.0	0.0
486	75.865	75.612	-0.300	0.0	0.0
492	75.865	75.612	-0.300	0.0	0.0
498	75.865	75.612	-0.300	0.0	0.0
504	75.865	75.612	-0.300	0.0	0.0
510	75.865	75.612	-0.300	0.0	0.0
516	75.865	75.612	-0.300	0.0	0.0
522	75.865	75.612	-0.300	0.0	0.0
528	75.865	75.612	-0.300	0.0	0.0
534	75.865	75.612	-0.300	0.0	0.0
540	75.865	75.612	-0.300	0.0	0.0

RPS P&D		Page 19
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.003 US/MH 4 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	75.865	75.612	-0.300	0.0	0.0
552	75.865	75.612	-0.300	0.0	0.0
558	75.865	75.612	-0.300	0.0	0.0
564	75.865	75.612	-0.300	0.0	0.0
570	75.865	75.612	-0.300	0.0	0.0
576	75.865	75.612	-0.300	0.0	0.0
582	75.865	75.612	-0.300	0.0	0.0
588	75.865	75.612	-0.300	0.0	0.0
594	75.865	75.612	-0.300	0.0	0.0
600	75.865	75.612	-0.300	0.0	0.0
606	75.865	75.612	-0.300	0.0	0.0
612	75.865	75.612	-0.300	0.0	0.0
618	75.865	75.612	-0.300	0.0	0.0
624	75.865	75.612	-0.300	0.0	0.0
630	75.865	75.612	-0.300	0.0	0.0
636	75.865	75.612	-0.300	0.0	0.0
642	75.865	75.612	-0.300	0.0	0.0
648	75.865	75.612	-0.300	0.0	0.0
654	75.865	75.612	-0.300	0.0	0.0
660	75.865	75.612	-0.300	0.0	0.0
666	75.865	75.612	-0.300	0.0	0.0
672	75.865	75.612	-0.300	0.0	0.0
678	75.865	75.612	-0.300	0.0	0.0
684	75.865	75.612	-0.300	0.0	0.0
690	75.865	75.612	-0.300	0.0	0.0
696	75.865	75.612	-0.300	0.0	0.0
702	75.865	75.612	-0.300	0.0	0.0
708	75.865	75.612	-0.300	0.0	0.0
714	75.865	75.612	-0.300	0.0	0.0
720	75.865	75.612	-0.300	0.0	0.0

RPS P&D		Page 20
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.004 US/MH 5 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	75.613	74.953	-0.299	0.0	0.1
12	75.615	74.962	-0.297	0.0	0.2
18	75.617	74.967	-0.295	0.0	0.4
24	75.618	74.973	-0.294	0.0	0.6
30	75.619	74.977	-0.293	0.0	0.7
36	75.619	74.979	-0.293	0.0	0.7
42	75.620	74.980	-0.292	0.0	0.8
48	75.620	74.981	-0.292	0.0	0.8
54	75.620	74.981	-0.292	0.0	0.8
60	75.620	74.981	-0.292	0.0	0.8
66	75.620	74.981	-0.292	0.0	0.8
72	75.620	74.982	-0.292	0.0	0.8
78	75.620	74.983	-0.292	0.0	0.8
84	75.621	74.985	-0.291	0.0	0.9
90	75.621	74.988	-0.291	0.0	0.9
96	75.623	74.991	-0.289	0.0	1.0
102	75.624	74.996	-0.288	0.0	1.2
108	75.626	74.998	-0.286	0.0	1.4
114	75.628	75.001	-0.284	0.0	1.5
120	75.630	75.003	-0.282	0.0	1.8
126	75.633	75.007	-0.279	0.0	2.0
132	75.636	75.010	-0.276	0.0	2.3
138	75.638	75.014	-0.274	0.0	2.6
144	75.641	75.018	-0.271	0.0	2.8
150	75.643	75.022	-0.269	0.0	3.2
156	75.644	75.025	-0.268	0.0	3.4
162	75.644	75.028	-0.268	0.0	3.7
168	75.645	75.032	-0.267	0.0	3.9
174	75.646	75.034	-0.266	0.0	4.2
180	75.646	75.036	-0.266	0.0	4.3
186	75.646	75.036	-0.266	0.0	4.4
192	75.646	75.035	-0.266	0.0	4.3
198	75.645	75.037	-0.267	0.0	4.2
204	75.645	75.038	-0.267	0.0	4.0
210	75.644	75.039	-0.268	0.0	3.7
216	75.643	75.038	-0.269	0.0	3.5
222	75.642	75.038	-0.270	0.0	3.2
228	75.640	75.036	-0.272	0.0	2.9
234	75.637	75.035	-0.275	0.0	2.6
240	75.634	75.032	-0.278	0.0	2.4
246	75.632	75.030	-0.280	0.0	2.1
252	75.629	75.027	-0.283	0.0	1.9
258	75.627	75.024	-0.285	0.0	1.6
264	75.625	75.020	-0.287	0.0	1.4
270	75.624	75.017	-0.288	0.0	1.3

RPS P&D		Page 21
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.004 US/MH 5 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.622	75.013	-0.290	0.0	1.1
282	75.621	75.010	-0.291	0.0	1.0
288	75.621	75.007	-0.291	0.0	0.9
294	75.620	75.004	-0.292	0.0	0.9
300	75.620	75.001	-0.292	0.0	0.8
306	75.620	74.999	-0.292	0.0	0.8
312	75.620	74.997	-0.292	0.0	0.8
318	75.620	74.996	-0.292	0.0	0.8
324	75.620	74.995	-0.292	0.0	0.8
330	75.620	74.994	-0.292	0.0	0.8
336	75.619	74.992	-0.293	0.0	0.8
342	75.619	74.990	-0.293	0.0	0.7
348	75.618	74.987	-0.294	0.0	0.6
354	75.617	74.983	-0.295	0.0	0.5
360	75.615	74.978	-0.297	0.0	0.3
366	75.612	74.970	-0.300	0.0	0.1
372	75.612	74.967	-0.300	0.0	0.0
378	75.612	74.964	-0.300	0.0	0.0
384	75.612	74.961	-0.300	0.0	0.0
390	75.612	74.959	-0.300	0.0	0.0
396	75.612	74.957	-0.300	0.0	0.0
402	75.612	74.955	-0.300	0.0	0.0
408	75.612	74.953	-0.300	0.0	0.0
414	75.612	74.951	-0.300	0.0	0.0
420	75.612	74.950	-0.300	0.0	0.0
426	75.612	74.949	-0.300	0.0	0.0
432	75.612	74.949	-0.300	0.0	0.0
438	75.612	74.949	-0.300	0.0	0.0
444	75.612	74.949	-0.300	0.0	0.0
450	75.612	74.949	-0.300	0.0	0.0
456	75.612	74.949	-0.300	0.0	0.0
462	75.612	74.949	-0.300	0.0	0.0
468	75.612	74.949	-0.300	0.0	0.0
474	75.612	74.949	-0.300	0.0	0.0
480	75.612	74.949	-0.300	0.0	0.0
486	75.612	74.949	-0.300	0.0	0.0
492	75.612	74.949	-0.300	0.0	0.0
498	75.612	74.949	-0.300	0.0	0.0
504	75.612	74.949	-0.300	0.0	0.0
510	75.612	74.949	-0.300	0.0	0.0
516	75.612	74.949	-0.300	0.0	0.0
522	75.612	74.949	-0.300	0.0	0.0
528	75.612	74.949	-0.300	0.0	0.0
534	75.612	74.949	-0.300	0.0	0.0
540	75.612	74.949	-0.300	0.0	0.0

RPS P&D		Page 22
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.004 US/MH 5 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	75.612	74.949	-0.300	0.0	0.0
552	75.612	74.949	-0.300	0.0	0.0
558	75.612	74.949	-0.300	0.0	0.0
564	75.612	74.949	-0.300	0.0	0.0
570	75.612	74.949	-0.300	0.0	0.0
576	75.612	74.949	-0.300	0.0	0.0
582	75.612	74.949	-0.300	0.0	0.0
588	75.612	74.949	-0.300	0.0	0.0
594	75.612	74.949	-0.300	0.0	0.0
600	75.612	74.949	-0.300	0.0	0.0
606	75.612	74.949	-0.300	0.0	0.0
612	75.612	74.949	-0.300	0.0	0.0
618	75.612	74.949	-0.300	0.0	0.0
624	75.612	74.949	-0.300	0.0	0.0
630	75.612	74.949	-0.300	0.0	0.0
636	75.612	74.949	-0.300	0.0	0.0
642	75.612	74.949	-0.300	0.0	0.0
648	75.612	74.949	-0.300	0.0	0.0
654	75.612	74.949	-0.300	0.0	0.0
660	75.612	74.949	-0.300	0.0	0.0
666	75.612	74.949	-0.300	0.0	0.0
672	75.612	74.949	-0.300	0.0	0.0
678	75.612	74.949	-0.300	0.0	0.0
684	75.612	74.949	-0.300	0.0	0.0
690	75.612	74.949	-0.300	0.0	0.0
696	75.612	74.949	-0.300	0.0	0.0
702	75.612	74.949	-0.300	0.0	0.0
708	75.612	74.949	-0.300	0.0	0.0
714	75.612	74.949	-0.300	0.0	0.0
720	75.612	74.949	-0.300	0.0	0.0

RPS P&D		Page 23
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 2.000 US/MH 18 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	76.001	75.736	-0.224	0.0	0.0
12	76.002	75.737	-0.223	0.0	0.1
18	76.003	75.738	-0.222	0.0	0.1
24	76.004	75.739	-0.221	0.0	0.2
30	76.004	75.740	-0.221	0.0	0.2
36	76.004	75.740	-0.221	0.0	0.2
42	76.004	75.740	-0.221	0.0	0.2
48	76.004	75.740	-0.221	0.0	0.2
54	76.004	75.740	-0.221	0.0	0.2
60	76.004	75.740	-0.221	0.0	0.2
66	76.004	75.740	-0.221	0.0	0.2
72	76.005	75.740	-0.220	0.0	0.2
78	76.005	75.741	-0.220	0.0	0.2
84	76.005	75.741	-0.220	0.0	0.2
90	76.006	75.742	-0.219	0.0	0.3
96	76.007	75.743	-0.218	0.0	0.3
102	76.007	75.744	-0.218	0.0	0.3
108	76.008	75.745	-0.217	0.0	0.4
114	76.010	75.746	-0.215	0.0	0.4
120	76.011	75.748	-0.214	0.0	0.5
126	76.012	75.750	-0.213	0.0	0.6
132	76.014	75.752	-0.211	0.0	0.6
138	76.016	75.753	-0.209	0.0	0.7
144	76.017	75.755	-0.208	0.0	0.8
150	76.019	75.757	-0.206	0.0	0.9
156	76.021	75.759	-0.204	0.0	0.9
162	76.022	75.761	-0.203	0.0	1.0
168	76.023	75.762	-0.202	0.0	1.1
174	76.023	75.764	-0.202	0.0	1.1
180	76.023	75.765	-0.202	0.0	1.2
186	76.023	75.765	-0.202	0.0	1.2
192	76.023	75.764	-0.202	0.0	1.1
198	76.023	75.763	-0.202	0.0	1.1
204	76.022	75.761	-0.203	0.0	1.0
210	76.021	75.759	-0.204	0.0	1.0
216	76.019	75.758	-0.206	0.0	0.9
222	76.017	75.756	-0.208	0.0	0.8
228	76.016	75.754	-0.209	0.0	0.7
234	76.014	75.752	-0.211	0.0	0.7
240	76.012	75.750	-0.213	0.0	0.6
246	76.011	75.748	-0.214	0.0	0.5
252	76.010	75.747	-0.215	0.0	0.5
258	76.008	75.745	-0.217	0.0	0.4
264	76.007	75.744	-0.218	0.0	0.4
270	76.007	75.743	-0.218	0.0	0.3

RPS P&D		Page 24
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 2.000 US/MH 18 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	76.006	75.742	-0.219	0.0	0.3
282	76.005	75.741	-0.220	0.0	0.2
288	76.005	75.741	-0.220	0.0	0.2
294	76.005	75.741	-0.220	0.0	0.2
300	76.004	75.740	-0.221	0.0	0.2
306	76.004	75.740	-0.221	0.0	0.2
312	76.004	75.740	-0.221	0.0	0.2
318	76.004	75.740	-0.221	0.0	0.2
324	76.004	75.740	-0.221	0.0	0.2
330	76.004	75.740	-0.221	0.0	0.2
336	76.004	75.740	-0.221	0.0	0.2
342	76.004	75.739	-0.221	0.0	0.2
348	76.003	75.739	-0.222	0.0	0.1
354	76.002	75.737	-0.223	0.0	0.1
360	76.001	75.736	-0.224	0.0	0.0
366	76.000	75.735	-0.225	0.0	0.0
372	76.000	75.735	-0.225	0.0	0.0
378	76.000	75.735	-0.225	0.0	0.0
384	76.000	75.735	-0.225	0.0	0.0
390	76.000	75.735	-0.225	0.0	0.0
396	76.000	75.735	-0.225	0.0	0.0
402	76.000	75.735	-0.225	0.0	0.0
408	76.000	75.735	-0.225	0.0	0.0
414	76.000	75.735	-0.225	0.0	0.0
420	76.000	75.735	-0.225	0.0	0.0
426	76.000	75.735	-0.225	0.0	0.0
432	76.000	75.735	-0.225	0.0	0.0
438	76.000	75.735	-0.225	0.0	0.0
444	76.000	75.735	-0.225	0.0	0.0
450	76.000	75.735	-0.225	0.0	0.0
456	76.000	75.735	-0.225	0.0	0.0
462	76.000	75.735	-0.225	0.0	0.0
468	76.000	75.735	-0.225	0.0	0.0
474	76.000	75.735	-0.225	0.0	0.0
480	76.000	75.735	-0.225	0.0	0.0
486	76.000	75.735	-0.225	0.0	0.0
492	76.000	75.735	-0.225	0.0	0.0
498	76.000	75.735	-0.225	0.0	0.0
504	76.000	75.735	-0.225	0.0	0.0
510	76.000	75.735	-0.225	0.0	0.0
516	76.000	75.735	-0.225	0.0	0.0
522	76.000	75.735	-0.225	0.0	0.0
528	76.000	75.735	-0.225	0.0	0.0
534	76.000	75.735	-0.225	0.0	0.0
540	76.000	75.735	-0.225	0.0	0.0

