


RPS P&D		Page 0
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)	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)
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

RPS P&D		Page 1
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

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


RPS P&D		Page 2
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



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)	Pipe Out		Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	
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
								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

150

RPS P&D		Page 3
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


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

RPS P&D		Page 4
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	

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		

RPS P&D		Page 5
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

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


RPS P&D		Page 6
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

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		

RPS P&D		Page 7
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	

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

RPS P&D		Page 8
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	76.502	-0.225	0.0	0.0
12	76.901	76.505	-0.224	0.0	0.1
18	76.902	76.507	-0.223	0.0	0.1
24	76.902	76.509	-0.223	0.0	0.1
30	76.903	76.510	-0.222	0.0	0.1
36	76.903	76.511	-0.222	0.0	0.2
42	76.903	76.511	-0.222	0.0	0.2
48	76.903	76.511	-0.222	0.0	0.2
54	76.903	76.511	-0.222	0.0	0.2
60	76.903	76.511	-0.222	0.0	0.2
66	76.903	76.511	-0.222	0.0	0.2
72	76.903	76.511	-0.222	0.0	0.2
78	76.903	76.512	-0.222	0.0	0.2
84	76.903	76.513	-0.222	0.0	0.2
90	76.904	76.514	-0.221	0.0	0.2
96	76.904	76.516	-0.221	0.0	0.2
102	76.905	76.518	-0.220	0.0	0.3
108	76.905	76.521	-0.220	0.0	0.3
114	76.906	76.523	-0.219	0.0	0.4
120	76.907	76.524	-0.218	0.0	0.4
126	76.908	76.525	-0.217	0.0	0.5
132	76.909	76.526	-0.216	0.0	0.5
138	76.910	76.527	-0.215	0.0	0.6
144	76.911	76.529	-0.214	0.0	0.6
150	76.912	76.530	-0.213	0.0	0.7
156	76.913	76.531	-0.212	0.0	0.7
162	76.914	76.532	-0.211	0.0	0.8
168	76.915	76.533	-0.210	0.0	0.8
174	76.916	76.534	-0.209	0.0	0.9
180	76.916	76.535	-0.209	0.0	0.9
186	76.916	76.535	-0.209	0.0	0.9
192	76.916	76.534	-0.209	0.0	0.9
198	76.915	76.534	-0.210	0.0	0.9
204	76.914	76.533	-0.211	0.0	0.8
210	76.913	76.531	-0.212	0.0	0.8
216	76.912	76.530	-0.213	0.0	0.7
222	76.911	76.529	-0.214	0.0	0.6
228	76.910	76.528	-0.215	0.0	0.6
234	76.909	76.527	-0.216	0.0	0.5
240	76.908	76.525	-0.217	0.0	0.5
246	76.907	76.524	-0.218	0.0	0.4
252	76.906	76.523	-0.219	0.0	0.4
258	76.905	76.521	-0.220	0.0	0.3
264	76.905	76.519	-0.220	0.0	0.3
270	76.904	76.517	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	76.904	76.515	-0.221	0.0	0.2
282	76.903	76.513	-0.222	0.0	0.2
288	76.903	76.512	-0.222	0.0	0.2
294	76.903	76.512	-0.222	0.0	0.2
300	76.903	76.511	-0.222	0.0	0.2
306	76.903	76.511	-0.222	0.0	0.2
312	76.903	76.511	-0.222	0.0	0.2
318	76.903	76.511	-0.222	0.0	0.2
324	76.903	76.511	-0.222	0.0	0.2
330	76.903	76.511	-0.222	0.0	0.2
336	76.903	76.510	-0.222	0.0	0.1
342	76.902	76.509	-0.223	0.0	0.1
348	76.902	76.508	-0.223	0.0	0.1
354	76.901	76.505	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	76.502	76.066	-0.223	0.0	0.0
12	76.505	76.069	-0.220	0.0	0.2
18	76.507	76.072	-0.218	0.0	0.3
24	76.509	76.073	-0.216	0.0	0.4
30	76.510	76.074	-0.215	0.0	0.4
36	76.511	76.075	-0.214	0.0	0.4
42	76.511	76.075	-0.214	0.0	0.4
48	76.511	76.075	-0.214	0.0	0.5
54	76.511	76.075	-0.214	0.0	0.5
60	76.511	76.075	-0.214	0.0	0.5
66	76.511	76.075	-0.214	0.0	0.5
72	76.511	76.076	-0.214	0.0	0.5
78	76.512	76.076	-0.213	0.0	0.5
84	76.513	76.077	-0.212	0.0	0.5
90	76.514	76.078	-0.211	0.0	0.6
96	76.516	76.080	-0.209	0.0	0.6
102	76.518	76.082	-0.207	0.0	0.7
108	76.521	76.084	-0.204	0.0	0.8
114	76.523	76.087	-0.202	0.0	1.0
120	76.524	76.090	-0.201	0.0	1.1
126	76.525	76.093	-0.200	0.0	1.2
132	76.526	76.096	-0.199	0.0	1.4
138	76.527	76.097	-0.198	0.0	1.6
144	76.529	76.098	-0.196	0.0	1.7
150	76.530	76.099	-0.195	0.0	1.9
156	76.531	76.100	-0.194	0.0	2.1
162	76.532	76.101	-0.193	0.0	2.2
168	76.533	76.102	-0.192	0.0	2.3
174	76.534	76.103	-0.191	0.0	2.5
180	76.535	76.104	-0.190	0.0	2.5
186	76.535	76.104	-0.190	0.0	2.5
192	76.534	76.103	-0.191	0.0	2.5
198	76.534	76.103	-0.191	0.0	2.4
204	76.533	76.102	-0.192	0.0	2.3
210	76.531	76.101	-0.194	0.0	2.1
216	76.530	76.100	-0.195	0.0	2.0
222	76.529	76.098	-0.196	0.0	1.8
228	76.528	76.097	-0.197	0.0	1.7
234	76.527	76.096	-0.198	0.0	1.5
240	76.525	76.094	-0.200	0.0	1.3
246	76.524	76.091	-0.201	0.0	1.2
252	76.523	76.088	-0.202	0.0	1.0
258	76.521	76.085	-0.204	0.0	0.9
264	76.519	76.083	-0.206	0.0	0.8
270	76.517	76.081	-0.208	0.0	0.7

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	76.515	76.079	-0.210	0.0	0.6
282	76.513	76.077	-0.212	0.0	0.6
288	76.512	76.077	-0.213	0.0	0.5
294	76.512	76.076	-0.213	0.0	0.5
300	76.511	76.075	-0.214	0.0	0.5
306	76.511	76.075	-0.214	0.0	0.5
312	76.511	76.075	-0.214	0.0	0.5
318	76.511	76.075	-0.214	0.0	0.5
324	76.511	76.075	-0.214	0.0	0.5
330	76.511	76.075	-0.214	0.0	0.4
336	76.510	76.075	-0.215	0.0	0.4
342	76.509	76.074	-0.216	0.0	0.4
348	76.508	76.072	-0.217	0.0	0.3
354	76.505	76.070	-0.220	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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	75.869	-0.296	0.0	0.2
18	76.072	75.872	-0.293	0.0	0.4
24	76.073	75.873	-0.292	0.0	0.5
30	76.074	75.874	-0.291	0.0	0.5
36	76.075	75.875	-0.290	0.0	0.6
42	76.075	75.875	-0.290	0.0	0.6
48	76.075	75.875	-0.290	0.0	0.6
54	76.075	75.875	-0.290	0.0	0.6
60	76.075	75.875	-0.290	0.0	0.6
66	76.075	75.875	-0.290	0.0	0.6
72	76.076	75.875	-0.289	0.0	0.6
78	76.076	75.876	-0.289	0.0	0.7
84	76.077	75.877	-0.288	0.0	0.7
90	76.078	75.878	-0.287	0.0	0.8
96	76.080	75.879	-0.285	0.0	0.8
102	76.082	75.881	-0.283	0.0	1.0
108	76.084	75.883	-0.281	0.0	1.1
114	76.087	75.887	-0.278	0.0	1.3
120	76.090	75.890	-0.275	0.0	1.5
126	76.093	75.893	-0.272	0.0	1.6
132	76.096	75.896	-0.269	0.0	1.9
138	76.097	75.897	-0.268	0.0	2.1
144	76.098	75.898	-0.267	0.0	2.3
150	76.099	75.899	-0.266	0.0	2.5
156	76.100	75.900	-0.265	0.0	2.8
162	76.101	75.901	-0.264	0.0	3.0
168	76.102	75.902	-0.263	0.0	3.2
174	76.103	75.903	-0.262	0.0	3.3
180	76.104	75.903	-0.261	0.0	3.4
186	76.104	75.904	-0.261	0.0	3.5
192	76.103	75.903	-0.262	0.0	3.4
198	76.103	75.902	-0.262	0.0	3.3
204	76.102	75.901	-0.263	0.0	3.1
210	76.101	75.900	-0.264	0.0	2.9
216	76.100	75.899	-0.265	0.0	2.7
222	76.098	75.898	-0.267	0.0	2.5
228	76.097	75.897	-0.268	0.0	2.3
234	76.096	75.896	-0.269	0.0	2.0
240	76.094	75.894	-0.271	0.0	1.8
246	76.091	75.891	-0.274	0.0	1.6
252	76.088	75.888	-0.277	0.0	1.4
258	76.085	75.885	-0.280	0.0	1.3
264	76.083	75.883	-0.282	0.0	1.1
270	76.081	75.881	-0.284	0.0	1.0

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	76.079	75.879	-0.286	0.0	0.9
282	76.077	75.877	-0.288	0.0	0.8
288	76.077	75.876	-0.288	0.0	0.7
294	76.076	75.876	-0.289	0.0	0.7
300	76.075	75.875	-0.290	0.0	0.6
306	76.075	75.875	-0.290	0.0	0.6
312	76.075	75.875	-0.290	0.0	0.6
318	76.075	75.875	-0.290	0.0	0.6
324	76.075	75.875	-0.290	0.0	0.6
330	76.075	75.875	-0.290	0.0	0.6
336	76.075	75.875	-0.290	0.0	0.6
342	76.074	75.874	-0.291	0.0	0.5
348	76.072	75.873	-0.293	0.0	0.5
354	76.070	75.870	-0.295	0.0	0.3
360	76.067	75.867	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	0.1
12	75.869	75.616	-0.296	0.0	0.2
18	75.872	75.618	-0.293	0.0	0.4
24	75.873	75.619	-0.292	0.0	0.5
30	75.874	75.620	-0.291	0.0	0.6
36	75.875	75.621	-0.290	0.0	0.7
42	75.875	75.621	-0.290	0.0	0.7
48	75.875	75.621	-0.290	0.0	0.7
54	75.875	75.621	-0.290	0.0	0.7
60	75.875	75.621	-0.290	0.0	0.7
66	75.875	75.621	-0.290	0.0	0.7
72	75.875	75.622	-0.290	0.0	0.7
78	75.876	75.622	-0.289	0.0	0.7
84	75.877	75.623	-0.288	0.0	0.8
90	75.878	75.624	-0.287	0.0	0.9
96	75.879	75.625	-0.286	0.0	0.9
102	75.881	75.626	-0.284	0.0	1.1
108	75.883	75.628	-0.282	0.0	1.2
114	75.887	75.632	-0.278	0.0	1.4
120	75.890	75.634	-0.275	0.0	1.6
126	75.893	75.637	-0.272	0.0	1.8
132	75.896	75.641	-0.269	0.0	2.1
138	75.897	75.643	-0.268	0.0	2.4
144	75.898	75.644	-0.267	0.0	2.6
150	75.899	75.645	-0.266	0.0	2.9
156	75.900	75.646	-0.265	0.0	3.1
162	75.901	75.647	-0.264	0.0	3.4
168	75.902	75.648	-0.263	0.0	3.6
174	75.903	75.649	-0.262	0.0	3.8
180	75.903	75.649	-0.262	0.0	3.9
186	75.904	75.649	-0.261	0.0	4.0
192	75.903	75.649	-0.262	0.0	3.9
198	75.902	75.648	-0.263	0.0	3.8
204	75.901	75.647	-0.264	0.0	3.6
210	75.900	75.646	-0.265	0.0	3.4
216	75.899	75.645	-0.266	0.0	3.1
222	75.898	75.644	-0.267	0.0	2.9
228	75.897	75.643	-0.268	0.0	2.6
234	75.896	75.642	-0.269	0.0	2.3
240	75.894	75.639	-0.271	0.0	2.1
246	75.891	75.636	-0.274	0.0	1.9
252	75.888	75.633	-0.277	0.0	1.7
258	75.885	75.630	-0.280	0.0	1.5
264	75.883	75.628	-0.282	0.0	1.3
270	75.881	75.626	-0.284	0.0	1.1