RPS P&D		Page 25
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 2.000 US/MH 18 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	76.000	75.735	-0.225	0.0	0.0
552	76.000	75.735	-0.225	0.0	0.0
558	76.000	75.735	-0.225	0.0	0.0
564	76.000	75.735	-0.225	0.0	0.0
570	76.000	75.735	-0.225	0.0	0.0
576	76.000	75.735	-0.225	0.0	0.0
582	76.000	75.735	-0.225	0.0	0.0
588	76.000	75.735	-0.225	0.0	0.0
594	76.000	75.735	-0.225	0.0	0.0
600	76.000	75.735	-0.225	0.0	0.0
606	76.000	75.735	-0.225	0.0	0.0
612	76.000	75.735	-0.225	0.0	0.0
618	76.000	75.735	-0.225	0.0	0.0
624	76.000	75.735	-0.225	0.0	0.0
630	76.000	75.735	-0.225	0.0	0.0
636	76.000	75.735	-0.225	0.0	0.0
642	76.000	75.735	-0.225	0.0	0.0
648	76.000	75.735	-0.225	0.0	0.0
654	76.000	75.735	-0.225	0.0	0.0
660	76.000	75.735	-0.225	0.0	0.0
666	76.000	75.735	-0.225	0.0	0.0
672	76.000	75.735	-0.225	0.0	0.0
678	76.000	75.735	-0.225	0.0	0.0
684	76.000	75.735	-0.225	0.0	0.0
690	76.000	75.735	-0.225	0.0	0.0
696	76.000	75.735	-0.225	0.0	0.0
702	76.000	75.735	-0.225	0.0	0.0
708	76.000	75.735	-0.225	0.0	0.0
714	76.000	75.735	-0.225	0.0	0.0
720	76.000	75.735	-0.225	0.0	0.0

RPS P&D		Page 26
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 2.001 US/MH 19 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	75.736	75.437	-0.299	0.0	0.0
12	75.737	75.440	-0.298	0.0	0.1
18	75.738	75.443	-0.297	0.0	0.2
24	75.739	75.445	-0.296	0.0	0.3
30	75.740	75.446	-0.295	0.0	0.3
36	75.740	75.446	-0.295	0.0	0.3
42	75.740	75.446	-0.295	0.0	0.3
48	75.740	75.447	-0.295	0.0	0.4
54	75.740	75.447	-0.295	0.0	0.4
60	75.740	75.447	-0.295	0.0	0.4
66	75.740	75.447	-0.295	0.0	0.4
72	75.740	75.447	-0.295	0.0	0.4
78	75.741	75.448	-0.294	0.0	0.4
84	75.741	75.449	-0.294	0.0	0.4
90	75.742	75.450	-0.293	0.0	0.5
96	75.743	75.452	-0.292	0.0	0.5
102	75.744	75.454	-0.291	0.0	0.6
108	75.745	75.457	-0.290	0.0	0.7
114	75.746	75.460	-0.289	0.0	0.8
120	75.748	75.463	-0.287	0.0	0.8
126	75.750	75.466	-0.285	0.0	1.0
132	75.752	75.467	-0.283	0.0	1.1
138	75.753	75.468	-0.282	0.0	1.2
144	75.755	75.470	-0.280	0.0	1.3
150	75.757	75.471	-0.278	0.0	1.5
156	75.759	75.472	-0.276	0.0	1.6
162	75.761	75.473	-0.274	0.0	1.7
168	75.762	75.475	-0.273	0.0	1.8
174	75.764	75.475	-0.271	0.0	1.9
180	75.765	75.476	-0.270	0.0	2.0
186	75.765	75.476	-0.270	0.0	2.0
192	75.764	75.476	-0.271	0.0	1.9
198	75.763	75.475	-0.272	0.0	1.9
204	75.761	75.474	-0.274	0.0	1.8
210	75.759	75.473	-0.276	0.0	1.7
216	75.758	75.471	-0.277	0.0	1.6
222	75.756	75.470	-0.279	0.0	1.4
228	75.754	75.469	-0.281	0.0	1.3
234	75.752	75.467	-0.283	0.0	1.2
240	75.750	75.466	-0.285	0.0	1.0
246	75.748	75.464	-0.287	0.0	0.9
252	75.747	75.461	-0.288	0.0	0.8
258	75.745	75.458	-0.290	0.0	0.7
264	75.744	75.455	-0.291	0.0	0.6
270	75.743	75.453	-0.292	0.0	0.5

RPS P&D		Page 27
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 2.001 US/MH 19 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.742	75.451	-0.293	0.0	0.5
282	75.741	75.449	-0.294	0.0	0.4
288	75.741	75.448	-0.294	0.0	0.4
294	75.741	75.447	-0.294	0.0	0.4
300	75.740	75.447	-0.295	0.0	0.4
306	75.740	75.447	-0.295	0.0	0.4
312	75.740	75.447	-0.295	0.0	0.4
318	75.740	75.447	-0.295	0.0	0.4
324	75.740	75.447	-0.295	0.0	0.4
330	75.740	75.446	-0.295	0.0	0.3
336	75.740	75.446	-0.295	0.0	0.3
342	75.739	75.445	-0.296	0.0	0.3
348	75.739	75.443	-0.296	0.0	0.3
354	75.737	75.441	-0.298	0.0	0.2
360	75.736	75.438	-0.299	0.0	0.1
366	75.735	75.435	-0.300	0.0	0.0
372	75.735	75.435	-0.300	0.0	0.0
378	75.735	75.435	-0.300	0.0	0.0
384	75.735	75.435	-0.300	0.0	0.0
390	75.735	75.435	-0.300	0.0	0.0
396	75.735	75.435	-0.300	0.0	0.0
402	75.735	75.435	-0.300	0.0	0.0
408	75.735	75.435	-0.300	0.0	0.0
414	75.735	75.435	-0.300	0.0	0.0
420	75.735	75.435	-0.300	0.0	0.0
426	75.735	75.435	-0.300	0.0	0.0
432	75.735	75.435	-0.300	0.0	0.0
438	75.735	75.435	-0.300	0.0	0.0
444	75.735	75.435	-0.300	0.0	0.0
450	75.735	75.435	-0.300	0.0	0.0
456	75.735	75.435	-0.300	0.0	0.0
462	75.735	75.435	-0.300	0.0	0.0
468	75.735	75.435	-0.300	0.0	0.0
474	75.735	75.435	-0.300	0.0	0.0
480	75.735	75.435	-0.300	0.0	0.0
486	75.735	75.435	-0.300	0.0	0.0
492	75.735	75.435	-0.300	0.0	0.0
498	75.735	75.435	-0.300	0.0	0.0
504	75.735	75.435	-0.300	0.0	0.0
510	75.735	75.435	-0.300	0.0	0.0
516	75.735	75.435	-0.300	0.0	0.0
522	75.735	75.435	-0.300	0.0	0.0
528	75.735	75.435	-0.300	0.0	0.0
534	75.735	75.435	-0.300	0.0	0.0
540	75.735	75.435	-0.300	0.0	0.0

RPS P&D		Page 28
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 2.001 US/MH 19 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	75.735	75.435	-0.300	0.0	0.0
552	75.735	75.435	-0.300	0.0	0.0
558	75.735	75.435	-0.300	0.0	0.0
564	75.735	75.435	-0.300	0.0	0.0
570	75.735	75.435	-0.300	0.0	0.0
576	75.735	75.435	-0.300	0.0	0.0
582	75.735	75.435	-0.300	0.0	0.0
588	75.735	75.435	-0.300	0.0	0.0
594	75.735	75.435	-0.300	0.0	0.0
600	75.735	75.435	-0.300	0.0	0.0
606	75.735	75.435	-0.300	0.0	0.0
612	75.735	75.435	-0.300	0.0	0.0
618	75.735	75.435	-0.300	0.0	0.0
624	75.735	75.435	-0.300	0.0	0.0
630	75.735	75.435	-0.300	0.0	0.0
636	75.735	75.435	-0.300	0.0	0.0
642	75.735	75.435	-0.300	0.0	0.0
648	75.735	75.435	-0.300	0.0	0.0
654	75.735	75.435	-0.300	0.0	0.0
660	75.735	75.435	-0.300	0.0	0.0
666	75.735	75.435	-0.300	0.0	0.0
672	75.735	75.435	-0.300	0.0	0.0
678	75.735	75.435	-0.300	0.0	0.0
684	75.735	75.435	-0.300	0.0	0.0
690	75.735	75.435	-0.300	0.0	0.0
696	75.735	75.435	-0.300	0.0	0.0
702	75.735	75.435	-0.300	0.0	0.0
708	75.735	75.435	-0.300	0.0	0.0
714	75.735	75.435	-0.300	0.0	0.0
720	75.735	75.435	-0.300	0.0	0.0

RPS P&D		Page 29
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 2.002 US/MH 20 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	75.437	75.150	-0.298	0.0	0.1
12	75.440	75.152	-0.295	0.0	0.2
18	75.443	75.154	-0.292	0.0	0.4
24	75.445	75.155	-0.290	0.0	0.5
30	75.446	75.156	-0.289	0.0	0.6
36	75.446	75.156	-0.289	0.0	0.6
42	75.446	75.157	-0.289	0.0	0.6
48	75.447	75.157	-0.288	0.0	0.6
54	75.447	75.157	-0.288	0.0	0.6
60	75.447	75.157	-0.288	0.0	0.6
66	75.447	75.157	-0.288	0.0	0.6
72	75.447	75.157	-0.288	0.0	0.7
78	75.448	75.157	-0.287	0.0	0.7
84	75.449	75.158	-0.286	0.0	0.7
90	75.450	75.159	-0.285	0.0	0.8
96	75.452	75.160	-0.283	0.0	0.9
102	75.454	75.162	-0.281	0.0	1.0
108	75.457	75.163	-0.278	0.0	1.2
114	75.460	75.165	-0.275	0.0	1.3
120	75.463	75.167	-0.272	0.0	1.5
126	75.466	75.170	-0.269	0.0	1.7
132	75.467	75.173	-0.268	0.0	2.0
138	75.468	75.175	-0.267	0.0	2.2
144	75.470	75.178	-0.265	0.0	2.4
150	75.471	75.181	-0.264	0.0	2.7
156	75.472	75.184	-0.263	0.0	2.9
162	75.473	75.186	-0.262	0.0	3.1
168	75.475	75.189	-0.260	0.0	3.3
174	75.475	75.190	-0.260	0.0	3.5
180	75.476	75.192	-0.259	0.0	3.6
186	75.476	75.192	-0.259	0.0	3.6
192	75.476	75.191	-0.259	0.0	3.6
198	75.475	75.189	-0.260	0.0	3.4
204	75.474	75.187	-0.261	0.0	3.3
210	75.473	75.184	-0.262	0.0	3.1
216	75.471	75.182	-0.264	0.0	2.8
222	75.470	75.179	-0.265	0.0	2.6
228	75.469	75.176	-0.266	0.0	2.4
234	75.467	75.174	-0.268	0.0	2.1
240	75.466	75.171	-0.269	0.0	1.9
246	75.464	75.168	-0.271	0.0	1.7
252	75.461	75.166	-0.274	0.0	1.5
258	75.458	75.164	-0.277	0.0	1.3
264	75.455	75.162	-0.280	0.0	1.2
270	75.453	75.161	-0.282	0.0	1.0

RPS P&D		Page 30
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 2.002 US/MH 20 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.451	75.159	-0.284	0.0	0.9
282	75.449	75.158	-0.286	0.0	0.8
288	75.448	75.158	-0.287	0.0	0.7
294	75.447	75.157	-0.288	0.0	0.7
300	75.447	75.157	-0.288	0.0	0.7
306	75.447	75.157	-0.288	0.0	0.6
312	75.447	75.157	-0.288	0.0	0.6
318	75.447	75.157	-0.288	0.0	0.6
324	75.447	75.157	-0.288	0.0	0.6
330	75.446	75.156	-0.289	0.0	0.6
336	75.446	75.156	-0.289	0.0	0.6
342	75.445	75.156	-0.290	0.0	0.6
348	75.443	75.155	-0.292	0.0	0.5
354	75.441	75.153	-0.294	0.0	0.4
360	75.438	75.151	-0.297	0.0	0.2
366	75.435	75.149	-0.300	0.0	0.0
372	75.435	75.149	-0.300	0.0	0.0
378	75.435	75.149	-0.300	0.0	0.0
384	75.435	75.149	-0.300	0.0	0.0
390	75.435	75.149	-0.300	0.0	0.0
396	75.435	75.149	-0.300	0.0	0.0
402	75.435	75.149	-0.300	0.0	0.0
408	75.435	75.149	-0.300	0.0	0.0
414	75.435	75.149	-0.300	0.0	0.0
420	75.435	75.149	-0.300	0.0	0.0
426	75.435	75.149	-0.300	0.0	0.0
432	75.435	75.149	-0.300	0.0	0.0
438	75.435	75.149	-0.300	0.0	0.0
444	75.435	75.149	-0.300	0.0	0.0
450	75.435	75.149	-0.300	0.0	0.0
456	75.435	75.149	-0.300	0.0	0.0
462	75.435	75.149	-0.300	0.0	0.0
468	75.435	75.149	-0.300	0.0	0.0
474	75.435	75.149	-0.300	0.0	0.0
480	75.435	75.149	-0.300	0.0	0.0
486	75.435	75.149	-0.300	0.0	0.0
492	75.435	75.149	-0.300	0.0	0.0
498	75.435	75.149	-0.300	0.0	0.0
504	75.435	75.149	-0.300	0.0	0.0
510	75.435	75.149	-0.300	0.0	0.0
516	75.435	75.149	-0.300	0.0	0.0
522	75.435	75.149	-0.300	0.0	0.0
528	75.435	75.149	-0.300	0.0	0.0
534	75.435	75.149	-0.300	0.0	0.0
540	75.435	75.149	-0.300	0.0	0.0

RPS P&D		Page 31
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 2.002 US/MH 20 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	75.435	75.149	-0.300	0.0	0.0
552	75.435	75.149	-0.300	0.0	0.0
558	75.435	75.149	-0.300	0.0	0.0
564	75.435	75.149	-0.300	0.0	0.0
570	75.435	75.149	-0.300	0.0	0.0
576	75.435	75.149	-0.300	0.0	0.0
582	75.435	75.149	-0.300	0.0	0.0
588	75.435	75.149	-0.300	0.0	0.0
594	75.435	75.149	-0.300	0.0	0.0
600	75.435	75.149	-0.300	0.0	0.0
606	75.435	75.149	-0.300	0.0	0.0
612	75.435	75.149	-0.300	0.0	0.0
618	75.435	75.149	-0.300	0.0	0.0
624	75.435	75.149	-0.300	0.0	0.0
630	75.435	75.149	-0.300	0.0	0.0
636	75.435	75.149	-0.300	0.0	0.0
642	75.435	75.149	-0.300	0.0	0.0
648	75.435	75.149	-0.300	0.0	0.0
654	75.435	75.149	-0.300	0.0	0.0
660	75.435	75.149	-0.300	0.0	0.0
666	75.435	75.149	-0.300	0.0	0.0
672	75.435	75.149	-0.300	0.0	0.0
678	75.435	75.149	-0.300	0.0	0.0
684	75.435	75.149	-0.300	0.0	0.0
690	75.435	75.149	-0.300	0.0	0.0
696	75.435	75.149	-0.300	0.0	0.0
702	75.435	75.149	-0.300	0.0	0.0
708	75.435	75.149	-0.300	0.0	0.0
714	75.435	75.149	-0.300	0.0	0.0
720	75.435	75.149	-0.300	0.0	0.0

RPS P&D		Page 32
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 2.003 US/MH 21 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	75.150	74.953	-0.449	0.0	0.1
12	75.152	74.962	-0.447	0.0	0.3
18	75.154	74.967	-0.445	0.0	0.5
24	75.155	74.973	-0.444	0.0	0.6
30	75.156	74.977	-0.443	0.0	0.7
36	75.156	74.979	-0.443	0.0	0.8
42	75.157	74.980	-0.442	0.0	0.8
48	75.157	74.981	-0.442	0.0	0.8
54	75.157	74.981	-0.442	0.0	0.8
60	75.157	74.981	-0.442	0.0	0.8
66	75.157	74.981	-0.442	0.0	0.8
72	75.157	74.982	-0.442	0.0	0.9
78	75.157	74.983	-0.442	0.0	0.9
84	75.158	74.985	-0.441	0.0	1.0
90	75.159	74.988	-0.440	0.0	1.0
96	75.160	74.991	-0.439	0.0	1.2
102	75.162	74.996	-0.437	0.0	1.3
108	75.163	74.998	-0.436	0.0	1.5
114	75.165	75.001	-0.434	0.0	1.7
120	75.167	75.003	-0.432	0.0	2.0
126	75.170	75.007	-0.429	0.0	2.2
132	75.173	75.010	-0.426	0.0	2.5
138	75.175	75.014	-0.424	0.0	2.8
144	75.178	75.018	-0.421	0.0	3.1
150	75.181	75.022	-0.418	0.0	3.5
156	75.184	75.025	-0.415	0.0	3.8
162	75.186	75.028	-0.413	0.0	4.0
168	75.189	75.032	-0.410	0.0	4.3
174	75.190	75.034	-0.409	0.0	4.5
180	75.192	75.036	-0.407	0.0	4.7
186	75.192	75.036	-0.407	0.0	4.8
192	75.191	75.035	-0.408	0.0	4.7
198	75.189	75.037	-0.410	0.0	4.5
204	75.187	75.038	-0.412	0.0	4.3
210	75.184	75.039	-0.415	0.0	4.0
216	75.182	75.038	-0.417	0.0	3.8
222	75.179	75.038	-0.420	0.0	3.4
228	75.176	75.036	-0.423	0.0	3.1
234	75.174	75.035	-0.425	0.0	2.8
240	75.171	75.032	-0.428	0.0	2.5
246	75.168	75.030	-0.431	0.0	2.2
252	75.166	75.027	-0.433	0.0	2.0
258	75.164	75.024	-0.435	0.0	1.7
264	75.162	75.020	-0.437	0.0	1.5
270	75.161	75.017	-0.438	0.0	1.3

RPS P&D		Page 33
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 2.003 US/MH 21 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.159	75.013	-0.440	0.0	1.2
282	75.158	75.010	-0.441	0.0	1.1
288	75.158	75.007	-0.441	0.0	1.0
294	75.157	75.004	-0.442	0.0	0.9
300	75.157	75.001	-0.442	0.0	0.9
306	75.157	74.999	-0.442	0.0	0.9
312	75.157	74.997	-0.442	0.0	0.8
318	75.157	74.996	-0.442	0.0	0.8
324	75.157	74.995	-0.442	0.0	0.8
330	75.156	74.994	-0.443	0.0	0.8
336	75.156	74.992	-0.443	0.0	0.8
342	75.156	74.990	-0.443	0.0	0.8
348	75.155	74.987	-0.444	0.0	0.7
354	75.153	74.983	-0.446	0.0	0.5
360	75.151	74.978	-0.448	0.0	0.3
366	75.149	74.970	-0.450	0.0	0.1
372	75.149	74.967	-0.450	0.0	0.0
378	75.149	74.964	-0.450	0.0	0.0
384	75.149	74.961	-0.450	0.0	0.0
390	75.149	74.959	-0.450	0.0	0.0
396	75.149	74.957	-0.450	0.0	0.0
402	75.149	74.955	-0.450	0.0	0.0
408	75.149	74.953	-0.450	0.0	0.0
414	75.149	74.951	-0.450	0.0	0.0
420	75.149	74.950	-0.450	0.0	0.0
426	75.149	74.949	-0.450	0.0	0.0
432	75.149	74.949	-0.450	0.0	0.0
438	75.149	74.949	-0.450	0.0	0.0
444	75.149	74.949	-0.450	0.0	0.0
450	75.149	74.949	-0.450	0.0	0.0
456	75.149	74.949	-0.450	0.0	0.0
462	75.149	74.949	-0.450	0.0	0.0
468	75.149	74.949	-0.450	0.0	0.0
474	75.149	74.949	-0.450	0.0	0.0
480	75.149	74.949	-0.450	0.0	0.0
486	75.149	74.949	-0.450	0.0	0.0
492	75.149	74.949	-0.450	0.0	0.0
498	75.149	74.949	-0.450	0.0	0.0
504	75.149	74.949	-0.450	0.0	0.0
510	75.149	74.949	-0.450	0.0	0.0
516	75.149	74.949	-0.450	0.0	0.0
522	75.149	74.949	-0.450	0.0	0.0
528	75.149	74.949	-0.450	0.0	0.0
534	75.149	74.949	-0.450	0.0	0.0
540	75.149	74.949	-0.450	0.0	0.0

RPS P&D		Page 34
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 2.003 US/MH 21 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	75.149	74.949	-0.450	0.0	0.0
552	75.149	74.949	-0.450	0.0	0.0
558	75.149	74.949	-0.450	0.0	0.0
564	75.149	74.949	-0.450	0.0	0.0
570	75.149	74.949	-0.450	0.0	0.0
576	75.149	74.949	-0.450	0.0	0.0
582	75.149	74.949	-0.450	0.0	0.0
588	75.149	74.949	-0.450	0.0	0.0
594	75.149	74.949	-0.450	0.0	0.0
600	75.149	74.949	-0.450	0.0	0.0
606	75.149	74.949	-0.450	0.0	0.0
612	75.149	74.949	-0.450	0.0	0.0
618	75.149	74.949	-0.450	0.0	0.0
624	75.149	74.949	-0.450	0.0	0.0
630	75.149	74.949	-0.450	0.0	0.0
636	75.149	74.949	-0.450	0.0	0.0
642	75.149	74.949	-0.450	0.0	0.0
648	75.149	74.949	-0.450	0.0	0.0
654	75.149	74.949	-0.450	0.0	0.0
660	75.149	74.949	-0.450	0.0	0.0
666	75.149	74.949	-0.450	0.0	0.0
672	75.149	74.949	-0.450	0.0	0.0
678	75.149	74.949	-0.450	0.0	0.0
684	75.149	74.949	-0.450	0.0	0.0
690	75.149	74.949	-0.450	0.0	0.0
696	75.149	74.949	-0.450	0.0	0.0
702	75.149	74.949	-0.450	0.0	0.0
708	75.149	74.949	-0.450	0.0	0.0
714	75.149	74.949	-0.450	0.0	0.0
720	75.149	74.949	-0.450	0.0	0.0

RPS P&D		Page 35
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.005 US/MH 6 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.953	74.929	-0.446	0.0	0.1
12	74.962	74.930	-0.437	0.0	0.4
18	74.967	74.930	-0.432	0.0	0.8
24	74.973	74.932	-0.426	0.0	1.1
30	74.977	74.933	-0.422	0.0	1.4
36	74.979	74.935	-0.420	0.0	1.5
42	74.980	74.937	-0.419	0.0	1.6
48	74.981	74.938	-0.418	0.0	1.6
54	74.981	74.939	-0.418	0.0	1.6
60	74.981	74.941	-0.418	0.0	1.6
66	74.981	74.942	-0.418	0.0	1.6
72	74.982	74.943	-0.417	0.0	1.6
78	74.983	74.944	-0.416	0.0	1.7
84	74.985	74.945	-0.414	0.0	1.8
90	74.988	74.947	-0.411	0.0	1.9
96	74.991	74.948	-0.408	0.0	2.1
102	74.996	74.950	-0.403	0.0	2.4
108	74.998	74.952	-0.401	0.0	2.8
114	75.001	74.954	-0.398	0.0	3.2
120	75.003	74.957	-0.396	0.0	3.6
126	75.007	74.960	-0.392	0.0	4.1
132	75.010	74.964	-0.389	0.0	4.7
138	75.014	74.968	-0.385	0.0	5.3
144	75.018	74.972	-0.381	0.0	5.9
150	75.022	74.977	-0.377	0.0	6.5
156	75.025	74.982	-0.374	0.0	7.1
162	75.028	74.987	-0.371	0.0	7.6
168	75.032	74.992	-0.367	0.0	8.2
174	75.034	74.998	-0.365	0.0	8.6
180	75.036	75.003	-0.363	0.0	9.0
186	75.036	75.008	-0.363	0.0	9.1
192	75.035	75.013	-0.364	0.0	9.1
198	75.037	75.019	-0.362	0.0	8.7
204	75.038	75.023	-0.361	0.0	8.2
210	75.039	75.025	-0.360	0.0	7.7
216	75.038	75.027	-0.361	0.0	7.2
222	75.038	75.028	-0.361	0.0	6.6
228	75.036	75.028	-0.363	0.0	6.0
234	75.035	75.027	-0.364	0.0	5.5
240	75.032	75.026	-0.367	0.0	4.9
246	75.030	75.024	-0.369	0.0	4.3
252	75.027	75.022	-0.372	0.0	3.9
258	75.024	75.019	-0.375	0.0	3.4
264	75.020	75.016	-0.379	0.0	3.0
270	75.017	75.013	-0.382	0.0	2.6

RPS P&D		Page 36
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.005 US/MH 6 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.013	75.010	-0.386	0.0	2.3
282	75.010	75.006	-0.389	0.0	2.1
288	75.007	75.003	-0.392	0.0	1.9
294	75.004	75.000	-0.395	0.0	1.8
300	75.001	74.996	-0.398	0.0	1.7
306	74.999	74.993	-0.400	0.0	1.7
312	74.997	74.990	-0.402	0.0	1.6
318	74.996	74.987	-0.403	0.0	1.6
324	74.995	74.985	-0.404	0.0	1.6
330	74.994	74.983	-0.405	0.0	1.6
336	74.992	74.981	-0.407	0.0	1.6
342	74.990	74.979	-0.409	0.0	1.5
348	74.987	74.977	-0.412	0.0	1.4
354	74.983	74.975	-0.416	0.0	1.2
360	74.978	74.973	-0.421	0.0	0.8
366	74.970	74.969	-0.429	0.0	0.3
372	74.967	74.966	-0.432	0.0	0.0
378	74.964	74.964	-0.435	0.0	0.0
384	74.961	74.961	-0.438	0.0	0.0
390	74.959	74.959	-0.440	0.0	0.0
396	74.957	74.957	-0.442	0.0	0.0
402	74.955	74.955	-0.444	0.0	0.0
408	74.953	74.953	-0.446	0.0	0.0
414	74.951	74.951	-0.448	0.0	0.0
420	74.950	74.949	-0.449	0.0	0.0
426	74.949	74.948	-0.450	0.0	0.0
432	74.949	74.947	-0.450	0.0	0.0
438	74.949	74.946	-0.450	0.0	0.0
444	74.949	74.945	-0.450	0.0	0.0
450	74.949	74.943	-0.450	0.0	0.0
456	74.949	74.942	-0.450	0.0	0.0
462	74.949	74.941	-0.450	0.0	0.0
468	74.949	74.941	-0.450	0.0	0.0
474	74.949	74.940	-0.450	0.0	0.0
480	74.949	74.939	-0.450	0.0	0.0
486	74.949	74.938	-0.450	0.0	0.0
492	74.949	74.938	-0.450	0.0	0.0
498	74.949	74.937	-0.450	0.0	0.0
504	74.949	74.936	-0.450	0.0	0.0
510	74.949	74.936	-0.450	0.0	0.0
516	74.949	74.935	-0.450	0.0	0.0
522	74.949	74.935	-0.450	0.0	0.0
528	74.949	74.934	-0.450	0.0	0.0
534	74.949	74.934	-0.450	0.0	0.0
540	74.949	74.934	-0.450	0.0	0.0