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.879	75.625	-0.286	0.0	1.0
282	75.877	75.623	-0.288	0.0	0.9
288	75.876	75.623	-0.289	0.0	0.8
294	75.876	75.622	-0.289	0.0	0.8
300	75.875	75.622	-0.290	0.0	0.7
306	75.875	75.621	-0.290	0.0	0.7
312	75.875	75.621	-0.290	0.0	0.7
318	75.875	75.621	-0.290	0.0	0.7
324	75.875	75.621	-0.290	0.0	0.7
330	75.875	75.621	-0.290	0.0	0.7
336	75.875	75.621	-0.290	0.0	0.7
342	75.874	75.620	-0.291	0.0	0.6
348	75.873	75.619	-0.292	0.0	0.6
354	75.870	75.617	-0.295	0.0	0.4
360	75.867	75.614	-0.298	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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.954	-0.299	0.0	0.1
12	75.616	74.965	-0.296	0.0	0.3
18	75.618	74.971	-0.294	0.0	0.5
24	75.619	74.978	-0.293	0.0	0.7
30	75.620	74.983	-0.292	0.0	0.8
36	75.621	74.986	-0.291	0.0	0.9
42	75.621	74.987	-0.291	0.0	0.9
48	75.621	74.988	-0.291	0.0	0.9
54	75.621	74.988	-0.291	0.0	0.9
60	75.621	74.988	-0.291	0.0	0.9
66	75.621	74.988	-0.291	0.0	0.9
72	75.622	74.989	-0.290	0.0	1.0
78	75.622	74.990	-0.290	0.0	1.0
84	75.623	74.992	-0.289	0.0	1.1
90	75.624	74.995	-0.288	0.0	1.1
96	75.625	74.996	-0.287	0.0	1.3
102	75.626	74.998	-0.286	0.0	1.4
108	75.628	75.001	-0.284	0.0	1.6
114	75.632	75.005	-0.280	0.0	1.9
120	75.634	75.009	-0.278	0.0	2.2
126	75.637	75.012	-0.275	0.0	2.4
132	75.641	75.017	-0.271	0.0	2.8
138	75.643	75.022	-0.269	0.0	3.2
144	75.644	75.026	-0.268	0.0	3.5
150	75.645	75.031	-0.267	0.0	3.8
156	75.646	75.035	-0.266	0.0	4.2
162	75.647	75.039	-0.265	0.0	4.5
168	75.648	75.041	-0.264	0.0	4.8
174	75.649	75.043	-0.263	0.0	5.1
180	75.649	75.045	-0.263	0.0	5.2
186	75.649	75.046	-0.263	0.0	5.3
192	75.649	75.048	-0.263	0.0	5.2
198	75.648	75.051	-0.264	0.0	5.1
204	75.647	75.052	-0.265	0.0	4.8
210	75.646	75.054	-0.266	0.0	4.5
216	75.645	75.055	-0.267	0.0	4.2
222	75.644	75.055	-0.268	0.0	3.8
228	75.643	75.054	-0.269	0.0	3.5
234	75.642	75.053	-0.270	0.0	3.2
240	75.639	75.052	-0.273	0.0	2.8
246	75.636	75.050	-0.276	0.0	2.5
252	75.633	75.047	-0.279	0.0	2.2
258	75.630	75.044	-0.282	0.0	2.0
264	75.628	75.040	-0.284	0.0	1.7
270	75.626	75.036	-0.286	0.0	1.5

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.625	75.032	-0.287	0.0	1.3
282	75.623	75.028	-0.289	0.0	1.2
288	75.623	75.024	-0.289	0.0	1.1
294	75.622	75.019	-0.290	0.0	1.0
300	75.622	75.016	-0.290	0.0	1.0
306	75.621	75.012	-0.291	0.0	1.0
312	75.621	75.009	-0.291	0.0	0.9
318	75.621	75.007	-0.291	0.0	0.9
324	75.621	75.004	-0.291	0.0	0.9
330	75.621	75.002	-0.291	0.0	0.9
336	75.621	75.001	-0.291	0.0	0.9
342	75.620	74.999	-0.292	0.0	0.9
348	75.619	74.997	-0.293	0.0	0.8
354	75.617	74.990	-0.295	0.0	0.6
360	75.614	74.982	-0.298	0.0	0.3
366	75.612	74.978	-0.300	0.0	0.1
372	75.612	74.974	-0.300	0.0	0.0
378	75.612	74.971	-0.300	0.0	0.0
384	75.612	74.968	-0.300	0.0	0.0
390	75.612	74.965	-0.300	0.0	0.0
396	75.612	74.962	-0.300	0.0	0.0
402	75.612	74.960	-0.300	0.0	0.0
408	75.612	74.958	-0.300	0.0	0.0
414	75.612	74.955	-0.300	0.0	0.0
420	75.612	74.954	-0.300	0.0	0.0
426	75.612	74.952	-0.300	0.0	0.0
432	75.612	74.950	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	75.738	-0.223	0.0	0.1
18	76.004	75.739	-0.221	0.0	0.2
24	76.005	75.740	-0.220	0.0	0.2
30	76.005	75.741	-0.220	0.0	0.2
36	76.005	75.741	-0.220	0.0	0.2
42	76.005	75.741	-0.220	0.0	0.2
48	76.005	75.741	-0.220	0.0	0.2
54	76.005	75.741	-0.220	0.0	0.2
60	76.005	75.741	-0.220	0.0	0.2
66	76.005	75.741	-0.220	0.0	0.3
72	76.006	75.742	-0.219	0.0	0.3
78	76.006	75.742	-0.219	0.0	0.3
84	76.006	75.743	-0.219	0.0	0.3
90	76.007	75.743	-0.218	0.0	0.3
96	76.008	75.745	-0.217	0.0	0.4
102	76.009	75.746	-0.216	0.0	0.4
108	76.010	75.747	-0.215	0.0	0.5
114	76.012	75.749	-0.213	0.0	0.5
120	76.013	75.751	-0.212	0.0	0.6
126	76.015	75.753	-0.210	0.0	0.7
132	76.017	75.755	-0.208	0.0	0.8
138	76.019	75.757	-0.206	0.0	0.9
144	76.021	75.760	-0.204	0.0	1.0
150	76.023	75.762	-0.202	0.0	1.1
156	76.023	75.764	-0.202	0.0	1.2
162	76.024	75.765	-0.201	0.0	1.2
168	76.024	75.766	-0.201	0.0	1.3
174	76.025	75.767	-0.200	0.0	1.4
180	76.025	75.767	-0.200	0.0	1.4
186	76.025	75.767	-0.200	0.0	1.4
192	76.025	75.767	-0.200	0.0	1.4
198	76.024	75.766	-0.201	0.0	1.3
204	76.024	75.766	-0.201	0.0	1.2
210	76.023	75.765	-0.202	0.0	1.2
216	76.023	75.763	-0.202	0.0	1.1
222	76.021	75.760	-0.204	0.0	1.0
228	76.019	75.758	-0.206	0.0	0.9
234	76.017	75.756	-0.208	0.0	0.8
240	76.015	75.753	-0.210	0.0	0.7
246	76.013	75.751	-0.212	0.0	0.6
252	76.012	75.749	-0.213	0.0	0.6
258	76.010	75.747	-0.215	0.0	0.5
264	76.009	75.746	-0.216	0.0	0.4
270	76.008	75.745	-0.217	0.0	0.4

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	76.007	75.744	-0.218	0.0	0.3
282	76.006	75.743	-0.219	0.0	0.3
288	76.006	75.742	-0.219	0.0	0.3
294	76.006	75.742	-0.219	0.0	0.3
300	76.005	75.741	-0.220	0.0	0.3
306	76.005	75.741	-0.220	0.0	0.2
312	76.005	75.741	-0.220	0.0	0.2
318	76.005	75.741	-0.220	0.0	0.2
324	76.005	75.741	-0.220	0.0	0.2
330	76.005	75.741	-0.220	0.0	0.2
336	76.005	75.741	-0.220	0.0	0.2
342	76.005	75.740	-0.220	0.0	0.2
348	76.004	75.739	-0.221	0.0	0.2
354	76.002	75.738	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	0.1
12	75.738	75.441	-0.297	0.0	0.2
18	75.739	75.444	-0.296	0.0	0.3
24	75.740	75.446	-0.295	0.0	0.3
30	75.741	75.448	-0.294	0.0	0.4
36	75.741	75.449	-0.294	0.0	0.4
42	75.741	75.449	-0.294	0.0	0.4
48	75.741	75.449	-0.294	0.0	0.4
54	75.741	75.449	-0.294	0.0	0.4
60	75.741	75.449	-0.294	0.0	0.4
66	75.741	75.449	-0.294	0.0	0.4
72	75.742	75.450	-0.293	0.0	0.4
78	75.742	75.450	-0.293	0.0	0.5
84	75.743	75.451	-0.292	0.0	0.5
90	75.743	75.453	-0.292	0.0	0.5
96	75.745	75.455	-0.290	0.0	0.6
102	75.746	75.458	-0.289	0.0	0.7
108	75.747	75.461	-0.288	0.0	0.8
114	75.749	75.465	-0.286	0.0	0.9
120	75.751	75.466	-0.284	0.0	1.0
126	75.753	75.468	-0.282	0.0	1.2
132	75.755	75.469	-0.280	0.0	1.3
138	75.757	75.471	-0.278	0.0	1.5
144	75.760	75.473	-0.275	0.0	1.6
150	75.762	75.474	-0.273	0.0	1.8
156	75.764	75.476	-0.271	0.0	1.9
162	75.765	75.477	-0.270	0.0	2.1
168	75.766	75.479	-0.269	0.0	2.2
174	75.767	75.480	-0.268	0.0	2.3
180	75.767	75.480	-0.268	0.0	2.4
186	75.767	75.481	-0.268	0.0	2.4
192	75.767	75.480	-0.268	0.0	2.4
198	75.766	75.479	-0.269	0.0	2.3
204	75.766	75.478	-0.269	0.0	2.2
210	75.765	75.476	-0.270	0.0	2.0
216	75.763	75.475	-0.272	0.0	1.9
222	75.760	75.473	-0.275	0.0	1.7
228	75.758	75.471	-0.277	0.0	1.6
234	75.756	75.470	-0.279	0.0	1.4
240	75.753	75.468	-0.282	0.0	1.3
246	75.751	75.467	-0.284	0.0	1.1
252	75.749	75.465	-0.286	0.0	1.0
258	75.747	75.462	-0.288	0.0	0.9
264	75.746	75.459	-0.289	0.0	0.8
270	75.745	75.456	-0.290	0.0	0.7

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.744	75.454	-0.291	0.0	0.6
282	75.743	75.452	-0.292	0.0	0.5
288	75.742	75.451	-0.293	0.0	0.5
294	75.742	75.450	-0.293	0.0	0.5
300	75.741	75.449	-0.294	0.0	0.4
306	75.741	75.449	-0.294	0.0	0.4
312	75.741	75.449	-0.294	0.0	0.4
318	75.741	75.449	-0.294	0.0	0.4
324	75.741	75.449	-0.294	0.0	0.4
330	75.741	75.449	-0.294	0.0	0.4
336	75.741	75.448	-0.294	0.0	0.4
342	75.740	75.447	-0.295	0.0	0.4
348	75.739	75.445	-0.296	0.0	0.3
354	75.738	75.442	-0.297	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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	75.441	75.153	-0.294	0.0	0.3
18	75.444	75.155	-0.291	0.0	0.5
24	75.446	75.156	-0.289	0.0	0.6
30	75.448	75.157	-0.287	0.0	0.7
36	75.449	75.158	-0.286	0.0	0.7
42	75.449	75.158	-0.286	0.0	0.8
48	75.449	75.158	-0.286	0.0	0.8
54	75.449	75.158	-0.286	0.0	0.8
60	75.449	75.158	-0.286	0.0	0.8
66	75.449	75.158	-0.286	0.0	0.8
72	75.450	75.159	-0.285	0.0	0.8
78	75.450	75.159	-0.285	0.0	0.8
84	75.451	75.160	-0.284	0.0	0.9
90	75.453	75.161	-0.282	0.0	1.0
96	75.455	75.162	-0.280	0.0	1.1
102	75.458	75.164	-0.277	0.0	1.2
108	75.461	75.166	-0.274	0.0	1.4
114	75.465	75.169	-0.270	0.0	1.6
120	75.466	75.172	-0.269	0.0	1.9
126	75.468	75.174	-0.267	0.0	2.1
132	75.469	75.178	-0.266	0.0	2.4
138	75.471	75.181	-0.264	0.0	2.7
144	75.473	75.184	-0.262	0.0	2.9
150	75.474	75.188	-0.261	0.0	3.2
156	75.476	75.191	-0.259	0.0	3.5
162	75.477	75.194	-0.258	0.0	3.8
168	75.479	75.195	-0.256	0.0	4.0
174	75.480	75.196	-0.255	0.0	4.2
180	75.480	75.196	-0.255	0.0	4.4
186	75.481	75.196	-0.254	0.0	4.4
192	75.480	75.196	-0.255	0.0	4.3
198	75.479	75.195	-0.256	0.0	4.2
204	75.478	75.194	-0.257	0.0	4.0
210	75.476	75.192	-0.259	0.0	3.7
216	75.475	75.189	-0.260	0.0	3.5
222	75.473	75.185	-0.262	0.0	3.2
228	75.471	75.182	-0.264	0.0	2.9
234	75.470	75.179	-0.265	0.0	2.6
240	75.468	75.175	-0.267	0.0	2.3
246	75.467	75.172	-0.268	0.0	2.0
252	75.465	75.170	-0.270	0.0	1.8
258	75.462	75.167	-0.273	0.0	1.6
264	75.459	75.165	-0.276	0.0	1.4
270	75.456	75.163	-0.279	0.0	1.2

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.454	75.161	-0.281	0.0	1.1
282	75.452	75.160	-0.283	0.0	1.0
288	75.451	75.159	-0.284	0.0	0.9
294	75.450	75.159	-0.285	0.0	0.8
300	75.449	75.158	-0.286	0.0	0.8
306	75.449	75.158	-0.286	0.0	0.8
312	75.449	75.158	-0.286	0.0	0.8
318	75.449	75.158	-0.286	0.0	0.8
324	75.449	75.158	-0.286	0.0	0.8
330	75.449	75.158	-0.286	0.0	0.8
336	75.448	75.158	-0.287	0.0	0.7
342	75.447	75.157	-0.288	0.0	0.7
348	75.445	75.156	-0.290	0.0	0.6
354	75.442	75.154	-0.293	0.0	0.4
360	75.438	75.151	-0.297	0.0	0.2
366	75.435	75.149	-0.300	0.0	0.1
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.954	-0.449	0.0	0.1
12	75.153	74.965	-0.446	0.0	0.4
18	75.155	74.971	-0.444	0.0	0.6
24	75.156	74.978	-0.443	0.0	0.8
30	75.157	74.983	-0.442	0.0	0.9
36	75.158	74.986	-0.441	0.0	1.0
42	75.158	74.987	-0.441	0.0	1.0
48	75.158	74.988	-0.441	0.0	1.0
54	75.158	74.988	-0.441	0.0	1.0
60	75.158	74.988	-0.441	0.0	1.0
66	75.158	74.988	-0.441	0.0	1.0
72	75.159	74.989	-0.440	0.0	1.1
78	75.159	74.990	-0.440	0.0	1.1
84	75.160	74.992	-0.439	0.0	1.2
90	75.161	74.995	-0.438	0.0	1.3
96	75.162	74.996	-0.437	0.0	1.4
102	75.164	74.998	-0.435	0.0	1.6
108	75.166	75.001	-0.433	0.0	1.8
114	75.169	75.005	-0.430	0.0	2.1
120	75.172	75.009	-0.427	0.0	2.4
126	75.174	75.012	-0.425	0.0	2.7
132	75.178	75.017	-0.421	0.0	3.1
138	75.181	75.022	-0.418	0.0	3.5
144	75.184	75.026	-0.415	0.0	3.8
150	75.188	75.031	-0.411	0.0	4.2
156	75.191	75.035	-0.408	0.0	4.6
162	75.194	75.039	-0.405	0.0	4.9
168	75.195	75.041	-0.404	0.0	5.3
174	75.196	75.043	-0.403	0.0	5.5
180	75.196	75.045	-0.403	0.0	5.7
186	75.196	75.046	-0.403	0.0	5.8
192	75.196	75.048	-0.403	0.0	5.7
198	75.195	75.051	-0.404	0.0	5.5
204	75.194	75.052	-0.405	0.0	5.2
210	75.192	75.054	-0.407	0.0	4.9
216	75.189	75.055	-0.410	0.0	4.6
222	75.185	75.055	-0.414	0.0	4.2
228	75.182	75.054	-0.417	0.0	3.8
234	75.179	75.053	-0.420	0.0	3.4
240	75.175	75.052	-0.424	0.0	3.1
246	75.172	75.050	-0.427	0.0	2.7
252	75.170	75.047	-0.429	0.0	2.4
258	75.167	75.044	-0.432	0.0	2.1
264	75.165	75.040	-0.434	0.0	1.9
270	75.163	75.036	-0.436	0.0	1.6

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.161	75.032	-0.438	0.0	1.4
282	75.160	75.028	-0.439	0.0	1.3
288	75.159	75.024	-0.440	0.0	1.2
294	75.159	75.019	-0.440	0.0	1.1
300	75.158	75.016	-0.441	0.0	1.1
306	75.158	75.012	-0.441	0.0	1.0
312	75.158	75.009	-0.441	0.0	1.0
318	75.158	75.007	-0.441	0.0	1.0
324	75.158	75.004	-0.441	0.0	1.0
330	75.158	75.002	-0.441	0.0	1.0
336	75.158	75.001	-0.441	0.0	1.0
342	75.157	74.999	-0.442	0.0	0.9
348	75.156	74.997	-0.443	0.0	0.8
354	75.154	74.990	-0.445	0.0	0.6
360	75.151	74.982	-0.448	0.0	0.3
366	75.149	74.978	-0.450	0.0	0.1
372	75.149	74.974	-0.450	0.0	0.0
378	75.149	74.971	-0.450	0.0	0.0
384	75.149	74.968	-0.450	0.0	0.0
390	75.149	74.965	-0.450	0.0	0.0
396	75.149	74.962	-0.450	0.0	0.0
402	75.149	74.960	-0.450	0.0	0.0
408	75.149	74.958	-0.450	0.0	0.0
414	75.149	74.955	-0.450	0.0	0.0
420	75.149	74.954	-0.450	0.0	0.0
426	75.149	74.952	-0.450	0.0	0.0
432	75.149	74.950	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.954	74.929	-0.445	0.0	0.1
12	74.965	74.930	-0.434	0.0	0.5
18	74.971	74.931	-0.428	0.0	1.0
24	74.978	74.932	-0.421	0.0	1.3
30	74.983	74.934	-0.416	0.0	1.6
36	74.986	74.936	-0.413	0.0	1.8
42	74.987	74.938	-0.412	0.0	1.9
48	74.988	74.940	-0.411	0.0	2.0
54	74.988	74.941	-0.411	0.0	2.0
60	74.988	74.943	-0.411	0.0	2.0
66	74.988	74.945	-0.411	0.0	2.0
72	74.989	74.946	-0.410	0.0	2.0
78	74.990	74.948	-0.409	0.0	2.1
84	74.992	74.949	-0.407	0.0	2.2
90	74.995	74.950	-0.404	0.0	2.3
96	74.996	74.952	-0.403	0.0	2.6
102	74.998	74.954	-0.401	0.0	2.9
108	75.001	74.956	-0.398	0.0	3.2
114	75.005	74.959	-0.394	0.0	3.8
120	75.009	74.963	-0.390	0.0	4.4
126	75.012	74.966	-0.387	0.0	5.0
132	75.017	74.971	-0.382	0.0	5.7
138	75.022	74.975	-0.377	0.0	6.5
144	75.026	74.981	-0.373	0.0	7.2
150	75.031	74.986	-0.368	0.0	7.9
156	75.035	74.992	-0.364	0.0	8.6
162	75.039	74.998	-0.360	0.0	9.3
168	75.041	75.005	-0.358	0.0	9.9
174	75.043	75.011	-0.356	0.0	10.5
180	75.045	75.017	-0.354	0.0	10.9
186	75.046	75.026	-0.353	0.0	11.1
192	75.048	75.031	-0.351	0.0	10.9
198	75.051	75.036	-0.348	0.0	10.5
204	75.052	75.041	-0.347	0.0	10.0
210	75.054	75.044	-0.345	0.0	9.4
216	75.055	75.046	-0.344	0.0	8.8
222	75.055	75.048	-0.344	0.0	8.0
228	75.054	75.049	-0.345	0.0	7.3
234	75.053	75.049	-0.346	0.0	6.6
240	75.052	75.048	-0.347	0.0	5.9
246	75.050	75.046	-0.349	0.0	5.3
252	75.047	75.044	-0.352	0.0	4.7
258	75.044	75.041	-0.355	0.0	4.1
264	75.040	75.038	-0.359	0.0	3.6
270	75.036	75.034	-0.363	0.0	3.2