RPS P&D		Page 37
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.005 US/MH 6 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.949	74.933	-0.450	0.0	0.0
552	74.949	74.933	-0.450	0.0	0.0
558	74.949	74.932	-0.450	0.0	0.0
564	74.949	74.932	-0.450	0.0	0.0
570	74.949	74.932	-0.450	0.0	0.0
576	74.949	74.932	-0.450	0.0	0.0
582	74.949	74.931	-0.450	0.0	0.0
588	74.949	74.931	-0.450	0.0	0.0
594	74.949	74.931	-0.450	0.0	0.0
600	74.949	74.931	-0.450	0.0	0.0
606	74.949	74.931	-0.450	0.0	0.0
612	74.949	74.931	-0.450	0.0	0.0
618	74.949	74.930	-0.450	0.0	0.0
624	74.949	74.930	-0.450	0.0	0.0
630	74.949	74.930	-0.450	0.0	0.0
636	74.949	74.930	-0.450	0.0	0.0
642	74.949	74.930	-0.450	0.0	0.0
648	74.949	74.930	-0.450	0.0	0.0
654	74.949	74.930	-0.450	0.0	0.0
660	74.949	74.930	-0.450	0.0	0.0
666	74.949	74.930	-0.450	0.0	0.0
672	74.949	74.930	-0.450	0.0	0.0
678	74.949	74.930	-0.450	0.0	0.0
684	74.949	74.929	-0.450	0.0	0.0
690	74.949	74.929	-0.450	0.0	0.0
696	74.949	74.929	-0.450	0.0	0.0
702	74.949	74.929	-0.450	0.0	0.0
708	74.949	74.929	-0.450	0.0	0.0
714	74.949	74.929	-0.450	0.0	0.0
720	74.949	74.929	-0.450	0.0	0.0

RPS P&D		Page 38
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.006 US/MH 8 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.929	74.914	-0.450	0.0	0.0
12	74.930	74.915	-0.449	0.0	0.0
18	74.930	74.917	-0.449	0.0	0.1
24	74.932	74.921	-0.447	0.0	0.1
30	74.933	74.926	-0.446	0.0	0.2
36	74.935	74.930	-0.444	0.0	0.2
42	74.937	74.932	-0.442	0.0	0.2
48	74.938	74.933	-0.441	0.0	0.2
54	74.939	74.935	-0.440	0.0	0.3
60	74.941	74.937	-0.438	0.0	0.3
66	74.942	74.938	-0.437	0.0	0.3
72	74.943	74.940	-0.436	0.0	0.4
78	74.944	74.941	-0.435	0.0	0.4
84	74.945	74.942	-0.434	0.0	0.4
90	74.947	74.943	-0.432	0.0	0.5
96	74.948	74.945	-0.431	0.0	0.5
102	74.950	74.947	-0.429	0.0	0.6
108	74.952	74.949	-0.427	0.0	0.6
114	74.954	74.951	-0.425	0.0	0.7
120	74.957	74.953	-0.422	0.0	0.8
126	74.960	74.956	-0.419	0.0	0.9
132	74.964	74.959	-0.415	0.0	1.0
138	74.968	74.963	-0.411	0.0	1.1
144	74.972	74.967	-0.407	0.0	1.3
150	74.977	74.972	-0.402	0.0	1.5
156	74.982	74.978	-0.397	0.0	1.8
162	74.987	74.984	-0.392	0.0	2.0
168	74.992	74.990	-0.387	0.0	2.2
174	74.998	74.996	-0.381	0.0	2.4
180	75.003	75.001	-0.376	0.0	2.5
186	75.008	75.007	-0.371	0.0	2.7
192	75.013	75.015	-0.366	0.0	2.5
198	75.019	75.023	-0.360	0.0	2.9
204	75.023	75.019	-0.356	0.0	2.8
210	75.025	75.022	-0.354	0.0	2.9
216	75.027	75.023	-0.352	0.0	2.9
222	75.028	75.025	-0.351	0.0	3.0
228	75.028	75.029	-0.351	0.0	2.9
234	75.027	75.027	-0.352	0.0	2.8
240	75.026	75.024	-0.353	0.0	2.8
246	75.024	75.021	-0.355	0.0	2.8
252	75.022	75.019	-0.357	0.0	2.8
258	75.019	75.016	-0.360	0.0	2.7
264	75.016	75.014	-0.363	0.0	2.7
270	75.013	75.010	-0.366	0.0	2.6

RPS P&D		Page 39
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.006 US/MH 8 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.010	75.008	-0.369	0.0	2.5
282	75.006	75.005	-0.373	0.0	2.4
288	75.003	75.001	-0.376	0.0	2.3
294	75.000	74.998	-0.379	0.0	2.3
300	74.996	74.991	-0.383	0.0	2.4
306	74.993	74.989	-0.386	0.0	1.7
312	74.990	74.988	-0.389	0.0	1.9
318	74.987	74.985	-0.392	0.0	1.8
324	74.985	74.983	-0.394	0.0	1.8
330	74.983	74.981	-0.396	0.0	1.7
336	74.981	74.979	-0.398	0.0	1.6
342	74.979	74.977	-0.400	0.0	1.5
348	74.977	74.975	-0.402	0.0	1.4
354	74.975	74.972	-0.404	0.0	1.4
360	74.973	74.969	-0.406	0.0	1.2
366	74.969	74.966	-0.410	0.0	1.1
372	74.966	74.963	-0.413	0.0	1.0
378	74.964	74.961	-0.415	0.0	0.9
384	74.961	74.958	-0.418	0.0	0.8
390	74.959	74.956	-0.420	0.0	0.8
396	74.957	74.954	-0.422	0.0	0.7
402	74.955	74.952	-0.424	0.0	0.6
408	74.953	74.950	-0.426	0.0	0.6
414	74.951	74.949	-0.428	0.0	0.5
420	74.949	74.947	-0.430	0.0	0.5
426	74.948	74.946	-0.431	0.0	0.5
432	74.947	74.945	-0.432	0.0	0.4
438	74.946	74.943	-0.433	0.0	0.4
444	74.945	74.942	-0.434	0.0	0.4
450	74.943	74.941	-0.436	0.0	0.3
456	74.942	74.940	-0.437	0.0	0.3
462	74.941	74.939	-0.438	0.0	0.3
468	74.941	74.938	-0.438	0.0	0.3
474	74.940	74.937	-0.439	0.0	0.2
480	74.939	74.936	-0.440	0.0	0.2
486	74.938	74.936	-0.441	0.0	0.2
492	74.938	74.935	-0.441	0.0	0.2
498	74.937	74.934	-0.442	0.0	0.2
504	74.936	74.934	-0.443	0.0	0.2
510	74.936	74.933	-0.443	0.0	0.2
516	74.935	74.932	-0.444	0.0	0.2
522	74.935	74.932	-0.444	0.0	0.1
528	74.934	74.931	-0.445	0.0	0.1
534	74.934	74.931	-0.445	0.0	0.1
540	74.934	74.930	-0.445	0.0	0.1

RPS P&D		Page 40
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.006 US/MH 8 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.933	74.930	-0.446	0.0	0.1
552	74.933	74.929	-0.446	0.0	0.1
558	74.932	74.929	-0.447	0.0	0.1
564	74.932	74.928	-0.447	0.0	0.1
570	74.932	74.928	-0.447	0.0	0.1
576	74.932	74.927	-0.447	0.0	0.1
582	74.931	74.927	-0.448	0.0	0.1
588	74.931	74.926	-0.448	0.0	0.1
594	74.931	74.926	-0.448	0.0	0.1
600	74.931	74.926	-0.448	0.0	0.1
606	74.931	74.925	-0.448	0.0	0.1
612	74.931	74.925	-0.448	0.0	0.1
618	74.930	74.925	-0.449	0.0	0.1
624	74.930	74.924	-0.449	0.0	0.0
630	74.930	74.924	-0.449	0.0	0.0
636	74.930	74.923	-0.449	0.0	0.0
642	74.930	74.923	-0.449	0.0	0.0
648	74.930	74.923	-0.449	0.0	0.0
654	74.930	74.922	-0.449	0.0	0.0
660	74.930	74.922	-0.449	0.0	0.0
666	74.930	74.922	-0.449	0.0	0.0
672	74.930	74.922	-0.449	0.0	0.0
678	74.930	74.921	-0.449	0.0	0.0
684	74.929	74.921	-0.450	0.0	0.0
690	74.929	74.921	-0.450	0.0	0.0
696	74.929	74.920	-0.450	0.0	0.0
702	74.929	74.920	-0.450	0.0	0.0
708	74.929	74.920	-0.450	0.0	0.0
714	74.929	74.920	-0.450	0.0	0.0
720	74.929	74.919	-0.450	0.0	0.0

RPS P&D		Page 41
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.007 US/MH 9 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.914	74.715	-0.450	0.0	0.0
12	74.915	74.716	-0.449	0.0	0.0
18	74.917	74.717	-0.447	0.0	0.0
24	74.921	74.717	-0.443	0.0	0.0
30	74.926	74.718	-0.438	0.0	0.1
36	74.930	74.719	-0.434	0.0	0.1
42	74.932	74.720	-0.432	0.0	0.2
48	74.933	74.720	-0.431	0.0	0.2
54	74.935	74.720	-0.429	0.0	0.2
60	74.937	74.721	-0.427	0.0	0.3
66	74.938	74.721	-0.426	0.0	0.3
72	74.940	74.722	-0.424	0.0	0.3
78	74.941	74.722	-0.423	0.0	0.4
84	74.942	74.723	-0.422	0.0	0.4
90	74.943	74.724	-0.421	0.0	0.4
96	74.945	74.725	-0.419	0.0	0.4
102	74.947	74.726	-0.417	0.0	0.5
108	74.949	74.728	-0.415	0.0	0.5
114	74.951	74.730	-0.413	0.0	0.6
120	74.953	74.732	-0.411	0.0	0.7
126	74.956	74.734	-0.408	0.0	0.8
132	74.959	74.737	-0.405	0.0	0.9
138	74.963	74.740	-0.401	0.0	1.0
144	74.967	74.743	-0.397	0.0	1.2
150	74.972	74.747	-0.392	0.0	1.3
156	74.978	74.751	-0.386	0.0	1.6
162	74.984	74.755	-0.380	0.0	1.8
168	74.990	74.758	-0.374	0.0	2.0
174	74.996	74.760	-0.368	0.0	2.2
180	75.001	74.761	-0.363	0.0	2.3
186	75.007	74.761	-0.357	0.0	2.5
192	75.015	74.762	-0.349	0.0	2.7
198	75.023	74.762	-0.341	0.0	2.8
204	75.019	74.762	-0.345	0.0	2.9
210	75.022	74.762	-0.342	0.0	2.9
216	75.023	74.761	-0.341	0.0	2.9
222	75.025	74.761	-0.339	0.0	2.9
228	75.029	74.760	-0.335	0.0	2.9
234	75.027	74.760	-0.337	0.0	2.9
240	75.024	74.759	-0.340	0.0	2.9
246	75.021	74.759	-0.343	0.0	2.9
252	75.019	74.758	-0.345	0.0	2.9
258	75.016	74.756	-0.348	0.0	2.9
264	75.014	74.754	-0.350	0.0	2.8
270	75.010	74.753	-0.354	0.0	2.7

RPS P&D		Page 42
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.007 US/MH 9 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.008	74.751	-0.356	0.0	2.7
282	75.005	74.749	-0.359	0.0	2.6
288	75.001	74.748	-0.363	0.0	2.5
294	74.998	74.747	-0.366	0.0	2.4
300	74.991	74.745	-0.373	0.0	2.2
306	74.989	74.743	-0.375	0.0	2.2
312	74.988	74.742	-0.376	0.0	2.0
318	74.985	74.741	-0.379	0.0	1.9
324	74.983	74.740	-0.381	0.0	1.8
330	74.981	74.739	-0.383	0.0	1.8
336	74.979	74.738	-0.385	0.0	1.7
342	74.977	74.736	-0.387	0.0	1.6
348	74.975	74.735	-0.389	0.0	1.5
354	74.972	74.733	-0.392	0.0	1.4
360	74.969	74.731	-0.395	0.0	1.3
366	74.966	74.729	-0.398	0.0	1.2
372	74.963	74.727	-0.401	0.0	1.1
378	74.961	74.726	-0.403	0.0	1.0
384	74.958	74.725	-0.406	0.0	0.9
390	74.956	74.724	-0.408	0.0	0.8
396	74.954	74.723	-0.410	0.0	0.8
402	74.952	74.722	-0.412	0.0	0.7
408	74.950	74.722	-0.414	0.0	0.6
414	74.949	74.721	-0.415	0.0	0.6
420	74.947	74.720	-0.417	0.0	0.5
426	74.946	74.720	-0.418	0.0	0.5
432	74.945	74.720	-0.419	0.0	0.5
438	74.943	74.719	-0.421	0.0	0.4
444	74.942	74.719	-0.422	0.0	0.4
450	74.941	74.719	-0.423	0.0	0.4
456	74.940	74.718	-0.424	0.0	0.3
462	74.939	74.718	-0.425	0.0	0.3
468	74.938	74.718	-0.426	0.0	0.3
474	74.937	74.717	-0.427	0.0	0.3
480	74.936	74.717	-0.428	0.0	0.3
486	74.936	74.717	-0.428	0.0	0.2
492	74.935	74.717	-0.429	0.0	0.2
498	74.934	74.717	-0.430	0.0	0.2
504	74.934	74.716	-0.430	0.0	0.2
510	74.933	74.716	-0.431	0.0	0.2
516	74.932	74.716	-0.432	0.0	0.2
522	74.932	74.716	-0.432	0.0	0.2
528	74.931	74.716	-0.433	0.0	0.2
534	74.931	74.716	-0.433	0.0	0.1
540	74.930	74.716	-0.434	0.0	0.1