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.032	75.030	-0.367	0.0	2.8
282	75.028	75.026	-0.371	0.0	2.5
288	75.024	75.021	-0.375	0.0	2.3
294	75.019	75.017	-0.380	0.0	2.2
300	75.016	75.013	-0.383	0.0	2.1
306	75.012	75.009	-0.387	0.0	2.0
312	75.009	75.006	-0.390	0.0	2.0
318	75.007	75.002	-0.392	0.0	2.0
324	75.004	74.999	-0.395	0.0	2.0
330	75.002	74.996	-0.397	0.0	2.0
336	75.001	74.994	-0.398	0.0	1.9
342	74.999	74.992	-0.400	0.0	1.8
348	74.997	74.990	-0.402	0.0	1.7
354	74.990	74.985	-0.409	0.0	1.3
360	74.982	74.981	-0.417	0.0	0.7
366	74.978	74.978	-0.421	0.0	0.3
372	74.974	74.974	-0.425	0.0	0.1
378	74.971	74.971	-0.428	0.0	0.0
384	74.968	74.968	-0.431	0.0	0.0
390	74.965	74.965	-0.434	0.0	0.0
396	74.962	74.962	-0.437	0.0	0.0
402	74.960	74.960	-0.439	0.0	0.0
408	74.958	74.958	-0.441	0.0	0.0
414	74.955	74.955	-0.444	0.0	0.0
420	74.954	74.954	-0.445	0.0	0.0
426	74.952	74.952	-0.447	0.0	0.0
432	74.950	74.950	-0.449	0.0	0.0
438	74.949	74.949	-0.450	0.0	0.0
444	74.949	74.947	-0.450	0.0	0.0
450	74.949	74.946	-0.450	0.0	0.0
456	74.949	74.945	-0.450	0.0	0.0
462	74.949	74.944	-0.450	0.0	0.0
468	74.949	74.943	-0.450	0.0	0.0
474	74.949	74.942	-0.450	0.0	0.0
480	74.949	74.941	-0.450	0.0	0.0
486	74.949	74.940	-0.450	0.0	0.0
492	74.949	74.939	-0.450	0.0	0.0
498	74.949	74.938	-0.450	0.0	0.0
504	74.949	74.938	-0.450	0.0	0.0
510	74.949	74.937	-0.450	0.0	0.0
516	74.949	74.937	-0.450	0.0	0.0
522	74.949	74.936	-0.450	0.0	0.0
528	74.949	74.935	-0.450	0.0	0.0
534	74.949	74.935	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.934	-0.450	0.0	0.0
552	74.949	74.934	-0.450	0.0	0.0
558	74.949	74.933	-0.450	0.0	0.0
564	74.949	74.933	-0.450	0.0	0.0
570	74.949	74.933	-0.450	0.0	0.0
576	74.949	74.932	-0.450	0.0	0.0
582	74.949	74.932	-0.450	0.0	0.0
588	74.949	74.932	-0.450	0.0	0.0
594	74.949	74.932	-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	74.931	-0.450	0.0	0.0
624	74.949	74.931	-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	74.930	-0.450	0.0	0.0
690	74.949	74.930	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.931	74.917	-0.448	0.0	0.1
24	74.932	74.922	-0.447	0.0	0.1
30	74.934	74.927	-0.445	0.0	0.2
36	74.936	74.931	-0.443	0.0	0.2
42	74.938	74.934	-0.441	0.0	0.3
48	74.940	74.936	-0.439	0.0	0.3
54	74.941	74.938	-0.438	0.0	0.3
60	74.943	74.939	-0.436	0.0	0.4
66	74.945	74.941	-0.434	0.0	0.4
72	74.946	74.943	-0.433	0.0	0.5
78	74.948	74.944	-0.431	0.0	0.5
84	74.949	74.946	-0.430	0.0	0.5
90	74.950	74.947	-0.429	0.0	0.6
96	74.952	74.948	-0.427	0.0	0.6
102	74.954	74.950	-0.425	0.0	0.7
108	74.956	74.952	-0.423	0.0	0.7
114	74.959	74.955	-0.420	0.0	0.8
120	74.963	74.958	-0.416	0.0	1.0
126	74.966	74.962	-0.413	0.0	1.1
132	74.971	74.966	-0.408	0.0	1.3
138	74.975	74.971	-0.404	0.0	1.5
144	74.981	74.977	-0.398	0.0	1.7
150	74.986	74.983	-0.393	0.0	2.0
156	74.992	74.990	-0.387	0.0	2.2
162	74.998	74.996	-0.381	0.0	2.4
168	75.005	75.003	-0.374	0.0	2.6
174	75.011	75.009	-0.368	0.0	2.8
180	75.017	75.013	-0.362	0.0	3.5
186	75.026	75.020	-0.353	0.0	2.4
192	75.031	75.032	-0.348	0.0	3.1
198	75.036	75.038	-0.343	0.0	3.2
204	75.041	75.043	-0.338	0.0	3.2
210	75.044	75.043	-0.335	0.0	3.3
216	75.046	75.045	-0.333	0.0	3.3
222	75.048	75.050	-0.331	0.0	3.1
228	75.049	75.051	-0.330	0.0	3.1
234	75.049	75.051	-0.330	0.0	3.1
240	75.048	75.050	-0.331	0.0	3.0
246	75.046	75.049	-0.333	0.0	3.0
252	75.044	75.043	-0.335	0.0	3.2
258	75.041	75.039	-0.338	0.0	3.1
264	75.038	75.036	-0.341	0.0	3.1
270	75.034	75.032	-0.345	0.0	3.0

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.030	75.030	-0.349	0.0	2.9
282	75.026	75.026	-0.353	0.0	2.9
288	75.021	75.021	-0.358	0.0	2.9
294	75.017	75.017	-0.362	0.0	2.8
300	75.013	75.012	-0.366	0.0	2.7
306	75.009	75.008	-0.370	0.0	2.6
312	75.006	75.005	-0.373	0.0	2.5
318	75.002	75.004	-0.377	0.0	2.2
324	74.999	74.998	-0.380	0.0	2.3
330	74.996	74.995	-0.383	0.0	2.2
336	74.994	74.993	-0.385	0.0	2.1
342	74.992	74.990	-0.387	0.0	2.0
348	74.990	74.985	-0.389	0.0	1.9
354	74.985	74.977	-0.394	0.0	2.4
360	74.981	74.978	-0.398	0.0	1.3
366	74.978	74.975	-0.401	0.0	1.4
372	74.974	74.971	-0.405	0.0	1.3
378	74.971	74.967	-0.408	0.0	1.2
384	74.968	74.965	-0.411	0.0	1.1
390	74.965	74.962	-0.414	0.0	1.0
396	74.962	74.959	-0.417	0.0	0.9
402	74.960	74.957	-0.419	0.0	0.8
408	74.958	74.955	-0.421	0.0	0.7
414	74.955	74.953	-0.424	0.0	0.7
420	74.954	74.951	-0.425	0.0	0.6
426	74.952	74.949	-0.427	0.0	0.6
432	74.950	74.948	-0.429	0.0	0.5
438	74.949	74.946	-0.430	0.0	0.5
444	74.947	74.945	-0.432	0.0	0.4
450	74.946	74.944	-0.433	0.0	0.4
456	74.945	74.943	-0.434	0.0	0.4
462	74.944	74.942	-0.435	0.0	0.3
468	74.943	74.940	-0.436	0.0	0.3
474	74.942	74.939	-0.437	0.0	0.3
480	74.941	74.939	-0.438	0.0	0.3
486	74.940	74.938	-0.439	0.0	0.3
492	74.939	74.937	-0.440	0.0	0.2
498	74.938	74.936	-0.441	0.0	0.2
504	74.938	74.935	-0.441	0.0	0.2
510	74.937	74.935	-0.442	0.0	0.2
516	74.937	74.934	-0.442	0.0	0.2
522	74.936	74.933	-0.443	0.0	0.2
528	74.935	74.933	-0.444	0.0	0.2
534	74.935	74.932	-0.444	0.0	0.2
540	74.934	74.931	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.934	74.931	-0.445	0.0	0.1
552	74.934	74.930	-0.445	0.0	0.1
558	74.933	74.930	-0.446	0.0	0.1
564	74.933	74.929	-0.446	0.0	0.1
570	74.933	74.929	-0.446	0.0	0.1
576	74.932	74.928	-0.447	0.0	0.1
582	74.932	74.928	-0.447	0.0	0.1
588	74.932	74.927	-0.447	0.0	0.1
594	74.932	74.927	-0.447	0.0	0.1
600	74.931	74.927	-0.448	0.0	0.1
606	74.931	74.926	-0.448	0.0	0.1
612	74.931	74.926	-0.448	0.0	0.1
618	74.931	74.925	-0.448	0.0	0.1
624	74.931	74.925	-0.448	0.0	0.1
630	74.930	74.925	-0.449	0.0	0.1
636	74.930	74.924	-0.449	0.0	0.0
642	74.930	74.924	-0.449	0.0	0.0
648	74.930	74.924	-0.449	0.0	0.0
654	74.930	74.923	-0.449	0.0	0.0
660	74.930	74.923	-0.449	0.0	0.0
666	74.930	74.923	-0.449	0.0	0.0
672	74.930	74.922	-0.449	0.0	0.0
678	74.930	74.922	-0.449	0.0	0.0
684	74.930	74.922	-0.449	0.0	0.0
690	74.930	74.921	-0.449	0.0	0.0
696	74.929	74.921	-0.450	0.0	0.0
702	74.929	74.921	-0.450	0.0	0.0
708	74.929	74.921	-0.450	0.0	0.0
714	74.929	74.920	-0.450	0.0	0.0
720	74.929	74.920	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.922	74.718	-0.442	0.0	0.0
30	74.927	74.719	-0.437	0.0	0.1
36	74.931	74.720	-0.433	0.0	0.1
42	74.934	74.721	-0.430	0.0	0.2
48	74.936	74.722	-0.428	0.0	0.2
54	74.938	74.722	-0.426	0.0	0.3
60	74.939	74.722	-0.425	0.0	0.3
66	74.941	74.723	-0.423	0.0	0.4
72	74.943	74.724	-0.421	0.0	0.4
78	74.944	74.724	-0.420	0.0	0.4
84	74.946	74.725	-0.418	0.0	0.5
90	74.947	74.726	-0.417	0.0	0.5
96	74.948	74.728	-0.416	0.0	0.6
102	74.950	74.729	-0.414	0.0	0.6
108	74.952	74.731	-0.412	0.0	0.7
114	74.955	74.733	-0.409	0.0	0.8
120	74.958	74.736	-0.406	0.0	0.8
126	74.962	74.739	-0.402	0.0	1.0
132	74.966	74.742	-0.398	0.0	1.1
138	74.971	74.746	-0.393	0.0	1.3
144	74.977	74.750	-0.387	0.0	1.5
150	74.983	74.755	-0.381	0.0	1.7
156	74.990	74.759	-0.374	0.0	2.0
162	74.996	74.761	-0.368	0.0	2.2
168	75.003	74.762	-0.361	0.0	2.4
174	75.009	74.763	-0.355	0.0	2.6
180	75.013	74.764	-0.351	0.0	2.7
186	75.020	74.764	-0.344	0.0	2.9
192	75.032	74.764	-0.332	0.0	2.9
198	75.038	74.764	-0.326	0.0	2.9
204	75.043	74.763	-0.321	0.0	2.9
210	75.043	74.763	-0.321	0.0	2.9
216	75.045	74.762	-0.319	0.0	2.9
222	75.050	74.762	-0.314	0.0	2.9
228	75.051	74.761	-0.313	0.0	2.9
234	75.051	74.761	-0.313	0.0	2.9
240	75.050	74.760	-0.314	0.0	2.9
246	75.049	74.760	-0.315	0.0	2.9
252	75.043	74.759	-0.321	0.0	2.9
258	75.039	74.759	-0.325	0.0	2.9
264	75.036	74.757	-0.328	0.0	2.9
270	75.032	74.756	-0.332	0.0	2.9

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	75.030	74.755	-0.334	0.0	2.9
282	75.026	74.755	-0.338	0.0	2.9
288	75.021	74.754	-0.343	0.0	2.9
294	75.017	74.753	-0.347	0.0	2.8
300	75.012	74.751	-0.352	0.0	2.7
306	75.008	74.750	-0.356	0.0	2.6
312	75.005	74.749	-0.359	0.0	2.5
318	75.004	74.747	-0.360	0.0	2.4
324	74.998	74.747	-0.366	0.0	2.4
330	74.995	74.746	-0.369	0.0	2.3
336	74.993	74.744	-0.371	0.0	2.2
342	74.990	74.744	-0.374	0.0	2.1
348	74.985	74.742	-0.379	0.0	2.0
354	74.977	74.739	-0.387	0.0	1.7
360	74.978	74.735	-0.386	0.0	1.8
366	74.975	74.733	-0.389	0.0	1.6
372	74.971	74.731	-0.393	0.0	1.4
378	74.967	74.729	-0.397	0.0	1.3
384	74.965	74.728	-0.399	0.0	1.2
390	74.962	74.727	-0.402	0.0	1.1
396	74.959	74.725	-0.405	0.0	1.0
402	74.957	74.724	-0.407	0.0	0.9
408	74.955	74.723	-0.409	0.0	0.8
414	74.953	74.723	-0.411	0.0	0.7
420	74.951	74.722	-0.413	0.0	0.7
426	74.949	74.721	-0.415	0.0	0.6
432	74.948	74.721	-0.416	0.0	0.6
438	74.946	74.720	-0.418	0.0	0.5
444	74.945	74.720	-0.419	0.0	0.5
450	74.944	74.719	-0.420	0.0	0.4
456	74.943	74.719	-0.421	0.0	0.4
462	74.942	74.719	-0.422	0.0	0.4
468	74.940	74.718	-0.424	0.0	0.4
474	74.939	74.718	-0.425	0.0	0.3
480	74.939	74.718	-0.425	0.0	0.3
486	74.938	74.717	-0.426	0.0	0.3
492	74.937	74.717	-0.427	0.0	0.3
498	74.936	74.717	-0.428	0.0	0.3
504	74.935	74.717	-0.429	0.0	0.2
510	74.935	74.717	-0.429	0.0	0.2
516	74.934	74.716	-0.430	0.0	0.2
522	74.933	74.716	-0.431	0.0	0.2
528	74.933	74.716	-0.431	0.0	0.2
534	74.932	74.716	-0.432	0.0	0.2
540	74.931	74.716	-0.433	0.0	0.2