RPS P&D		Page 43
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.007 US/MH 9 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.930	74.716	-0.434	0.0	0.1
552	74.929	74.715	-0.435	0.0	0.1
558	74.929	74.715	-0.435	0.0	0.1
564	74.928	74.715	-0.436	0.0	0.1
570	74.928	74.715	-0.436	0.0	0.1
576	74.927	74.715	-0.437	0.0	0.1
582	74.927	74.715	-0.437	0.0	0.1
588	74.926	74.715	-0.438	0.0	0.1
594	74.926	74.715	-0.438	0.0	0.1
600	74.926	74.715	-0.438	0.0	0.1
606	74.925	74.715	-0.439	0.0	0.1
612	74.925	74.715	-0.439	0.0	0.1
618	74.925	74.715	-0.439	0.0	0.1
624	74.924	74.715	-0.440	0.0	0.1
630	74.924	74.715	-0.440	0.0	0.1
636	74.923	74.715	-0.441	0.0	0.0
642	74.923	74.715	-0.441	0.0	0.0
648	74.923	74.715	-0.441	0.0	0.0
654	74.922	74.714	-0.442	0.0	0.0
660	74.922	74.714	-0.442	0.0	0.0
666	74.922	74.714	-0.442	0.0	0.0
672	74.922	74.714	-0.442	0.0	0.0
678	74.921	74.714	-0.443	0.0	0.0
684	74.921	74.714	-0.443	0.0	0.0
690	74.921	74.714	-0.443	0.0	0.0
696	74.920	74.714	-0.444	0.0	0.0
702	74.920	74.714	-0.444	0.0	0.0
708	74.920	74.714	-0.444	0.0	0.0
714	74.920	74.714	-0.444	0.0	0.0
720	74.919	74.714	-0.445	0.0	0.0

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Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.008 US/MH 10 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.715	74.615	-0.449	0.0	0.0
12	74.716	74.618	-0.448	0.0	0.1
18	74.717	74.620	-0.447	0.0	0.2
24	74.717	74.622	-0.447	0.0	0.3
30	74.718	74.623	-0.446	0.0	0.3
36	74.719	74.624	-0.445	0.0	0.4
42	74.720	74.625	-0.444	0.0	0.5
48	74.720	74.625	-0.444	0.0	0.5
54	74.720	74.626	-0.444	0.0	0.5
60	74.721	74.626	-0.443	0.0	0.6
66	74.721	74.627	-0.443	0.0	0.6
72	74.722	74.627	-0.442	0.0	0.6
78	74.722	74.628	-0.442	0.0	0.7
84	74.723	74.629	-0.441	0.0	0.7
90	74.724	74.631	-0.440	0.0	0.8
96	74.725	74.632	-0.439	0.0	0.9
102	74.726	74.635	-0.438	0.0	1.0
108	74.728	74.638	-0.436	0.0	1.1
114	74.730	74.641	-0.434	0.0	1.3
120	74.732	74.644	-0.432	0.0	1.4
126	74.734	74.648	-0.430	0.0	1.6
132	74.737	74.653	-0.427	0.0	1.8
138	74.740	74.658	-0.424	0.0	2.1
144	74.743	74.660	-0.421	0.0	2.3
150	74.747	74.662	-0.417	0.0	2.6
156	74.751	74.664	-0.413	0.0	2.9
162	74.755	74.665	-0.409	0.0	3.3
168	74.758	74.667	-0.406	0.0	3.6
174	74.760	74.668	-0.404	0.0	3.9
180	74.761	74.669	-0.403	0.0	4.1
186	74.761	74.670	-0.403	0.0	4.3
192	74.762	74.670	-0.402	0.0	4.4
198	74.762	74.670	-0.402	0.0	4.5
204	74.762	74.669	-0.402	0.0	4.5
210	74.762	74.668	-0.402	0.0	4.4
216	74.761	74.667	-0.403	0.0	4.3
222	74.761	74.666	-0.403	0.0	4.2
228	74.760	74.665	-0.404	0.0	4.1
234	74.760	74.664	-0.404	0.0	4.0
240	74.759	74.663	-0.405	0.0	3.8
246	74.759	74.662	-0.405	0.0	3.7
252	74.758	74.661	-0.406	0.0	3.6
258	74.756	74.660	-0.408	0.0	3.5
264	74.754	74.659	-0.410	0.0	3.4
270	74.753	74.657	-0.411	0.0	3.3

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.008 US/MH 10 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.751	74.654	-0.413	0.0	3.1
282	74.749	74.652	-0.415	0.0	3.0
288	74.748	74.650	-0.416	0.0	2.9
294	74.747	74.649	-0.417	0.0	2.7
300	74.745	74.647	-0.419	0.0	2.6
306	74.743	74.645	-0.421	0.0	2.5
312	74.742	74.644	-0.422	0.0	2.4
318	74.741	74.643	-0.423	0.0	2.3
324	74.740	74.643	-0.424	0.0	2.2
330	74.739	74.642	-0.425	0.0	2.1
336	74.738	74.641	-0.426	0.0	2.0
342	74.736	74.639	-0.428	0.0	1.9
348	74.735	74.637	-0.429	0.0	1.8
354	74.733	74.634	-0.431	0.0	1.6
360	74.731	74.630	-0.433	0.0	1.5
366	74.729	74.627	-0.435	0.0	1.3
372	74.727	74.625	-0.437	0.0	1.1
378	74.726	74.624	-0.438	0.0	1.0
384	74.725	74.624	-0.439	0.0	0.9
390	74.724	74.623	-0.440	0.0	0.9
396	74.723	74.622	-0.441	0.0	0.8
402	74.722	74.621	-0.442	0.0	0.7
408	74.722	74.621	-0.442	0.0	0.7
414	74.721	74.620	-0.443	0.0	0.6
420	74.720	74.620	-0.444	0.0	0.6
426	74.720	74.619	-0.444	0.0	0.5
432	74.720	74.619	-0.444	0.0	0.5
438	74.719	74.619	-0.445	0.0	0.5
444	74.719	74.618	-0.445	0.0	0.4
450	74.719	74.618	-0.445	0.0	0.4
456	74.718	74.618	-0.446	0.0	0.4
462	74.718	74.617	-0.446	0.0	0.3
468	74.718	74.617	-0.446	0.0	0.3
474	74.717	74.617	-0.447	0.0	0.3
480	74.717	74.617	-0.447	0.0	0.3
486	74.717	74.617	-0.447	0.0	0.3
492	74.717	74.616	-0.447	0.0	0.2
498	74.717	74.616	-0.447	0.0	0.2
504	74.716	74.616	-0.448	0.0	0.2
510	74.716	74.616	-0.448	0.0	0.2
516	74.716	74.616	-0.448	0.0	0.2
522	74.716	74.616	-0.448	0.0	0.2
528	74.716	74.616	-0.448	0.0	0.2
534	74.716	74.616	-0.448	0.0	0.2
540	74.716	74.615	-0.448	0.0	0.1

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
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Flows and Levels for Pipe 1.008 US/MH 10 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.716	74.615	-0.448	0.0	0.1
552	74.715	74.615	-0.449	0.0	0.1
558	74.715	74.615	-0.449	0.0	0.1
564	74.715	74.615	-0.449	0.0	0.1
570	74.715	74.615	-0.449	0.0	0.1
576	74.715	74.615	-0.449	0.0	0.1
582	74.715	74.615	-0.449	0.0	0.1
588	74.715	74.615	-0.449	0.0	0.1
594	74.715	74.615	-0.449	0.0	0.1
600	74.715	74.615	-0.449	0.0	0.1
606	74.715	74.615	-0.449	0.0	0.1
612	74.715	74.615	-0.449	0.0	0.1
618	74.715	74.615	-0.449	0.0	0.1
624	74.715	74.615	-0.449	0.0	0.1
630	74.715	74.615	-0.449	0.0	0.1
636	74.715	74.615	-0.449	0.0	0.1
642	74.715	74.614	-0.449	0.0	0.0
648	74.715	74.614	-0.449	0.0	0.0
654	74.714	74.614	-0.450	0.0	0.0
660	74.714	74.614	-0.450	0.0	0.0
666	74.714	74.614	-0.450	0.0	0.0
672	74.714	74.614	-0.450	0.0	0.0
678	74.714	74.614	-0.450	0.0	0.0
684	74.714	74.614	-0.450	0.0	0.0
690	74.714	74.614	-0.450	0.0	0.0
696	74.714	74.614	-0.450	0.0	0.0
702	74.714	74.614	-0.450	0.0	0.0
708	74.714	74.614	-0.450	0.0	0.0
714	74.714	74.614	-0.450	0.0	0.0
720	74.714	74.614	-0.450	0.0	0.0

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.009 US/MH 11 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.615	74.198	-0.449	0.0	0.1
12	74.618	74.204	-0.446	0.0	0.3
18	74.620	74.210	-0.444	0.0	0.6
24	74.622	74.213	-0.442	0.0	0.7
30	74.623	74.216	-0.441	0.0	0.9
36	74.624	74.218	-0.440	0.0	1.0
42	74.625	74.219	-0.439	0.0	1.1
48	74.625	74.220	-0.439	0.0	1.1
54	74.626	74.220	-0.438	0.0	1.1
60	74.626	74.221	-0.438	0.0	1.2
66	74.627	74.222	-0.437	0.0	1.2
72	74.627	74.223	-0.437	0.0	1.3
78	74.628	74.224	-0.436	0.0	1.4
84	74.629	74.227	-0.435	0.0	1.5
90	74.631	74.229	-0.433	0.0	1.6
96	74.632	74.233	-0.432	0.0	1.8
102	74.635	74.240	-0.429	0.0	2.0
108	74.638	74.242	-0.426	0.0	2.2
114	74.641	74.244	-0.423	0.0	2.6
120	74.644	74.246	-0.420	0.0	2.9
126	74.648	74.249	-0.416	0.0	3.3
132	74.653	74.252	-0.411	0.0	3.7
138	74.658	74.255	-0.406	0.0	4.1
144	74.660	74.258	-0.404	0.0	4.7
150	74.662	74.262	-0.402	0.0	5.2
156	74.664	74.265	-0.400	0.0	5.7
162	74.665	74.269	-0.399	0.0	6.3
168	74.667	74.272	-0.397	0.0	6.8
174	74.668	74.275	-0.396	0.0	7.2
180	74.669	74.277	-0.395	0.0	7.6
186	74.670	74.278	-0.394	0.0	7.8
192	74.670	74.277	-0.394	0.0	7.9
198	74.670	74.277	-0.394	0.0	7.8
204	74.669	74.275	-0.395	0.0	7.7
210	74.668	74.273	-0.396	0.0	7.4
216	74.667	74.271	-0.397	0.0	7.1
222	74.666	74.268	-0.398	0.0	6.7
228	74.665	74.265	-0.399	0.0	6.4
234	74.664	74.263	-0.400	0.0	6.1
240	74.663	74.260	-0.401	0.0	5.7
246	74.662	74.258	-0.402	0.0	5.4
252	74.661	74.257	-0.403	0.0	5.1
258	74.660	74.255	-0.404	0.0	4.8
264	74.659	74.253	-0.405	0.0	4.5
270	74.657	74.252	-0.407	0.0	4.3

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.009 US/MH 11 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.654	74.251	-0.410	0.0	4.0
282	74.652	74.249	-0.412	0.0	3.8
288	74.650	74.248	-0.414	0.0	3.6
294	74.649	74.248	-0.415	0.0	3.5
300	74.647	74.247	-0.417	0.0	3.3
306	74.645	74.246	-0.419	0.0	3.2
312	74.644	74.246	-0.420	0.0	3.0
318	74.643	74.245	-0.421	0.0	2.9
324	74.643	74.245	-0.421	0.0	2.9
330	74.642	74.245	-0.422	0.0	2.8
336	74.641	74.244	-0.423	0.0	2.7
342	74.639	74.243	-0.425	0.0	2.5
348	74.637	74.242	-0.427	0.0	2.3
354	74.634	74.239	-0.430	0.0	2.0
360	74.630	74.233	-0.434	0.0	1.7
366	74.627	74.225	-0.437	0.0	1.3
372	74.625	74.223	-0.439	0.0	1.2
378	74.624	74.220	-0.440	0.0	1.1
384	74.624	74.218	-0.440	0.0	1.0
390	74.623	74.216	-0.441	0.0	0.9
396	74.622	74.214	-0.442	0.0	0.8
402	74.621	74.213	-0.443	0.0	0.7
408	74.621	74.211	-0.443	0.0	0.7
414	74.620	74.210	-0.444	0.0	0.6
420	74.620	74.208	-0.444	0.0	0.6
426	74.619	74.207	-0.445	0.0	0.5
432	74.619	74.206	-0.445	0.0	0.5
438	74.619	74.206	-0.445	0.0	0.5
444	74.618	74.205	-0.446	0.0	0.4
450	74.618	74.204	-0.446	0.0	0.4
456	74.618	74.203	-0.446	0.0	0.4
462	74.617	74.202	-0.447	0.0	0.3
468	74.617	74.201	-0.447	0.0	0.3
474	74.617	74.201	-0.447	0.0	0.3
480	74.617	74.200	-0.447	0.0	0.3
486	74.617	74.200	-0.447	0.0	0.3
492	74.616	74.199	-0.448	0.0	0.2
498	74.616	74.199	-0.448	0.0	0.2
504	74.616	74.199	-0.448	0.0	0.2
510	74.616	74.198	-0.448	0.0	0.2
516	74.616	74.198	-0.448	0.0	0.2
522	74.616	74.198	-0.448	0.0	0.2
528	74.616	74.198	-0.448	0.0	0.2
534	74.616	74.198	-0.448	0.0	0.2
540	74.615	74.197	-0.449	0.0	0.1

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
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Flows and Levels for Pipe 1.009 US/MH 11 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.615	74.197	-0.449	0.0	0.1
552	74.615	74.197	-0.449	0.0	0.1
558	74.615	74.197	-0.449	0.0	0.1
564	74.615	74.197	-0.449	0.0	0.1
570	74.615	74.197	-0.449	0.0	0.1
576	74.615	74.197	-0.449	0.0	0.1
582	74.615	74.196	-0.449	0.0	0.1
588	74.615	74.196	-0.449	0.0	0.1
594	74.615	74.196	-0.449	0.0	0.1
600	74.615	74.196	-0.449	0.0	0.1
606	74.615	74.196	-0.449	0.0	0.1
612	74.615	74.196	-0.449	0.0	0.1
618	74.615	74.196	-0.449	0.0	0.1
624	74.615	74.196	-0.449	0.0	0.1
630	74.615	74.196	-0.449	0.0	0.1
636	74.615	74.196	-0.449	0.0	0.1
642	74.614	74.196	-0.450	0.0	0.0
648	74.614	74.196	-0.450	0.0	0.0
654	74.614	74.196	-0.450	0.0	0.0
660	74.614	74.196	-0.450	0.0	0.0
666	74.614	74.196	-0.450	0.0	0.0
672	74.614	74.196	-0.450	0.0	0.0
678	74.614	74.195	-0.450	0.0	0.0
684	74.614	74.195	-0.450	0.0	0.0
690	74.614	74.195	-0.450	0.0	0.0
696	74.614	74.195	-0.450	0.0	0.0
702	74.614	74.195	-0.450	0.0	0.0
708	74.614	74.195	-0.450	0.0	0.0
714	74.614	74.195	-0.450	0.0	0.0
720	74.614	74.195	-0.450	0.0	0.0

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 3.000 US/MH 22 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.951	74.521	-0.224	0.0	0.0
12	74.952	74.522	-0.223	0.0	0.1
18	74.953	74.523	-0.222	0.0	0.2
24	74.953	74.524	-0.222	0.0	0.2
30	74.954	74.524	-0.221	0.0	0.2
36	74.954	74.524	-0.221	0.0	0.2
42	74.954	74.525	-0.221	0.0	0.2
48	74.954	74.525	-0.221	0.0	0.2
54	74.954	74.525	-0.221	0.0	0.2
60	74.954	74.525	-0.221	0.0	0.2
66	74.954	74.525	-0.221	0.0	0.2
72	74.954	74.525	-0.221	0.0	0.2
78	74.954	74.525	-0.221	0.0	0.3
84	74.955	74.525	-0.220	0.0	0.3
90	74.955	74.526	-0.220	0.0	0.3
96	74.956	74.527	-0.219	0.0	0.4
102	74.956	74.528	-0.219	0.0	0.4
108	74.957	74.529	-0.218	0.0	0.5
114	74.958	74.530	-0.217	0.0	0.5
120	74.959	74.531	-0.216	0.0	0.6
126	74.961	74.533	-0.214	0.0	0.7
132	74.962	74.534	-0.213	0.0	0.8
138	74.963	74.536	-0.212	0.0	0.8
144	74.965	74.538	-0.210	0.0	0.9
150	74.966	74.539	-0.209	0.0	1.0
156	74.968	74.541	-0.207	0.0	1.1
162	74.969	74.542	-0.206	0.0	1.2
168	74.970	74.544	-0.205	0.0	1.3
174	74.971	74.545	-0.204	0.0	1.3
180	74.971	74.545	-0.204	0.0	1.3
186	74.971	74.545	-0.204	0.0	1.3
192	74.971	74.545	-0.204	0.0	1.3
198	74.970	74.544	-0.205	0.0	1.3
204	74.969	74.542	-0.206	0.0	1.2
210	74.968	74.541	-0.207	0.0	1.1
216	74.966	74.540	-0.209	0.0	1.0
222	74.965	74.538	-0.210	0.0	0.9
228	74.963	74.536	-0.212	0.0	0.9
234	74.962	74.535	-0.213	0.0	0.8
240	74.961	74.533	-0.214	0.0	0.7
246	74.959	74.531	-0.216	0.0	0.6
252	74.958	74.530	-0.217	0.0	0.5
258	74.957	74.529	-0.218	0.0	0.5
264	74.956	74.528	-0.219	0.0	0.4
270	74.956	74.527	-0.219	0.0	0.4

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Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 3.000 US/MH 22 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.955	74.526	-0.220	0.0	0.3
282	74.955	74.525	-0.220	0.0	0.3
288	74.954	74.525	-0.221	0.0	0.3
294	74.954	74.525	-0.221	0.0	0.3
300	74.954	74.525	-0.221	0.0	0.2
306	74.954	74.525	-0.221	0.0	0.2
312	74.954	74.525	-0.221	0.0	0.2
318	74.954	74.525	-0.221	0.0	0.2
324	74.954	74.525	-0.221	0.0	0.2
330	74.954	74.524	-0.221	0.0	0.2
336	74.954	74.524	-0.221	0.0	0.2
342	74.953	74.524	-0.222	0.0	0.2
348	74.953	74.523	-0.222	0.0	0.2
354	74.952	74.522	-0.223	0.0	0.1
360	74.951	74.521	-0.224	0.0	0.0
366	74.950	74.520	-0.225	0.0	0.0
372	74.950	74.520	-0.225	0.0	0.0
378	74.950	74.520	-0.225	0.0	0.0
384	74.950	74.520	-0.225	0.0	0.0
390	74.950	74.520	-0.225	0.0	0.0
396	74.950	74.520	-0.225	0.0	0.0
402	74.950	74.520	-0.225	0.0	0.0
408	74.950	74.520	-0.225	0.0	0.0
414	74.950	74.520	-0.225	0.0	0.0
420	74.950	74.520	-0.225	0.0	0.0
426	74.950	74.520	-0.225	0.0	0.0
432	74.950	74.520	-0.225	0.0	0.0
438	74.950	74.520	-0.225	0.0	0.0
444	74.950	74.520	-0.225	0.0	0.0
450	74.950	74.520	-0.225	0.0	0.0
456	74.950	74.520	-0.225	0.0	0.0
462	74.950	74.520	-0.225	0.0	0.0
468	74.950	74.520	-0.225	0.0	0.0
474	74.950	74.520	-0.225	0.0	0.0
480	74.950	74.520	-0.225	0.0	0.0
486	74.950	74.520	-0.225	0.0	0.0
492	74.950	74.520	-0.225	0.0	0.0
498	74.950	74.520	-0.225	0.0	0.0
504	74.950	74.520	-0.225	0.0	0.0
510	74.950	74.520	-0.225	0.0	0.0
516	74.950	74.520	-0.225	0.0	0.0
522	74.950	74.520	-0.225	0.0	0.0
528	74.950	74.520	-0.225	0.0	0.0
534	74.950	74.520	-0.225	0.0	0.0
540	74.950	74.520	-0.225	0.0	0.0

RPS P&D		Page 52
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 3.000 US/MH 22 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.950	74.520	-0.225	0.0	0.0
552	74.950	74.520	-0.225	0.0	0.0
558	74.950	74.520	-0.225	0.0	0.0
564	74.950	74.520	-0.225	0.0	0.0
570	74.950	74.520	-0.225	0.0	0.0
576	74.950	74.520	-0.225	0.0	0.0
582	74.950	74.520	-0.225	0.0	0.0
588	74.950	74.520	-0.225	0.0	0.0
594	74.950	74.520	-0.225	0.0	0.0
600	74.950	74.520	-0.225	0.0	0.0
606	74.950	74.520	-0.225	0.0	0.0
612	74.950	74.520	-0.225	0.0	0.0
618	74.950	74.520	-0.225	0.0	0.0
624	74.950	74.520	-0.225	0.0	0.0
630	74.950	74.520	-0.225	0.0	0.0
636	74.950	74.520	-0.225	0.0	0.0
642	74.950	74.520	-0.225	0.0	0.0
648	74.950	74.520	-0.225	0.0	0.0
654	74.950	74.520	-0.225	0.0	0.0
660	74.950	74.520	-0.225	0.0	0.0
666	74.950	74.520	-0.225	0.0	0.0
672	74.950	74.520	-0.225	0.0	0.0
678	74.950	74.520	-0.225	0.0	0.0
684	74.950	74.520	-0.225	0.0	0.0
690	74.950	74.520	-0.225	0.0	0.0
696	74.950	74.520	-0.225	0.0	0.0
702	74.950	74.520	-0.225	0.0	0.0
708	74.950	74.520	-0.225	0.0	0.0
714	74.950	74.520	-0.225	0.0	0.0
720	74.950	74.520	-0.225	0.0	0.0

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 3.001 US/MH 23 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.521	74.198	-0.299	0.0	0.0
12	74.522	74.204	-0.298	0.0	0.1
18	74.523	74.210	-0.297	0.0	0.2
24	74.524	74.213	-0.296	0.0	0.3
30	74.524	74.216	-0.296	0.0	0.3
36	74.524	74.218	-0.296	0.0	0.3
42	74.525	74.219	-0.295	0.0	0.3
48	74.525	74.220	-0.295	0.0	0.3
54	74.525	74.220	-0.295	0.0	0.3
60	74.525	74.221	-0.295	0.0	0.3
66	74.525	74.222	-0.295	0.0	0.3
72	74.525	74.223	-0.295	0.0	0.3
78	74.525	74.224	-0.295	0.0	0.4
84	74.525	74.227	-0.295	0.0	0.4
90	74.526	74.229	-0.294	0.0	0.4
96	74.527	74.233	-0.293	0.0	0.5
102	74.528	74.240	-0.292	0.0	0.6
108	74.529	74.242	-0.291	0.0	0.6
114	74.530	74.244	-0.290	0.0	0.7
120	74.531	74.246	-0.289	0.0	0.8
126	74.533	74.249	-0.287	0.0	0.9
132	74.534	74.252	-0.286	0.0	1.0
138	74.536	74.255	-0.284	0.0	1.2
144	74.538	74.258	-0.282	0.0	1.3
150	74.539	74.262	-0.281	0.0	1.4
156	74.541	74.265	-0.279	0.0	1.5
162	74.542	74.269	-0.278	0.0	1.6
168	74.544	74.272	-0.276	0.0	1.7
174	74.545	74.275	-0.275	0.0	1.8
180	74.545	74.277	-0.275	0.0	1.9
186	74.545	74.278	-0.275	0.0	1.9
192	74.545	74.277	-0.275	0.0	1.8
198	74.544	74.277	-0.276	0.0	1.8
204	74.542	74.275	-0.278	0.0	1.7
210	74.541	74.273	-0.279	0.0	1.6
216	74.540	74.271	-0.280	0.0	1.5
222	74.538	74.268	-0.282	0.0	1.3
228	74.536	74.265	-0.284	0.0	1.2
234	74.535	74.263	-0.285	0.0	1.1
240	74.533	74.260	-0.287	0.0	1.0
246	74.531	74.258	-0.289	0.0	0.8
252	74.530	74.257	-0.290	0.0	0.7
258	74.529	74.255	-0.291	0.0	0.7
264	74.528	74.253	-0.292	0.0	0.6
270	74.527	74.252	-0.293	0.0	0.5

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 3.001 US/MH 23 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.526	74.251	-0.294	0.0	0.4
282	74.525	74.249	-0.295	0.0	0.4
288	74.525	74.248	-0.295	0.0	0.4
294	74.525	74.248	-0.295	0.0	0.4
300	74.525	74.247	-0.295	0.0	0.3
306	74.525	74.246	-0.295	0.0	0.3
312	74.525	74.246	-0.295	0.0	0.3
318	74.525	74.245	-0.295	0.0	0.3
324	74.525	74.245	-0.295	0.0	0.3
330	74.524	74.245	-0.296	0.0	0.3
336	74.524	74.244	-0.296	0.0	0.3
342	74.524	74.243	-0.296	0.0	0.3
348	74.523	74.242	-0.297	0.0	0.2
354	74.522	74.239	-0.298	0.0	0.2
360	74.521	74.233	-0.299	0.0	0.1
366	74.520	74.225	-0.300	0.0	0.0
372	74.520	74.223	-0.300	0.0	0.0
378	74.520	74.220	-0.300	0.0	0.0
384	74.520	74.218	-0.300	0.0	0.0
390	74.520	74.216	-0.300	0.0	0.0
396	74.520	74.214	-0.300	0.0	0.0
402	74.520	74.213	-0.300	0.0	0.0
408	74.520	74.211	-0.300	0.0	0.0
414	74.520	74.210	-0.300	0.0	0.0
420	74.520	74.208	-0.300	0.0	0.0
426	74.520	74.207	-0.300	0.0	0.0
432	74.520	74.206	-0.300	0.0	0.0
438	74.520	74.206	-0.300	0.0	0.0
444	74.520	74.205	-0.300	0.0	0.0
450	74.520	74.204	-0.300	0.0	0.0
456	74.520	74.203	-0.300	0.0	0.0
462	74.520	74.202	-0.300	0.0	0.0
468	74.520	74.201	-0.300	0.0	0.0
474	74.520	74.201	-0.300	0.0	0.0
480	74.520	74.200	-0.300	0.0	0.0
486	74.520	74.200	-0.300	0.0	0.0
492	74.520	74.199	-0.300	0.0	0.0
498	74.520	74.199	-0.300	0.0	0.0
504	74.520	74.199	-0.300	0.0	0.0
510	74.520	74.198	-0.300	0.0	0.0
516	74.520	74.198	-0.300	0.0	0.0
522	74.520	74.198	-0.300	0.0	0.0
528	74.520	74.198	-0.300	0.0	0.0
534	74.520	74.198	-0.300	0.0	0.0
540	74.520	74.197	-0.300	0.0	0.0

RPS P&D		Page 55
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 3.001 US/MH 23 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.520	74.197	-0.300	0.0	0.0
552	74.520	74.197	-0.300	0.0	0.0
558	74.520	74.197	-0.300	0.0	0.0
564	74.520	74.197	-0.300	0.0	0.0
570	74.520	74.197	-0.300	0.0	0.0
576	74.520	74.197	-0.300	0.0	0.0
582	74.520	74.196	-0.300	0.0	0.0
588	74.520	74.196	-0.300	0.0	0.0
594	74.520	74.196	-0.300	0.0	0.0
600	74.520	74.196	-0.300	0.0	0.0
606	74.520	74.196	-0.300	0.0	0.0
612	74.520	74.196	-0.300	0.0	0.0
618	74.520	74.196	-0.300	0.0	0.0
624	74.520	74.196	-0.300	0.0	0.0
630	74.520	74.196	-0.300	0.0	0.0
636	74.520	74.196	-0.300	0.0	0.0
642	74.520	74.196	-0.300	0.0	0.0
648	74.520	74.196	-0.300	0.0	0.0
654	74.520	74.196	-0.300	0.0	0.0
660	74.520	74.196	-0.300	0.0	0.0
666	74.520	74.196	-0.300	0.0	0.0
672	74.520	74.196	-0.300	0.0	0.0
678	74.520	74.195	-0.300	0.0	0.0
684	74.520	74.195	-0.300	0.0	0.0
690	74.520	74.195	-0.300	0.0	0.0
696	74.520	74.195	-0.300	0.0	0.0
702	74.520	74.195	-0.300	0.0	0.0
708	74.520	74.195	-0.300	0.0	0.0
714	74.520	74.195	-0.300	0.0	0.0
720	74.520	74.195	-0.300	0.0	0.0