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.931	74.716	-0.433	0.0	0.2
552	74.930	74.716	-0.434	0.0	0.1
558	74.930	74.716	-0.434	0.0	0.1
564	74.929	74.716	-0.435	0.0	0.1
570	74.929	74.715	-0.435	0.0	0.1
576	74.928	74.715	-0.436	0.0	0.1
582	74.928	74.715	-0.436	0.0	0.1
588	74.927	74.715	-0.437	0.0	0.1
594	74.927	74.715	-0.437	0.0	0.1
600	74.927	74.715	-0.437	0.0	0.1
606	74.926	74.715	-0.438	0.0	0.1
612	74.926	74.715	-0.438	0.0	0.1
618	74.925	74.715	-0.439	0.0	0.1
624	74.925	74.715	-0.439	0.0	0.1
630	74.925	74.715	-0.439	0.0	0.1
636	74.924	74.715	-0.440	0.0	0.1
642	74.924	74.715	-0.440	0.0	0.1
648	74.924	74.715	-0.440	0.0	0.1
654	74.923	74.715	-0.441	0.0	0.0
660	74.923	74.715	-0.441	0.0	0.0
666	74.923	74.714	-0.441	0.0	0.0
672	74.922	74.714	-0.442	0.0	0.0
678	74.922	74.714	-0.442	0.0	0.0
684	74.922	74.714	-0.442	0.0	0.0
690	74.921	74.714	-0.443	0.0	0.0
696	74.921	74.714	-0.443	0.0	0.0
702	74.921	74.714	-0.443	0.0	0.0
708	74.921	74.714	-0.443	0.0	0.0
714	74.920	74.714	-0.444	0.0	0.0
720	74.920	74.714	-0.444	0.0	0.0

RPS P&D		Page 44
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.616	-0.449	0.0	0.0
12	74.716	74.619	-0.448	0.0	0.1
18	74.717	74.622	-0.447	0.0	0.2
24	74.718	74.624	-0.446	0.0	0.3
30	74.719	74.625	-0.445	0.0	0.4
36	74.720	74.627	-0.444	0.0	0.5
42	74.721	74.627	-0.443	0.0	0.6
48	74.722	74.628	-0.442	0.0	0.6
54	74.722	74.628	-0.442	0.0	0.6
60	74.722	74.629	-0.442	0.0	0.7
66	74.723	74.629	-0.441	0.0	0.7
72	74.724	74.630	-0.440	0.0	0.8
78	74.724	74.631	-0.440	0.0	0.8
84	74.725	74.632	-0.439	0.0	0.9
90	74.726	74.634	-0.438	0.0	1.0
96	74.728	74.637	-0.436	0.0	1.1
102	74.729	74.639	-0.435	0.0	1.2
108	74.731	74.642	-0.433	0.0	1.4
114	74.733	74.647	-0.431	0.0	1.6
120	74.736	74.651	-0.428	0.0	1.8
126	74.739	74.656	-0.425	0.0	2.0
132	74.742	74.660	-0.422	0.0	2.3
138	74.746	74.662	-0.418	0.0	2.6
144	74.750	74.664	-0.414	0.0	2.9
150	74.755	74.666	-0.409	0.0	3.3
156	74.759	74.668	-0.405	0.0	3.7
162	74.761	74.670	-0.403	0.0	4.1
168	74.762	74.672	-0.402	0.0	4.4
174	74.763	74.673	-0.401	0.0	4.7
180	74.764	74.674	-0.400	0.0	4.9
186	74.764	74.675	-0.400	0.0	5.1
192	74.764	74.675	-0.400	0.0	5.1
198	74.764	74.674	-0.400	0.0	5.0
204	74.763	74.673	-0.401	0.0	4.9
210	74.763	74.672	-0.401	0.0	4.8
216	74.762	74.670	-0.402	0.0	4.7
222	74.762	74.669	-0.402	0.0	4.5
228	74.761	74.668	-0.403	0.0	4.4
234	74.761	74.666	-0.403	0.0	4.2
240	74.760	74.665	-0.404	0.0	4.1
246	74.760	74.664	-0.404	0.0	4.0
252	74.759	74.663	-0.405	0.0	3.8
258	74.759	74.662	-0.405	0.0	3.7
264	74.757	74.661	-0.407	0.0	3.6
270	74.756	74.660	-0.408	0.0	3.5

RPS P&D		Page 45
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.755	74.659	-0.409	0.0	3.5
282	74.755	74.658	-0.409	0.0	3.4
288	74.754	74.657	-0.410	0.0	3.3
294	74.753	74.655	-0.411	0.0	3.3
300	74.751	74.654	-0.413	0.0	3.2
306	74.750	74.653	-0.414	0.0	3.1
312	74.749	74.652	-0.415	0.0	3.0
318	74.747	74.651	-0.417	0.0	2.9
324	74.747	74.650	-0.417	0.0	2.8
330	74.746	74.649	-0.418	0.0	2.7
336	74.744	74.647	-0.420	0.0	2.6
342	74.744	74.646	-0.420	0.0	2.5
348	74.742	74.643	-0.422	0.0	2.3
354	74.739	74.638	-0.425	0.0	2.0
360	74.735	74.634	-0.429	0.0	1.8
366	74.733	74.631	-0.431	0.0	1.6
372	74.731	74.629	-0.433	0.0	1.5
378	74.729	74.627	-0.435	0.0	1.3
384	74.728	74.626	-0.436	0.0	1.2
390	74.727	74.625	-0.437	0.0	1.1
396	74.725	74.624	-0.439	0.0	1.0
402	74.724	74.623	-0.440	0.0	0.9
408	74.723	74.622	-0.441	0.0	0.8
414	74.723	74.622	-0.441	0.0	0.7
420	74.722	74.621	-0.442	0.0	0.7
426	74.721	74.620	-0.443	0.0	0.6
432	74.721	74.620	-0.443	0.0	0.6
438	74.720	74.619	-0.444	0.0	0.5
444	74.720	74.619	-0.444	0.0	0.5
450	74.719	74.619	-0.445	0.0	0.5
456	74.719	74.618	-0.445	0.0	0.4
462	74.719	74.618	-0.445	0.0	0.4
468	74.718	74.618	-0.446	0.0	0.4
474	74.718	74.618	-0.446	0.0	0.3
480	74.718	74.617	-0.446	0.0	0.3
486	74.717	74.617	-0.447	0.0	0.3
492	74.717	74.617	-0.447	0.0	0.3
498	74.717	74.617	-0.447	0.0	0.3
504	74.717	74.616	-0.447	0.0	0.2
510	74.717	74.616	-0.447	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	74.616	-0.448	0.0	0.2

RPS P&D		Page 46
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.616	-0.448	0.0	0.2
552	74.716	74.616	-0.448	0.0	0.1
558	74.716	74.615	-0.448	0.0	0.1
564	74.716	74.615	-0.448	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	74.615	-0.449	0.0	0.1
648	74.715	74.615	-0.449	0.0	0.1
654	74.715	74.614	-0.449	0.0	0.0
660	74.715	74.614	-0.449	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

RPS P&D		Page 47
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.616	74.199	-0.448	0.0	0.1
12	74.619	74.206	-0.445	0.0	0.4
18	74.622	74.213	-0.442	0.0	0.7
24	74.624	74.218	-0.440	0.0	0.9
30	74.625	74.221	-0.439	0.0	1.1
36	74.627	74.223	-0.437	0.0	1.2
42	74.627	74.225	-0.437	0.0	1.3
48	74.628	74.226	-0.436	0.0	1.4
54	74.628	74.226	-0.436	0.0	1.4
60	74.629	74.226	-0.435	0.0	1.4
66	74.629	74.227	-0.435	0.0	1.5
72	74.630	74.229	-0.434	0.0	1.6
78	74.631	74.231	-0.433	0.0	1.6
84	74.632	74.233	-0.432	0.0	1.8
90	74.634	74.237	-0.430	0.0	1.9
96	74.637	74.241	-0.427	0.0	2.2
102	74.639	74.242	-0.425	0.0	2.4
108	74.642	74.245	-0.422	0.0	2.7
114	74.647	74.248	-0.417	0.0	3.1
120	74.651	74.251	-0.413	0.0	3.5
126	74.656	74.254	-0.408	0.0	4.0
132	74.660	74.258	-0.404	0.0	4.6
138	74.662	74.262	-0.402	0.0	5.2
144	74.664	74.266	-0.400	0.0	5.8
150	74.666	74.270	-0.398	0.0	6.4
156	74.668	74.274	-0.396	0.0	7.1
162	74.670	74.278	-0.394	0.0	7.7
168	74.672	74.282	-0.392	0.0	8.3
174	74.673	74.285	-0.391	0.0	8.8
180	74.674	74.286	-0.390	0.0	9.2
186	74.675	74.287	-0.389	0.0	9.4
192	74.675	74.286	-0.389	0.0	9.3
198	74.674	74.285	-0.390	0.0	9.1
204	74.673	74.283	-0.391	0.0	8.8
210	74.672	74.280	-0.392	0.0	8.4
216	74.670	74.277	-0.394	0.0	8.0
222	74.669	74.274	-0.395	0.0	7.6
228	74.668	74.271	-0.396	0.0	7.2
234	74.666	74.270	-0.398	0.0	6.8
240	74.665	74.268	-0.399	0.0	6.3
246	74.664	74.266	-0.400	0.0	6.0
252	74.663	74.265	-0.401	0.0	5.6
258	74.662	74.263	-0.402	0.0	5.3
264	74.661	74.262	-0.403	0.0	5.0
270	74.660	74.261	-0.404	0.0	4.7

RPS P&D		Page 48
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.659	74.260	-0.405	0.0	4.5
282	74.658	74.259	-0.406	0.0	4.4
288	74.657	74.259	-0.407	0.0	4.2
294	74.655	74.259	-0.409	0.0	4.1
300	74.654	74.258	-0.410	0.0	4.0
306	74.653	74.258	-0.411	0.0	3.9
312	74.652	74.258	-0.412	0.0	3.8
318	74.651	74.257	-0.413	0.0	3.7
324	74.650	74.257	-0.414	0.0	3.6
330	74.649	74.256	-0.415	0.0	3.5
336	74.647	74.256	-0.417	0.0	3.3
342	74.646	74.255	-0.418	0.0	3.2
348	74.643	74.254	-0.421	0.0	3.0
354	74.638	74.249	-0.426	0.0	2.5
360	74.634	74.246	-0.430	0.0	2.2
366	74.631	74.243	-0.433	0.0	1.8
372	74.629	74.241	-0.435	0.0	1.5
378	74.627	74.239	-0.437	0.0	1.4
384	74.626	74.237	-0.438	0.0	1.2
390	74.625	74.234	-0.439	0.0	1.1
396	74.624	74.232	-0.440	0.0	1.0
402	74.623	74.229	-0.441	0.0	0.9
408	74.622	74.227	-0.442	0.0	0.8
414	74.622	74.224	-0.442	0.0	0.8
420	74.621	74.222	-0.443	0.0	0.7
426	74.620	74.220	-0.444	0.0	0.6
432	74.620	74.218	-0.444	0.0	0.6
438	74.619	74.216	-0.445	0.0	0.5
444	74.619	74.214	-0.445	0.0	0.5
450	74.619	74.213	-0.445	0.0	0.5
456	74.618	74.211	-0.446	0.0	0.4
462	74.618	74.209	-0.446	0.0	0.4
468	74.618	74.208	-0.446	0.0	0.4
474	74.618	74.207	-0.446	0.0	0.4
480	74.617	74.205	-0.447	0.0	0.3
486	74.617	74.204	-0.447	0.0	0.3
492	74.617	74.203	-0.447	0.0	0.3
498	74.617	74.202	-0.447	0.0	0.3
504	74.616	74.202	-0.448	0.0	0.2
510	74.616	74.201	-0.448	0.0	0.2
516	74.616	74.200	-0.448	0.0	0.2
522	74.616	74.200	-0.448	0.0	0.2
528	74.616	74.199	-0.448	0.0	0.2
534	74.616	74.199	-0.448	0.0	0.2
540	74.616	74.199	-0.448	0.0	0.2

RPS P&D		Page 49
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.616	74.198	-0.448	0.0	0.2
552	74.616	74.198	-0.448	0.0	0.2
558	74.615	74.198	-0.449	0.0	0.1
564	74.615	74.198	-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	74.197	-0.449	0.0	0.1
588	74.615	74.197	-0.449	0.0	0.1
594	74.615	74.197	-0.449	0.0	0.1
600	74.615	74.197	-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	74.615	74.196	-0.449	0.0	0.1
648	74.615	74.196	-0.449	0.0	0.1
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	74.196	-0.450	0.0	0.0
684	74.614	74.196	-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

RPS P&D		Page 50
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.524	-0.222	0.0	0.2
24	74.954	74.525	-0.221	0.0	0.2
30	74.954	74.525	-0.221	0.0	0.3
36	74.955	74.525	-0.220	0.0	0.3
42	74.955	74.525	-0.220	0.0	0.3
48	74.955	74.525	-0.220	0.0	0.3
54	74.955	74.525	-0.220	0.0	0.3
60	74.955	74.525	-0.220	0.0	0.3
66	74.955	74.526	-0.220	0.0	0.3
72	74.955	74.526	-0.220	0.0	0.3
78	74.955	74.526	-0.220	0.0	0.3
84	74.956	74.527	-0.219	0.0	0.3
90	74.956	74.527	-0.219	0.0	0.4
96	74.957	74.528	-0.218	0.0	0.4
102	74.958	74.529	-0.217	0.0	0.5
108	74.959	74.531	-0.216	0.0	0.6
114	74.960	74.532	-0.215	0.0	0.6
120	74.962	74.534	-0.213	0.0	0.7
126	74.963	74.535	-0.212	0.0	0.8
132	74.965	74.537	-0.210	0.0	0.9
138	74.966	74.539	-0.209	0.0	1.0
144	74.968	74.541	-0.207	0.0	1.1
150	74.970	74.544	-0.205	0.0	1.2
156	74.971	74.545	-0.204	0.0	1.3
162	74.973	74.547	-0.202	0.0	1.4
168	74.973	74.549	-0.202	0.0	1.5
174	74.973	74.550	-0.202	0.0	1.6
180	74.974	74.550	-0.201	0.0	1.6
186	74.974	74.550	-0.201	0.0	1.6
192	74.973	74.550	-0.202	0.0	1.6
198	74.973	74.549	-0.202	0.0	1.5
204	74.973	74.547	-0.202	0.0	1.4
210	74.971	74.546	-0.204	0.0	1.4
216	74.970	74.544	-0.205	0.0	1.3
222	74.968	74.542	-0.207	0.0	1.1
228	74.966	74.540	-0.209	0.0	1.0
234	74.965	74.538	-0.210	0.0	0.9
240	74.963	74.536	-0.212	0.0	0.8
246	74.962	74.534	-0.213	0.0	0.7
252	74.960	74.532	-0.215	0.0	0.7
258	74.959	74.531	-0.216	0.0	0.6
264	74.958	74.529	-0.217	0.0	0.5
270	74.957	74.528	-0.218	0.0	0.4

RPS P&D		Page 51
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.956	74.527	-0.219	0.0	0.4
282	74.956	74.527	-0.219	0.0	0.4
288	74.955	74.526	-0.220	0.0	0.3
294	74.955	74.526	-0.220	0.0	0.3
300	74.955	74.526	-0.220	0.0	0.3
306	74.955	74.526	-0.220	0.0	0.3
312	74.955	74.525	-0.220	0.0	0.3
318	74.955	74.525	-0.220	0.0	0.3
324	74.955	74.525	-0.220	0.0	0.3
330	74.955	74.525	-0.220	0.0	0.3
336	74.954	74.525	-0.221	0.0	0.3
342	74.954	74.525	-0.221	0.0	0.2
348	74.953	74.524	-0.222	0.0	0.2
354	74.952	74.523	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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

RPS P&D		Page 53
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.199	-0.299	0.0	0.1
12	74.522	74.206	-0.298	0.0	0.2
18	74.524	74.213	-0.296	0.0	0.3
24	74.525	74.218	-0.295	0.0	0.3
30	74.525	74.221	-0.295	0.0	0.4
36	74.525	74.223	-0.295	0.0	0.4
42	74.525	74.225	-0.295	0.0	0.4
48	74.525	74.226	-0.295	0.0	0.4
54	74.525	74.226	-0.295	0.0	0.4
60	74.525	74.226	-0.295	0.0	0.4
66	74.526	74.227	-0.294	0.0	0.4
72	74.526	74.229	-0.294	0.0	0.4
78	74.526	74.231	-0.294	0.0	0.4
84	74.527	74.233	-0.293	0.0	0.5
90	74.527	74.237	-0.293	0.0	0.5
96	74.528	74.241	-0.292	0.0	0.6
102	74.529	74.242	-0.291	0.0	0.7
108	74.531	74.245	-0.289	0.0	0.7
114	74.532	74.248	-0.288	0.0	0.9
120	74.534	74.251	-0.286	0.0	1.0
126	74.535	74.254	-0.285	0.0	1.1
132	74.537	74.258	-0.283	0.0	1.3
138	74.539	74.262	-0.281	0.0	1.4
144	74.541	74.266	-0.279	0.0	1.5
150	74.544	74.270	-0.276	0.0	1.7
156	74.545	74.274	-0.275	0.0	1.8
162	74.547	74.278	-0.273	0.0	2.0
168	74.549	74.282	-0.271	0.0	2.1
174	74.550	74.285	-0.270	0.0	2.2
180	74.550	74.286	-0.270	0.0	2.3
186	74.550	74.287	-0.270	0.0	2.3
192	74.550	74.286	-0.270	0.0	2.2
198	74.549	74.285	-0.271	0.0	2.1
204	74.547	74.283	-0.273	0.0	2.0
210	74.546	74.280	-0.274	0.0	1.9
216	74.544	74.277	-0.276	0.0	1.8
222	74.542	74.274	-0.278	0.0	1.6
228	74.540	74.271	-0.280	0.0	1.5
234	74.538	74.270	-0.282	0.0	1.3
240	74.536	74.268	-0.284	0.0	1.2
246	74.534	74.266	-0.286	0.0	1.0
252	74.532	74.265	-0.288	0.0	0.9
258	74.531	74.263	-0.289	0.0	0.8
264	74.529	74.262	-0.291	0.0	0.7
270	74.528	74.261	-0.292	0.0	0.6

RPS P&D		Page 54
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.527	74.260	-0.293	0.0	0.5
282	74.527	74.259	-0.293	0.0	0.5
288	74.526	74.259	-0.294	0.0	0.5
294	74.526	74.259	-0.294	0.0	0.4
300	74.526	74.258	-0.294	0.0	0.4
306	74.526	74.258	-0.294	0.0	0.4
312	74.525	74.258	-0.295	0.0	0.4
318	74.525	74.257	-0.295	0.0	0.4
324	74.525	74.257	-0.295	0.0	0.4
330	74.525	74.256	-0.295	0.0	0.4
336	74.525	74.256	-0.295	0.0	0.4
342	74.525	74.255	-0.295	0.0	0.4
348	74.524	74.254	-0.296	0.0	0.3
354	74.523	74.249	-0.297	0.0	0.2
360	74.521	74.246	-0.299	0.0	0.1
366	74.520	74.243	-0.300	0.0	0.0
372	74.520	74.241	-0.300	0.0	0.0
378	74.520	74.239	-0.300	0.0	0.0
384	74.520	74.237	-0.300	0.0	0.0
390	74.520	74.234	-0.300	0.0	0.0
396	74.520	74.232	-0.300	0.0	0.0
402	74.520	74.229	-0.300	0.0	0.0
408	74.520	74.227	-0.300	0.0	0.0
414	74.520	74.224	-0.300	0.0	0.0
420	74.520	74.222	-0.300	0.0	0.0
426	74.520	74.220	-0.300	0.0	0.0
432	74.520	74.218	-0.300	0.0	0.0
438	74.520	74.216	-0.300	0.0	0.0
444	74.520	74.214	-0.300	0.0	0.0
450	74.520	74.213	-0.300	0.0	0.0
456	74.520	74.211	-0.300	0.0	0.0
462	74.520	74.209	-0.300	0.0	0.0
468	74.520	74.208	-0.300	0.0	0.0
474	74.520	74.207	-0.300	0.0	0.0
480	74.520	74.205	-0.300	0.0	0.0
486	74.520	74.204	-0.300	0.0	0.0
492	74.520	74.203	-0.300	0.0	0.0
498	74.520	74.202	-0.300	0.0	0.0
504	74.520	74.202	-0.300	0.0	0.0
510	74.520	74.201	-0.300	0.0	0.0
516	74.520	74.200	-0.300	0.0	0.0
522	74.520	74.200	-0.300	0.0	0.0
528	74.520	74.199	-0.300	0.0	0.0
534	74.520	74.199	-0.300	0.0	0.0
540	74.520	74.199	-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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.198	-0.300	0.0	0.0
552	74.520	74.198	-0.300	0.0	0.0
558	74.520	74.198	-0.300	0.0	0.0
564	74.520	74.198	-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	74.197	-0.300	0.0	0.0
588	74.520	74.197	-0.300	0.0	0.0
594	74.520	74.197	-0.300	0.0	0.0
600	74.520	74.197	-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	74.196	-0.300	0.0	0.0
684	74.520	74.196	-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

RPS P&D		Page 56
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.199	74.148	-0.446	0.0	0.2
12	74.206	74.154	-0.439	0.0	0.6
18	74.213	74.158	-0.432	0.0	1.0
24	74.218	74.162	-0.427	0.0	1.4
30	74.221	74.165	-0.424	0.0	1.6
36	74.223	74.167	-0.422	0.0	1.8
42	74.225	74.168	-0.420	0.0	1.9
48	74.226	74.169	-0.419	0.0	2.0
54	74.226	74.169	-0.419	0.0	2.0
60	74.226	74.170	-0.419	0.0	2.1
66	74.227	74.170	-0.418	0.0	2.1
72	74.229	74.171	-0.416	0.0	2.2
78	74.231	74.172	-0.414	0.0	2.3
84	74.233	74.174	-0.412	0.0	2.5
90	74.237	74.177	-0.408	0.0	2.7
96	74.241	74.180	-0.404	0.0	3.0
102	74.242	74.184	-0.403	0.0	3.3
108	74.245	74.189	-0.400	0.0	3.8
114	74.248	74.193	-0.397	0.0	4.4
120	74.251	74.195	-0.394	0.0	5.0
126	74.254	74.198	-0.391	0.0	5.6
132	74.258	74.201	-0.387	0.0	6.4
138	74.262	74.204	-0.383	0.0	7.2
144	74.266	74.207	-0.379	0.0	8.1
150	74.270	74.211	-0.375	0.0	9.0
156	74.274	74.214	-0.371	0.0	9.9
162	74.278	74.217	-0.367	0.0	10.7
168	74.282	74.220	-0.363	0.0	11.5
174	74.285	74.222	-0.360	0.0	12.2
180	74.286	74.224	-0.359	0.0	12.7
186	74.287	74.225	-0.358	0.0	13.0
192	74.286	74.224	-0.359	0.0	12.9
198	74.285	74.223	-0.360	0.0	12.6
204	74.283	74.221	-0.362	0.0	12.1
210	74.280	74.219	-0.365	0.0	11.5
216	74.277	74.217	-0.368	0.0	10.9
222	74.274	74.218	-0.371	0.0	10.2
228	74.271	74.220	-0.374	0.0	9.6
234	74.270	74.222	-0.375	0.0	8.9
240	74.268	74.223	-0.377	0.0	8.3
246	74.266	74.225	-0.379	0.0	7.7
252	74.265	74.226	-0.380	0.0	7.1
258	74.263	74.228	-0.382	0.0	6.6
264	74.262	74.229	-0.383	0.0	6.1
270	74.261	74.230	-0.384	0.0	5.8