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.010 US/MH 12 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.198	74.147	-0.447	0.0	0.1
12	74.204	74.152	-0.441	0.0	0.5
18	74.210	74.156	-0.435	0.0	0.8
24	74.213	74.159	-0.432	0.0	1.1
30	74.216	74.161	-0.429	0.0	1.3
36	74.218	74.163	-0.427	0.0	1.5
42	74.219	74.164	-0.426	0.0	1.6
48	74.220	74.164	-0.425	0.0	1.6
54	74.220	74.165	-0.425	0.0	1.7
60	74.221	74.165	-0.424	0.0	1.7
66	74.222	74.166	-0.423	0.0	1.7
72	74.223	74.166	-0.422	0.0	1.8
78	74.224	74.167	-0.421	0.0	1.9
84	74.227	74.169	-0.418	0.0	2.0
90	74.229	74.171	-0.416	0.0	2.2
96	74.233	74.174	-0.412	0.0	2.4
102	74.240	74.179	-0.405	0.0	2.8
108	74.242	74.184	-0.403	0.0	3.2
114	74.244	74.189	-0.401	0.0	3.6
120	74.246	74.192	-0.399	0.0	4.1
126	74.249	74.194	-0.396	0.0	4.6
132	74.252	74.196	-0.393	0.0	5.2
138	74.255	74.199	-0.390	0.0	5.9
144	74.258	74.201	-0.387	0.0	6.6
150	74.262	74.204	-0.383	0.0	7.3
156	74.265	74.207	-0.380	0.0	8.0
162	74.269	74.209	-0.376	0.0	8.7
168	74.272	74.212	-0.373	0.0	9.4
174	74.275	74.214	-0.370	0.0	10.0
180	74.277	74.216	-0.368	0.0	10.5
186	74.278	74.216	-0.367	0.0	10.8
192	74.277	74.216	-0.368	0.0	10.8
198	74.277	74.216	-0.368	0.0	10.7
204	74.275	74.214	-0.370	0.0	10.4
210	74.273	74.213	-0.372	0.0	9.9
216	74.271	74.211	-0.374	0.0	9.5
222	74.268	74.209	-0.377	0.0	8.9
228	74.265	74.207	-0.380	0.0	8.4
234	74.263	74.206	-0.382	0.0	7.8
240	74.260	74.206	-0.385	0.0	7.3
246	74.258	74.206	-0.387	0.0	6.8
252	74.257	74.207	-0.388	0.0	6.3
258	74.255	74.207	-0.390	0.0	5.9
264	74.253	74.207	-0.392	0.0	5.5
270	74.252	74.207	-0.393	0.0	5.1

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.010 US/MH 12 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.251	74.208	-0.394	0.0	4.8
282	74.249	74.208	-0.396	0.0	4.5
288	74.248	74.208	-0.397	0.0	4.2
294	74.248	74.208	-0.397	0.0	4.1
300	74.247	74.208	-0.398	0.0	3.9
306	74.246	74.208	-0.399	0.0	3.7
312	74.246	74.208	-0.399	0.0	3.6
318	74.245	74.208	-0.400	0.0	3.5
324	74.245	74.208	-0.400	0.0	3.4
330	74.245	74.208	-0.400	0.0	3.3
336	74.244	74.208	-0.401	0.0	3.2
342	74.243	74.208	-0.402	0.0	3.0
348	74.242	74.207	-0.403	0.0	2.8
354	74.239	74.206	-0.406	0.0	2.5
360	74.233	74.204	-0.412	0.0	2.0
366	74.225	74.202	-0.420	0.0	1.5
372	74.223	74.201	-0.422	0.0	1.2
378	74.220	74.199	-0.425	0.0	1.1
384	74.218	74.197	-0.427	0.0	1.0
390	74.216	74.196	-0.429	0.0	0.9
396	74.214	74.194	-0.431	0.0	0.8
402	74.213	74.192	-0.432	0.0	0.8
408	74.211	74.190	-0.434	0.0	0.7
414	74.210	74.188	-0.435	0.0	0.6
420	74.208	74.186	-0.437	0.0	0.6
426	74.207	74.184	-0.438	0.0	0.5
432	74.206	74.183	-0.439	0.0	0.5
438	74.206	74.181	-0.439	0.0	0.5
444	74.205	74.179	-0.440	0.0	0.4
450	74.204	74.177	-0.441	0.0	0.4
456	74.203	74.175	-0.442	0.0	0.4
462	74.202	74.173	-0.443	0.0	0.4
468	74.201	74.171	-0.444	0.0	0.3
474	74.201	74.169	-0.444	0.0	0.3
480	74.200	74.167	-0.445	0.0	0.3
486	74.200	74.165	-0.445	0.0	0.3
492	74.199	74.163	-0.446	0.0	0.2
498	74.199	74.161	-0.446	0.0	0.2
504	74.199	74.160	-0.446	0.0	0.2
510	74.198	74.158	-0.447	0.0	0.2
516	74.198	74.156	-0.447	0.0	0.2
522	74.198	74.154	-0.447	0.0	0.2
528	74.198	74.153	-0.447	0.0	0.2
534	74.198	74.152	-0.447	0.0	0.2
540	74.197	74.150	-0.448	0.0	0.2

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.010 US/MH 12 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.197	74.149	-0.448	0.0	0.1
552	74.197	74.149	-0.448	0.0	0.1
558	74.197	74.148	-0.448	0.0	0.1
564	74.197	74.148	-0.448	0.0	0.1
570	74.197	74.147	-0.448	0.0	0.1
576	74.197	74.147	-0.448	0.0	0.1
582	74.196	74.147	-0.449	0.0	0.1
588	74.196	74.146	-0.449	0.0	0.1
594	74.196	74.146	-0.449	0.0	0.1
600	74.196	74.146	-0.449	0.0	0.1
606	74.196	74.146	-0.449	0.0	0.1
612	74.196	74.146	-0.449	0.0	0.1
618	74.196	74.146	-0.449	0.0	0.1
624	74.196	74.146	-0.449	0.0	0.1
630	74.196	74.146	-0.449	0.0	0.1
636	74.196	74.146	-0.449	0.0	0.1
642	74.196	74.146	-0.449	0.0	0.0
648	74.196	74.146	-0.449	0.0	0.0
654	74.196	74.146	-0.449	0.0	0.0
660	74.196	74.145	-0.449	0.0	0.0
666	74.196	74.145	-0.449	0.0	0.0
672	74.196	74.145	-0.449	0.0	0.0
678	74.195	74.145	-0.450	0.0	0.0
684	74.195	74.145	-0.450	0.0	0.0
690	74.195	74.145	-0.450	0.0	0.0
696	74.195	74.145	-0.450	0.0	0.0
702	74.195	74.145	-0.450	0.0	0.0
708	74.195	74.145	-0.450	0.0	0.0
714	74.195	74.145	-0.450	0.0	0.0
720	74.195	74.145	-0.450	0.0	0.0

RPS P&D		Page 59
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.011 US/MH 13 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.147	74.045	-0.448	0.0	0.1
12	74.152	74.045	-0.443	0.0	0.4
18	74.156	74.046	-0.439	0.0	0.7
24	74.159	74.047	-0.436	0.0	1.1
30	74.161	74.048	-0.434	0.0	1.3
36	74.163	74.049	-0.432	0.0	1.4
42	74.164	74.051	-0.431	0.0	1.5
48	74.164	74.052	-0.431	0.0	1.6
54	74.165	74.053	-0.430	0.0	1.6
60	74.165	74.054	-0.430	0.0	1.7
66	74.166	74.056	-0.429	0.0	1.7
72	74.166	74.057	-0.429	0.0	1.8
78	74.167	74.059	-0.428	0.0	1.8
84	74.169	74.061	-0.426	0.0	2.0
90	74.171	74.062	-0.424	0.0	2.1
96	74.174	74.064	-0.421	0.0	2.3
102	74.179	74.067	-0.416	0.0	2.7
108	74.184	74.069	-0.411	0.0	3.1
114	74.189	74.072	-0.406	0.0	3.5
120	74.192	74.075	-0.403	0.0	4.0
126	74.194	74.078	-0.401	0.0	4.5
132	74.196	74.082	-0.399	0.0	5.1
138	74.199	74.086	-0.396	0.0	5.7
144	74.201	74.091	-0.394	0.0	6.4
150	74.204	74.096	-0.391	0.0	7.2
156	74.207	74.102	-0.388	0.0	7.9
162	74.209	74.108	-0.386	0.0	8.6
168	74.212	74.114	-0.383	0.0	9.3
174	74.214	74.121	-0.381	0.0	9.9
180	74.216	74.129	-0.379	0.0	10.4
186	74.216	74.136	-0.379	0.0	10.7
192	74.216	74.143	-0.379	0.0	10.8
198	74.216	74.152	-0.379	0.0	10.7
204	74.214	74.159	-0.381	0.0	10.4
210	74.213	74.165	-0.382	0.0	10.0
216	74.211	74.170	-0.384	0.0	9.5
222	74.209	74.176	-0.386	0.0	8.9
228	74.207	74.180	-0.388	0.0	8.4
234	74.206	74.184	-0.389	0.0	7.8
240	74.206	74.188	-0.389	0.0	7.3
246	74.206	74.191	-0.389	0.0	6.8
252	74.207	74.193	-0.388	0.0	6.3
258	74.207	74.196	-0.388	0.0	5.9
264	74.207	74.198	-0.388	0.0	5.5
270	74.207	74.199	-0.388	0.0	5.1

RPS P&D		Page 60
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.011 US/MH 13 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.208	74.201	-0.387	0.0	4.8
282	74.208	74.202	-0.387	0.0	4.5
288	74.208	74.202	-0.387	0.0	4.2
294	74.208	74.203	-0.387	0.0	4.1
300	74.208	74.203	-0.387	0.0	3.9
306	74.208	74.204	-0.387	0.0	3.7
312	74.208	74.204	-0.387	0.0	3.6
318	74.208	74.204	-0.387	0.0	3.5
324	74.208	74.204	-0.387	0.0	3.4
330	74.208	74.204	-0.387	0.0	3.3
336	74.208	74.204	-0.387	0.0	3.3
342	74.208	74.204	-0.387	0.0	3.1
348	74.207	74.204	-0.388	0.0	2.9
354	74.206	74.204	-0.389	0.0	2.6
360	74.204	74.203	-0.391	0.0	2.2
366	74.202	74.202	-0.393	0.0	1.5
372	74.201	74.200	-0.394	0.0	1.3
378	74.199	74.198	-0.396	0.0	1.1
384	74.197	74.197	-0.398	0.0	1.0
390	74.196	74.195	-0.399	0.0	0.9
396	74.194	74.193	-0.401	0.0	0.9
402	74.192	74.191	-0.403	0.0	0.8
408	74.190	74.189	-0.405	0.0	0.7
414	74.188	74.187	-0.407	0.0	0.7
420	74.186	74.186	-0.409	0.0	0.6
426	74.184	74.184	-0.411	0.0	0.6
432	74.183	74.182	-0.412	0.0	0.5
438	74.181	74.180	-0.414	0.0	0.5
444	74.179	74.178	-0.416	0.0	0.5
450	74.177	74.176	-0.418	0.0	0.4
456	74.175	74.174	-0.420	0.0	0.4
462	74.173	74.172	-0.422	0.0	0.4
468	74.171	74.170	-0.424	0.0	0.4
474	74.169	74.169	-0.426	0.0	0.3
480	74.167	74.167	-0.428	0.0	0.3
486	74.165	74.165	-0.430	0.0	0.3
492	74.163	74.163	-0.432	0.0	0.3
498	74.161	74.161	-0.434	0.0	0.3
504	74.160	74.159	-0.435	0.0	0.2
510	74.158	74.157	-0.437	0.0	0.2
516	74.156	74.155	-0.439	0.0	0.2
522	74.154	74.153	-0.441	0.0	0.2
528	74.153	74.151	-0.442	0.0	0.2
534	74.152	74.149	-0.443	0.0	0.2
540	74.150	74.148	-0.445	0.0	0.2

RPS P&D		Page 61
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.011 US/MH 13 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.149	74.146	-0.446	0.0	0.2
552	74.149	74.144	-0.446	0.0	0.1
558	74.148	74.142	-0.447	0.0	0.1
564	74.148	74.141	-0.447	0.0	0.1
570	74.147	74.139	-0.448	0.0	0.1
576	74.147	74.137	-0.448	0.0	0.1
582	74.147	74.136	-0.448	0.0	0.1
588	74.146	74.134	-0.449	0.0	0.1
594	74.146	74.132	-0.449	0.0	0.1
600	74.146	74.131	-0.449	0.0	0.1
606	74.146	74.129	-0.449	0.0	0.1
612	74.146	74.128	-0.449	0.0	0.1
618	74.146	74.126	-0.449	0.0	0.1
624	74.146	74.125	-0.449	0.0	0.1
630	74.146	74.123	-0.449	0.0	0.1
636	74.146	74.122	-0.449	0.0	0.1
642	74.146	74.120	-0.449	0.0	0.1
648	74.146	74.119	-0.449	0.0	0.0
654	74.146	74.117	-0.449	0.0	0.0
660	74.145	74.116	-0.450	0.0	0.0
666	74.145	74.115	-0.450	0.0	0.0
672	74.145	74.113	-0.450	0.0	0.0
678	74.145	74.112	-0.450	0.0	0.0
684	74.145	74.111	-0.450	0.0	0.0
690	74.145	74.109	-0.450	0.0	0.0
696	74.145	74.108	-0.450	0.0	0.0
702	74.145	74.107	-0.450	0.0	0.0
708	74.145	74.106	-0.450	0.0	0.0
714	74.145	74.105	-0.450	0.0	0.0
720	74.145	74.103	-0.450	0.0	0.0