RPS P&D		Page 57
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.260	74.231	-0.385	0.0	5.4
282	74.259	74.232	-0.386	0.0	5.2
288	74.259	74.232	-0.386	0.0	5.0
294	74.259	74.233	-0.386	0.0	4.8
300	74.258	74.234	-0.387	0.0	4.7
306	74.258	74.234	-0.387	0.0	4.5
312	74.258	74.235	-0.387	0.0	4.4
318	74.257	74.235	-0.388	0.0	4.3
324	74.257	74.235	-0.388	0.0	4.2
330	74.256	74.235	-0.389	0.0	4.1
336	74.256	74.236	-0.389	0.0	4.0
342	74.255	74.235	-0.390	0.0	3.8
348	74.254	74.235	-0.391	0.0	3.6
354	74.249	74.234	-0.396	0.0	2.9
360	74.246	74.233	-0.399	0.0	2.3
366	74.243	74.232	-0.402	0.0	1.9
372	74.241	74.230	-0.404	0.0	1.6
378	74.239	74.228	-0.406	0.0	1.4
384	74.237	74.226	-0.408	0.0	1.3
390	74.234	74.225	-0.411	0.0	1.1
396	74.232	74.223	-0.413	0.0	1.0
402	74.229	74.221	-0.416	0.0	1.0
408	74.227	74.218	-0.418	0.0	0.9
414	74.224	74.216	-0.421	0.0	0.8
420	74.222	74.214	-0.423	0.0	0.7
426	74.220	74.212	-0.425	0.0	0.7
432	74.218	74.210	-0.427	0.0	0.6
438	74.216	74.207	-0.429	0.0	0.6
444	74.214	74.206	-0.431	0.0	0.5
450	74.213	74.204	-0.432	0.0	0.5
456	74.211	74.202	-0.434	0.0	0.5
462	74.209	74.199	-0.436	0.0	0.4
468	74.208	74.197	-0.437	0.0	0.4
474	74.207	74.195	-0.438	0.0	0.4
480	74.205	74.193	-0.440	0.0	0.3
486	74.204	74.191	-0.441	0.0	0.3
492	74.203	74.189	-0.442	0.0	0.3
498	74.202	74.187	-0.443	0.0	0.3
504	74.202	74.184	-0.443	0.0	0.3
510	74.201	74.182	-0.444	0.0	0.2
516	74.200	74.180	-0.445	0.0	0.2
522	74.200	74.178	-0.445	0.0	0.2
528	74.199	74.176	-0.446	0.0	0.2
534	74.199	74.174	-0.446	0.0	0.2
540	74.199	74.171	-0.446	0.0	0.2

RPS P&D		Page 58
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.198	74.169	-0.447	0.0	0.2
552	74.198	74.167	-0.447	0.0	0.2
558	74.198	74.165	-0.447	0.0	0.1
564	74.198	74.163	-0.447	0.0	0.1
570	74.197	74.161	-0.448	0.0	0.1
576	74.197	74.159	-0.448	0.0	0.1
582	74.197	74.157	-0.448	0.0	0.1
588	74.197	74.155	-0.448	0.0	0.1
594	74.197	74.154	-0.448	0.0	0.1
600	74.197	74.152	-0.448	0.0	0.1
606	74.196	74.150	-0.449	0.0	0.1
612	74.196	74.149	-0.449	0.0	0.1
618	74.196	74.148	-0.449	0.0	0.1
624	74.196	74.147	-0.449	0.0	0.1
630	74.196	74.147	-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	0.1
648	74.196	74.146	-0.449	0.0	0.1
654	74.196	74.146	-0.449	0.0	0.1
660	74.196	74.146	-0.449	0.0	0.0
666	74.196	74.146	-0.449	0.0	0.0
672	74.196	74.146	-0.449	0.0	0.0
678	74.196	74.146	-0.449	0.0	0.0
684	74.196	74.145	-0.449	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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
6	74.148	74.045	-0.447	0.0	0.2
12	74.154	74.046	-0.441	0.0	0.5
18	74.158	74.046	-0.437	0.0	0.9
24	74.162	74.047	-0.433	0.0	1.3
30	74.165	74.049	-0.430	0.0	1.5
36	74.167	74.050	-0.428	0.0	1.7
42	74.168	74.052	-0.427	0.0	1.9
48	74.169	74.054	-0.426	0.0	2.0
54	74.169	74.055	-0.426	0.0	2.0
60	74.170	74.057	-0.425	0.0	2.0
66	74.170	74.058	-0.425	0.0	2.1
72	74.171	74.060	-0.424	0.0	2.1
78	74.172	74.062	-0.423	0.0	2.2
84	74.174	74.064	-0.421	0.0	2.4
90	74.177	74.066	-0.418	0.0	2.6
96	74.180	74.068	-0.415	0.0	2.8
102	74.184	74.070	-0.411	0.0	3.2
108	74.189	74.073	-0.406	0.0	3.6
114	74.193	74.077	-0.402	0.0	4.3
120	74.195	74.081	-0.400	0.0	4.9
126	74.198	74.085	-0.397	0.0	5.5
132	74.201	74.089	-0.394	0.0	6.2
138	74.204	74.094	-0.391	0.0	7.1
144	74.207	74.100	-0.388	0.0	7.9
150	74.211	74.106	-0.384	0.0	8.8
156	74.214	74.113	-0.381	0.0	9.7
162	74.217	74.121	-0.378	0.0	10.6
168	74.220	74.129	-0.375	0.0	11.4
174	74.222	74.137	-0.373	0.0	12.0
180	74.224	74.146	-0.371	0.0	12.6
186	74.225	74.156	-0.370	0.0	13.0
192	74.224	74.165	-0.371	0.0	12.9
198	74.223	74.173	-0.372	0.0	12.6
204	74.221	74.181	-0.374	0.0	12.1
210	74.219	74.188	-0.376	0.0	11.5
216	74.217	74.195	-0.378	0.0	10.9
222	74.218	74.200	-0.377	0.0	10.2
228	74.220	74.205	-0.375	0.0	9.6
234	74.222	74.210	-0.373	0.0	8.9
240	74.223	74.214	-0.372	0.0	8.2
246	74.225	74.217	-0.370	0.0	7.6
252	74.226	74.220	-0.369	0.0	7.1
258	74.228	74.223	-0.367	0.0	6.6
264	74.229	74.225	-0.366	0.0	6.1
270	74.230	74.226	-0.365	0.0	5.8

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.231	74.228	-0.364	0.0	5.4
282	74.232	74.229	-0.363	0.0	5.2
288	74.232	74.230	-0.363	0.0	5.0
294	74.233	74.231	-0.362	0.0	4.8
300	74.234	74.232	-0.361	0.0	4.7
306	74.234	74.232	-0.361	0.0	4.5
312	74.235	74.233	-0.360	0.0	4.4
318	74.235	74.233	-0.360	0.0	4.3
324	74.235	74.234	-0.360	0.0	4.2
330	74.235	74.234	-0.360	0.0	4.1
336	74.236	74.234	-0.359	0.0	4.0
342	74.235	74.234	-0.360	0.0	3.9
348	74.235	74.234	-0.360	0.0	3.7
354	74.234	74.234	-0.361	0.0	3.1
360	74.233	74.233	-0.362	0.0	2.4
366	74.232	74.232	-0.363	0.0	1.9
372	74.230	74.230	-0.365	0.0	1.6
378	74.228	74.228	-0.367	0.0	1.4
384	74.226	74.226	-0.369	0.0	1.3
390	74.225	74.224	-0.370	0.0	1.2
396	74.223	74.223	-0.372	0.0	1.1
402	74.221	74.221	-0.374	0.0	1.0
408	74.218	74.218	-0.377	0.0	0.9
414	74.216	74.216	-0.379	0.0	0.8
420	74.214	74.214	-0.381	0.0	0.8
426	74.212	74.212	-0.383	0.0	0.7
432	74.210	74.210	-0.385	0.0	0.6
438	74.207	74.208	-0.388	0.0	0.6
444	74.206	74.205	-0.389	0.0	0.5
450	74.204	74.204	-0.391	0.0	0.5
456	74.202	74.202	-0.393	0.0	0.5
462	74.199	74.200	-0.396	0.0	0.5
468	74.197	74.197	-0.398	0.0	0.4
474	74.195	74.195	-0.400	0.0	0.4
480	74.193	74.193	-0.402	0.0	0.4
486	74.191	74.191	-0.404	0.0	0.3
492	74.189	74.189	-0.406	0.0	0.3
498	74.187	74.186	-0.408	0.0	0.3
504	74.184	74.184	-0.411	0.0	0.3
510	74.182	74.182	-0.413	0.0	0.3
516	74.180	74.180	-0.415	0.0	0.2
522	74.178	74.178	-0.417	0.0	0.2
528	74.176	74.175	-0.419	0.0	0.2
534	74.174	74.173	-0.421	0.0	0.2
540	74.171	74.171	-0.424	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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.169	74.169	-0.426	0.0	0.2
552	74.167	74.167	-0.428	0.0	0.2
558	74.165	74.165	-0.430	0.0	0.2
564	74.163	74.163	-0.432	0.0	0.2
570	74.161	74.161	-0.434	0.0	0.1
576	74.159	74.159	-0.436	0.0	0.1
582	74.157	74.157	-0.438	0.0	0.1
588	74.155	74.155	-0.440	0.0	0.1
594	74.154	74.153	-0.441	0.0	0.1
600	74.152	74.151	-0.443	0.0	0.1
606	74.150	74.149	-0.445	0.0	0.1
612	74.149	74.147	-0.446	0.0	0.1
618	74.148	74.145	-0.447	0.0	0.1
624	74.147	74.144	-0.448	0.0	0.1
630	74.147	74.142	-0.448	0.0	0.1
636	74.146	74.140	-0.449	0.0	0.1
642	74.146	74.138	-0.449	0.0	0.1
648	74.146	74.137	-0.449	0.0	0.1
654	74.146	74.135	-0.449	0.0	0.1
660	74.146	74.133	-0.449	0.0	0.0
666	74.146	74.132	-0.449	0.0	0.0
672	74.146	74.130	-0.449	0.0	0.0
678	74.146	74.128	-0.449	0.0	0.0
684	74.145	74.127	-0.450	0.0	0.0
690	74.145	74.125	-0.450	0.0	0.0
696	74.145	74.124	-0.450	0.0	0.0
702	74.145	74.122	-0.450	0.0	0.0
708	74.145	74.121	-0.450	0.0	0.0
714	74.145	74.119	-0.450	0.0	0.0
720	74.145	74.118	-0.450	0.0	0.0

RPS P&D		Page 62
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.046	74.025	-0.449	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	74.049	74.025	-0.446	0.0	0.0
36	74.050	74.025	-0.445	0.0	0.0
42	74.052	74.026	-0.443	0.0	0.0
48	74.054	74.026	-0.441	0.0	0.0
54	74.055	74.026	-0.440	0.0	0.0
60	74.057	74.027	-0.438	0.0	0.1
66	74.058	74.027	-0.437	0.0	0.1
72	74.060	74.028	-0.435	0.0	0.1
78	74.062	74.029	-0.433	0.0	0.1
84	74.064	74.029	-0.431	0.0	0.2
90	74.066	74.030	-0.429	0.0	0.2
96	74.068	74.032	-0.427	0.0	0.3
102	74.070	74.033	-0.425	0.0	0.3
108	74.073	74.035	-0.422	0.0	0.4
114	74.077	74.037	-0.418	0.0	0.5
120	74.081	74.040	-0.414	0.0	0.6
126	74.085	74.043	-0.410	0.0	0.7
132	74.089	74.048	-0.406	0.0	1.0
138	74.094	74.050	-0.401	0.0	1.1
144	74.100	74.051	-0.395	0.0	1.2
150	74.106	74.052	-0.389	0.0	1.4
156	74.113	74.053	-0.382	0.0	1.5
162	74.121	74.054	-0.374	0.0	1.7
168	74.129	74.056	-0.366	0.0	1.8
174	74.137	74.057	-0.358	0.0	2.0
180	74.146	74.059	-0.349	0.0	2.2
186	74.156	74.061	-0.339	0.0	2.4
192	74.165	74.063	-0.330	0.0	2.6
198	74.173	74.064	-0.322	0.0	2.7
204	74.181	74.065	-0.314	0.0	2.9
210	74.188	74.066	-0.307	0.0	3.0
216	74.195	74.067	-0.300	0.0	3.1
222	74.200	74.067	-0.295	0.0	3.2
228	74.205	74.068	-0.290	0.0	3.3
234	74.210	74.069	-0.285	0.0	3.3
240	74.214	74.069	-0.281	0.0	3.4
246	74.217	74.070	-0.278	0.0	3.5
252	74.220	74.070	-0.275	0.0	3.5
258	74.223	74.070	-0.272	0.0	3.5
264	74.225	74.070	-0.270	0.0	3.6
270	74.226	74.071	-0.269	0.0	3.6