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.012 US/MH 15 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.045	74.025	-0.450	0.0	0.0
12	74.045	74.025	-0.450	0.0	0.0
18	74.046	74.025	-0.449	0.0	0.0
24	74.047	74.025	-0.448	0.0	0.0
30	74.048	74.025	-0.447	0.0	0.0
36	74.049	74.025	-0.446	0.0	0.0
42	74.051	74.025	-0.444	0.0	0.0
48	74.052	74.025	-0.443	0.0	0.0
54	74.053	74.026	-0.442	0.0	0.0
60	74.054	74.026	-0.441	0.0	0.0
66	74.056	74.026	-0.439	0.0	0.1
72	74.057	74.027	-0.438	0.0	0.1
78	74.059	74.027	-0.436	0.0	0.1
84	74.061	74.028	-0.434	0.0	0.1
90	74.062	74.029	-0.433	0.0	0.2
96	74.064	74.030	-0.431	0.0	0.2
102	74.067	74.031	-0.428	0.0	0.2
108	74.069	74.032	-0.426	0.0	0.3
114	74.072	74.034	-0.423	0.0	0.4
120	74.075	74.036	-0.420	0.0	0.4
126	74.078	74.038	-0.417	0.0	0.5
132	74.082	74.041	-0.413	0.0	0.6
138	74.086	74.044	-0.409	0.0	0.8
144	74.091	74.049	-0.404	0.0	1.1
150	74.096	74.050	-0.399	0.0	1.2
156	74.102	74.051	-0.393	0.0	1.3
162	74.108	74.052	-0.387	0.0	1.4
168	74.114	74.053	-0.381	0.0	1.5
174	74.121	74.055	-0.374	0.0	1.7
180	74.129	74.056	-0.366	0.0	1.8
186	74.136	74.057	-0.359	0.0	2.0
192	74.143	74.059	-0.352	0.0	2.2
198	74.152	74.060	-0.343	0.0	2.3
204	74.159	74.062	-0.336	0.0	2.5
210	74.165	74.063	-0.330	0.0	2.6
216	74.170	74.063	-0.325	0.0	2.7
222	74.176	74.064	-0.319	0.0	2.8
228	74.180	74.065	-0.315	0.0	2.9
234	74.184	74.065	-0.311	0.0	2.9
240	74.188	74.066	-0.307	0.0	3.0
246	74.191	74.066	-0.304	0.0	3.0
252	74.193	74.067	-0.302	0.0	3.1
258	74.196	74.067	-0.299	0.0	3.1
264	74.198	74.067	-0.297	0.0	3.2
270	74.199	74.067	-0.296	0.0	3.2

RPS P&D		Page 63
20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.012 US/MH 15 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.201	74.067	-0.294	0.0	3.2
282	74.202	74.068	-0.293	0.0	3.2
288	74.202	74.068	-0.293	0.0	3.2
294	74.203	74.068	-0.292	0.0	3.3
300	74.203	74.068	-0.292	0.0	3.3
306	74.204	74.068	-0.291	0.0	3.3
312	74.204	74.068	-0.291	0.0	3.3
318	74.204	74.068	-0.291	0.0	3.3
324	74.204	74.068	-0.291	0.0	3.3
330	74.204	74.068	-0.291	0.0	3.3
336	74.204	74.068	-0.291	0.0	3.3
342	74.204	74.068	-0.291	0.0	3.3
348	74.204	74.068	-0.291	0.0	3.3
354	74.204	74.068	-0.291	0.0	3.3
360	74.203	74.068	-0.292	0.0	3.3
366	74.202	74.068	-0.293	0.0	3.2
372	74.200	74.068	-0.295	0.0	3.2
378	74.198	74.067	-0.297	0.0	3.2
384	74.197	74.067	-0.298	0.0	3.2
390	74.195	74.067	-0.300	0.0	3.1
396	74.193	74.067	-0.302	0.0	3.1
402	74.191	74.066	-0.304	0.0	3.1
408	74.189	74.066	-0.306	0.0	3.1
414	74.187	74.066	-0.308	0.0	3.0
420	74.186	74.066	-0.309	0.0	3.0
426	74.184	74.065	-0.311	0.0	3.0
432	74.182	74.065	-0.313	0.0	2.9
438	74.180	74.065	-0.315	0.0	2.9
444	74.178	74.065	-0.317	0.0	2.9
450	74.176	74.064	-0.319	0.0	2.8
456	74.174	74.064	-0.321	0.0	2.8
462	74.172	74.064	-0.323	0.0	2.8
468	74.170	74.064	-0.325	0.0	2.8
474	74.169	74.063	-0.326	0.0	2.7
480	74.167	74.063	-0.328	0.0	2.7
486	74.165	74.063	-0.330	0.0	2.7
492	74.163	74.063	-0.332	0.0	2.6
498	74.161	74.062	-0.334	0.0	2.6
504	74.159	74.062	-0.336	0.0	2.6
510	74.157	74.062	-0.338	0.0	2.5
516	74.155	74.061	-0.340	0.0	2.5
522	74.153	74.061	-0.342	0.0	2.4
528	74.151	74.061	-0.344	0.0	2.4
534	74.149	74.060	-0.346	0.0	2.4
540	74.148	74.060	-0.347	0.0	2.3

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
Causeway		Network 2014.1.1


Flows and Levels for Pipe 1.012 US/MH 15 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.146	74.060	-0.349	0.0	2.3
552	74.144	74.059	-0.351	0.0	2.2
558	74.142	74.059	-0.353	0.0	2.2
564	74.141	74.059	-0.354	0.0	2.2
570	74.139	74.058	-0.356	0.0	2.1
576	74.137	74.058	-0.358	0.0	2.1
582	74.136	74.058	-0.359	0.0	2.1
588	74.134	74.057	-0.361	0.0	2.0
594	74.132	74.057	-0.363	0.0	2.0
600	74.131	74.057	-0.364	0.0	1.9
606	74.129	74.057	-0.366	0.0	1.9
612	74.128	74.056	-0.367	0.0	1.9
618	74.126	74.056	-0.369	0.0	1.8
624	74.125	74.056	-0.370	0.0	1.8
630	74.123	74.056	-0.372	0.0	1.8
636	74.122	74.055	-0.373	0.0	1.8
642	74.120	74.055	-0.375	0.0	1.7
648	74.119	74.055	-0.376	0.0	1.7
654	74.117	74.054	-0.378	0.0	1.7
660	74.116	74.054	-0.379	0.0	1.6
666	74.115	74.054	-0.380	0.0	1.6
672	74.113	74.054	-0.382	0.0	1.6
678	74.112	74.054	-0.383	0.0	1.5
684	74.111	74.053	-0.384	0.0	1.5
690	74.109	74.053	-0.386	0.0	1.5
696	74.108	74.053	-0.387	0.0	1.5
702	74.107	74.053	-0.388	0.0	1.4
708	74.106	74.052	-0.389	0.0	1.4
714	74.105	74.052	-0.390	0.0	1.4
720	74.103	74.052	-0.392	0.0	1.4

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Causeway	Network 2014.1.1	


Flows and Levels for Pipe 1.013 US/MH 16 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.025	73.673	-0.225	0.0	0.0
12	74.025	73.673	-0.225	0.0	0.0
18	74.025	73.673	-0.225	0.0	0.0
24	74.025	73.673	-0.225	0.0	0.0
30	74.025	73.673	-0.225	0.0	0.0
36	74.025	73.673	-0.225	0.0	0.0
42	74.025	73.673	-0.225	0.0	0.0
48	74.025	73.673	-0.225	0.0	0.0
54	74.026	73.673	-0.224	0.0	0.0
60	74.026	73.673	-0.224	0.0	0.0
66	74.026	73.673	-0.224	0.0	0.0
72	74.027	73.673	-0.223	0.0	0.1
78	74.027	73.673	-0.223	0.0	0.1
84	74.028	73.673	-0.222	0.0	0.1
90	74.029	73.673	-0.221	0.0	0.1
96	74.030	73.673	-0.220	0.0	0.2
102	74.031	73.673	-0.219	0.0	0.2
108	74.032	73.673	-0.218	0.0	0.2
114	74.034	73.673	-0.216	0.0	0.3
120	74.036	73.673	-0.214	0.0	0.4
126	74.038	73.673	-0.212	0.0	0.4
132	74.041	73.673	-0.209	0.0	0.5
138	74.044	73.673	-0.206	0.0	0.6
144	74.049	73.673	-0.201	0.0	0.8
150	74.050	73.673	-0.200	0.0	1.1
156	74.051	73.673	-0.199	0.0	1.2
162	74.052	73.673	-0.198	0.0	1.3
168	74.053	73.673	-0.197	0.0	1.5
174	74.055	73.673	-0.195	0.0	1.6
180	74.056	73.673	-0.194	0.0	1.8
186	74.057	73.673	-0.193	0.0	1.9
192	74.059	73.673	-0.191	0.0	2.1
198	74.060	73.673	-0.190	0.0	2.2
204	74.062	73.673	-0.188	0.0	2.4
210	74.063	73.673	-0.187	0.0	2.6
216	74.063	73.673	-0.187	0.0	2.7
222	74.064	73.673	-0.186	0.0	2.8
228	74.065	73.673	-0.185	0.0	2.8
234	74.065	73.673	-0.185	0.0	2.9
240	74.066	73.673	-0.184	0.0	3.0
246	74.066	73.673	-0.184	0.0	3.0
252	74.067	73.673	-0.183	0.0	3.1
258	74.067	73.673	-0.183	0.0	3.1
264	74.067	73.673	-0.183	0.0	3.1
270	74.067	73.673	-0.183	0.0	3.2

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
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Flows and Levels for Pipe 1.013 US/MH 16 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.067	73.673	-0.183	0.0	3.2
282	74.068	73.673	-0.182	0.0	3.2
288	74.068	73.673	-0.182	0.0	3.2
294	74.068	73.673	-0.182	0.0	3.2
300	74.068	73.673	-0.182	0.0	3.3
306	74.068	73.673	-0.182	0.0	3.3
312	74.068	73.673	-0.182	0.0	3.3
318	74.068	73.673	-0.182	0.0	3.3
324	74.068	73.673	-0.182	0.0	3.3
330	74.068	73.673	-0.182	0.0	3.3
336	74.068	73.673	-0.182	0.0	3.3
342	74.068	73.673	-0.182	0.0	3.3
348	74.068	73.673	-0.182	0.0	3.3
354	74.068	73.673	-0.182	0.0	3.3
360	74.068	73.673	-0.182	0.0	3.3
366	74.068	73.673	-0.182	0.0	3.3
372	74.068	73.673	-0.182	0.0	3.2
378	74.067	73.673	-0.183	0.0	3.2
384	74.067	73.673	-0.183	0.0	3.2
390	74.067	73.673	-0.183	0.0	3.2
396	74.067	73.673	-0.183	0.0	3.1
402	74.066	73.673	-0.184	0.0	3.1
408	74.066	73.673	-0.184	0.0	3.1
414	74.066	73.673	-0.184	0.0	3.0
420	74.066	73.673	-0.184	0.0	3.0
426	74.065	73.673	-0.185	0.0	3.0
432	74.065	73.673	-0.185	0.0	3.0
438	74.065	73.673	-0.185	0.0	2.9
444	74.065	73.673	-0.185	0.0	2.9
450	74.064	73.673	-0.186	0.0	2.9
456	74.064	73.673	-0.186	0.0	2.8
462	74.064	73.673	-0.186	0.0	2.8
468	74.064	73.673	-0.186	0.0	2.8
474	74.063	73.673	-0.187	0.0	2.7
480	74.063	73.673	-0.187	0.0	2.7
486	74.063	73.673	-0.187	0.0	2.7
492	74.063	73.673	-0.187	0.0	2.7
498	74.062	73.673	-0.188	0.0	2.6
504	74.062	73.673	-0.188	0.0	2.6
510	74.062	73.673	-0.188	0.0	2.5
516	74.061	73.673	-0.189	0.0	2.5
522	74.061	73.673	-0.189	0.0	2.5
528	74.061	73.673	-0.189	0.0	2.4
534	74.060	73.673	-0.190	0.0	2.4
540	74.060	73.673	-0.190	0.0	2.3

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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land of Green Lane Chesterton	
Date 14/04/2016 File JNY8140 SW Network Desi...	Designed by HSS Checked by SF	
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Flows and Levels for Pipe 1.013 US/MH 16 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 1 year Winter I+0%
Average Rainfall Intensity 3.646 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.060	73.673	-0.190	0.0	2.3
552	74.059	73.673	-0.191	0.0	2.3
558	74.059	73.673	-0.191	0.0	2.2
564	74.059	73.673	-0.191	0.0	2.2
570	74.058	73.673	-0.192	0.0	2.1
576	74.058	73.673	-0.192	0.0	2.1
582	74.058	73.673	-0.192	0.0	2.1
588	74.057	73.673	-0.193	0.0	2.0
594	74.057	73.673	-0.193	0.0	2.0
600	74.057	73.673	-0.193	0.0	2.0
606	74.057	73.673	-0.193	0.0	1.9
612	74.056	73.673	-0.194	0.0	1.9
618	74.056	73.673	-0.194	0.0	1.9
624	74.056	73.673	-0.194	0.0	1.8
630	74.056	73.673	-0.194	0.0	1.8
636	74.055	73.673	-0.195	0.0	1.8
642	74.055	73.673	-0.195	0.0	1.7
648	74.055	73.673	-0.195	0.0	1.7
654	74.054	73.673	-0.196	0.0	1.7
660	74.054	73.673	-0.196	0.0	1.6
666	74.054	73.673	-0.196	0.0	1.6
672	74.054	73.673	-0.196	0.0	1.6
678	74.054	73.673	-0.196	0.0	1.6
684	74.053	73.673	-0.197	0.0	1.5
690	74.053	73.673	-0.197	0.0	1.5
696	74.053	73.673	-0.197	0.0	1.5
702	74.053	73.673	-0.197	0.0	1.5
708	74.052	73.673	-0.198	0.0	1.4
714	74.052	73.673	-0.198	0.0	1.4
720	74.052	73.673	-0.198	0.0	1.4