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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.228	74.071	-0.267	0.0	3.6
282	74.229	74.071	-0.266	0.0	3.7
288	74.230	74.071	-0.265	0.0	3.7
294	74.231	74.071	-0.264	0.0	3.7
300	74.232	74.071	-0.263	0.0	3.7
306	74.232	74.071	-0.263	0.0	3.7
312	74.233	74.071	-0.262	0.0	3.7
318	74.233	74.071	-0.262	0.0	3.7
324	74.234	74.071	-0.261	0.0	3.7
330	74.234	74.071	-0.261	0.0	3.8
336	74.234	74.071	-0.261	0.0	3.8
342	74.234	74.071	-0.261	0.0	3.8
348	74.234	74.071	-0.261	0.0	3.8
354	74.234	74.071	-0.261	0.0	3.8
360	74.233	74.071	-0.262	0.0	3.7
366	74.232	74.071	-0.263	0.0	3.7
372	74.230	74.071	-0.265	0.0	3.7
378	74.228	74.071	-0.267	0.0	3.7
384	74.226	74.071	-0.269	0.0	3.6
390	74.224	74.070	-0.271	0.0	3.6
396	74.223	74.070	-0.272	0.0	3.6
402	74.221	74.070	-0.274	0.0	3.5
408	74.218	74.070	-0.277	0.0	3.5
414	74.216	74.070	-0.279	0.0	3.5
420	74.214	74.069	-0.281	0.0	3.4
426	74.212	74.069	-0.283	0.0	3.4
432	74.210	74.069	-0.285	0.0	3.4
438	74.208	74.069	-0.287	0.0	3.3
444	74.205	74.068	-0.290	0.0	3.3
450	74.204	74.068	-0.291	0.0	3.3
456	74.202	74.068	-0.293	0.0	3.2
462	74.200	74.068	-0.295	0.0	3.2
468	74.197	74.067	-0.298	0.0	3.2
474	74.195	74.067	-0.300	0.0	3.1
480	74.193	74.067	-0.302	0.0	3.1
486	74.191	74.066	-0.304	0.0	3.1
492	74.189	74.066	-0.306	0.0	3.0
498	74.186	74.066	-0.309	0.0	3.0
504	74.184	74.066	-0.311	0.0	3.0
510	74.182	74.065	-0.313	0.0	2.9
516	74.180	74.065	-0.315	0.0	2.9
522	74.178	74.065	-0.317	0.0	2.9
528	74.175	74.064	-0.320	0.0	2.8
534	74.173	74.064	-0.322	0.0	2.8
540	74.171	74.064	-0.324	0.0	2.8

RPS P&D		Page 64
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 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.169	74.064	-0.326	0.0	2.7
552	74.167	74.063	-0.328	0.0	2.7
558	74.165	74.063	-0.330	0.0	2.7
564	74.163	74.063	-0.332	0.0	2.6
570	74.161	74.062	-0.334	0.0	2.6
576	74.159	74.062	-0.336	0.0	2.6
582	74.157	74.062	-0.338	0.0	2.5
588	74.155	74.061	-0.340	0.0	2.5
594	74.153	74.061	-0.342	0.0	2.4
600	74.151	74.061	-0.344	0.0	2.4
606	74.149	74.060	-0.346	0.0	2.3
612	74.147	74.060	-0.348	0.0	2.3
618	74.145	74.060	-0.350	0.0	2.3
624	74.144	74.059	-0.351	0.0	2.2
630	74.142	74.059	-0.353	0.0	2.2
636	74.140	74.059	-0.355	0.0	2.2
642	74.138	74.058	-0.357	0.0	2.1
648	74.137	74.058	-0.358	0.0	2.1
654	74.135	74.058	-0.360	0.0	2.0
660	74.133	74.057	-0.362	0.0	2.0
666	74.132	74.057	-0.363	0.0	2.0
672	74.130	74.057	-0.365	0.0	1.9
678	74.128	74.057	-0.367	0.0	1.9
684	74.127	74.056	-0.368	0.0	1.9
690	74.125	74.056	-0.370	0.0	1.8
696	74.124	74.056	-0.371	0.0	1.8
702	74.122	74.055	-0.373	0.0	1.8
708	74.121	74.055	-0.374	0.0	1.7
714	74.119	74.055	-0.376	0.0	1.7
720	74.118	74.055	-0.377	0.0	1.7

RPS P&D		Page 65
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 1.013 US/MH 16 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 2 year Winter I+0%
Average Rainfall Intensity 4.435 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	74.026	73.673	-0.224	0.0	0.0
48	74.026	73.673	-0.224	0.0	0.0
54	74.026	73.673	-0.224	0.0	0.0
60	74.027	73.673	-0.223	0.0	0.1
66	74.027	73.673	-0.223	0.0	0.1
72	74.028	73.673	-0.222	0.0	0.1
78	74.029	73.673	-0.221	0.0	0.1
84	74.029	73.673	-0.221	0.0	0.2
90	74.030	73.673	-0.220	0.0	0.2
96	74.032	73.673	-0.218	0.0	0.2
102	74.033	73.673	-0.217	0.0	0.3
108	74.035	73.673	-0.215	0.0	0.3
114	74.037	73.673	-0.213	0.0	0.4
120	74.040	73.673	-0.210	0.0	0.5
126	74.043	73.673	-0.207	0.0	0.6
132	74.048	73.673	-0.202	0.0	0.7
138	74.050	73.673	-0.200	0.0	1.0
144	74.051	73.673	-0.199	0.0	1.2
150	74.052	73.673	-0.198	0.0	1.3
156	74.053	73.673	-0.197	0.0	1.4
162	74.054	73.673	-0.196	0.0	1.6
168	74.056	73.673	-0.194	0.0	1.7
174	74.057	73.673	-0.193	0.0	1.9
180	74.059	73.673	-0.191	0.0	2.1
186	74.061	73.673	-0.189	0.0	2.3
192	74.063	73.673	-0.187	0.0	2.5
198	74.064	73.673	-0.186	0.0	2.7
204	74.065	73.673	-0.185	0.0	2.8
210	74.066	73.673	-0.184	0.0	2.9
216	74.067	73.673	-0.183	0.0	3.0
222	74.067	73.673	-0.183	0.0	3.1
228	74.068	73.673	-0.182	0.0	3.2
234	74.069	73.673	-0.181	0.0	3.3
240	74.069	73.673	-0.181	0.0	3.4
246	74.070	73.673	-0.180	0.0	3.4
252	74.070	73.673	-0.180	0.0	3.5
258	74.070	73.673	-0.180	0.0	3.5
264	74.070	73.673	-0.180	0.0	3.6
270	74.071	73.673	-0.179	0.0	3.6

RPS P&D		Page 66
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 1.013 US/MH 16 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
276	74.071	73.673	-0.179	0.0	3.6
282	74.071	73.673	-0.179	0.0	3.7
288	74.071	73.673	-0.179	0.0	3.7
294	74.071	73.673	-0.179	0.0	3.7
300	74.071	73.673	-0.179	0.0	3.7
306	74.071	73.673	-0.179	0.0	3.7
312	74.071	73.673	-0.179	0.0	3.7
318	74.071	73.673	-0.179	0.0	3.7
324	74.071	73.673	-0.179	0.0	3.7
330	74.071	73.673	-0.179	0.0	3.7
336	74.071	73.673	-0.179	0.0	3.8
342	74.071	73.673	-0.179	0.0	3.8
348	74.071	73.673	-0.179	0.0	3.8
354	74.071	73.673	-0.179	0.0	3.8
360	74.071	73.673	-0.179	0.0	3.7
366	74.071	73.673	-0.179	0.0	3.7
372	74.071	73.673	-0.179	0.0	3.7
378	74.071	73.673	-0.179	0.0	3.7
384	74.071	73.673	-0.179	0.0	3.7
390	74.070	73.673	-0.180	0.0	3.6
396	74.070	73.673	-0.180	0.0	3.6
402	74.070	73.673	-0.180	0.0	3.6
408	74.070	73.673	-0.180	0.0	3.5
414	74.070	73.673	-0.180	0.0	3.5
420	74.069	73.673	-0.181	0.0	3.5
426	74.069	73.673	-0.181	0.0	3.4
432	74.069	73.673	-0.181	0.0	3.4
438	74.069	73.673	-0.181	0.0	3.4
444	74.068	73.673	-0.182	0.0	3.3
450	74.068	73.673	-0.182	0.0	3.3
456	74.068	73.673	-0.182	0.0	3.3
462	74.068	73.673	-0.182	0.0	3.2
468	74.067	73.673	-0.183	0.0	3.2
474	74.067	73.673	-0.183	0.0	3.2
480	74.067	73.673	-0.183	0.0	3.1
486	74.066	73.673	-0.184	0.0	3.1
492	74.066	73.673	-0.184	0.0	3.1
498	74.066	73.673	-0.184	0.0	3.0
504	74.066	73.673	-0.184	0.0	3.0
510	74.065	73.673	-0.185	0.0	3.0
516	74.065	73.673	-0.185	0.0	2.9
522	74.065	73.673	-0.185	0.0	2.9
528	74.064	73.673	-0.186	0.0	2.9
534	74.064	73.673	-0.186	0.0	2.8
540	74.064	73.673	-0.186	0.0	2.8

RPS P&D		Page 67
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 1.013 US/MH 16 (JNY8140 SW NETWORK DESIGN 2015
09 25.SWS)
360 minute 2 year Winter I+0%
Average Rainfall Intensity 4.435 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
546	74.064	73.673	-0.186	0.0	2.8
552	74.063	73.673	-0.187	0.0	2.7
558	74.063	73.673	-0.187	0.0	2.7
564	74.063	73.673	-0.187	0.0	2.7
570	74.062	73.673	-0.188	0.0	2.6
576	74.062	73.673	-0.188	0.0	2.6
582	74.062	73.673	-0.188	0.0	2.5
588	74.061	73.673	-0.189	0.0	2.5
594	74.061	73.673	-0.189	0.0	2.5
600	74.061	73.673	-0.189	0.0	2.4
606	74.060	73.673	-0.190	0.0	2.4
612	74.060	73.673	-0.190	0.0	2.3
618	74.060	73.673	-0.190	0.0	2.3
624	74.059	73.673	-0.191	0.0	2.3
630	74.059	73.673	-0.191	0.0	2.2
636	74.059	73.673	-0.191	0.0	2.2
642	74.058	73.673	-0.192	0.0	2.1
648	74.058	73.673	-0.192	0.0	2.1
654	74.058	73.673	-0.192	0.0	2.1
660	74.057	73.673	-0.193	0.0	2.0
666	74.057	73.673	-0.193	0.0	2.0
672	74.057	73.673	-0.193	0.0	2.0
678	74.057	73.673	-0.193	0.0	1.9
684	74.056	73.673	-0.194	0.0	1.9
690	74.056	73.673	-0.194	0.0	1.9
696	74.056	73.673	-0.194	0.0	1.8
702	74.055	73.673	-0.195	0.0	1.8
708	74.055	73.673	-0.195	0.0	1.8
714	74.055	73.673	-0.195	0.0	1.7
720	74.055	73.673	-0.195	0.0	1.7