

Bradbrook Consulting		Page 1
Blackfriars Office 240 Blackfriars Road London, SE1 8NW	Silverdale Road, Hayes Network 2 Building C and D	
Date 07/10/2020 16:30 File Network-2.MDX	Designed by MS Checked by RM	
Innovyze	Network 2020.1	

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.181	4-8	0.042

Total Area Contributing (ha) = 0.223

Total Pipe Volume (m³) = 3.534

Existing Network Details for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type
S1.000	32.000	0.213	150.2	0.018	4.00	0.0	0.600	o	150	Pipe/Conduit
S2.000	5.400	0.216	25.0	0.018	4.00	0.0	0.600	o	150	Pipe/Conduit
S2.001	22.700	0.460	49.3	0.016	0.00	0.0	0.600	o	150	Pipe/Conduit
S1.001	15.800	0.105	150.5	0.018	0.00	0.0	0.600	o	150	Pipe/Conduit
S1.002	15.600	0.104	150.0	0.039	0.00	0.0	0.600	o	225	Pipe/Conduit
S3.000	2.500	0.100	25.0	0.012	4.00	0.0	0.600	o	150	Pipe/Conduit
S4.000	9.700	0.388	25.0	0.022	4.00	0.0	0.600	o	150	Pipe/Conduit
S1.003	1.900	0.013	150.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
S5.000	6.000	0.400	15.0	0.036	4.00	0.0	0.600	o	150	Pipe/Conduit
S5.001	1.000	0.007	150.0	0.020	0.00	0.0	0.600	o	150	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
S1.000	29.500	0.018	0.0	0.82	14.4
S2.000	30.180	0.018	0.0	2.02	35.7
S2.001	29.750	0.034	0.0	1.44	25.4
S1.001	29.287	0.070	0.0	0.82	14.4
S1.002	29.107	0.109	0.0	1.07	42.4
S3.000	29.820	0.012	0.0	2.02	35.7
S4.000	29.850	0.022	0.0	2.02	35.7
S1.003	29.003	0.143	0.0	1.07	42.4
S5.000	30.000	0.036	0.0	2.61	46.2
S5.001	29.600	0.056	0.0	0.82	14.5

Existing Network Details for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type
S1.004	1.600	0.010	160.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
S1.005	20.400	0.136	150.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
S6.000	1.000	0.040	25.0	0.004	4.00	0.0	0.600	o	150	Pipe/Conduit
S6.001	11.000	0.073	150.0	0.020	0.00	0.0	0.600	o	150	Pipe/Conduit
S1.006	4.000	-1.270	-3.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
S1.004	28.700	0.199	0.0	1.03	41.0
S1.005	28.690	0.199	0.0	1.07	42.4
S6.000	30.200	0.004	0.0	2.02	35.7
S6.001	29.800	0.024	0.0	0.82	14.5
S1.006	28.550	0.223	0.0	0.00	0.0

Manhole Schedules for Storm											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
SS201	30.700	1.200	Open Manhole	1200	S1.000	29.500	150				
SSP4	30.980	0.800	Open Manhole	1200	S2.000	30.180	150				
SS202	30.950	1.200	Open Manhole	1200	S2.001	29.750	150	S2.000	29.964	150	214
SS203	30.700	1.413	Open Manhole	1200	S1.001	29.287	150	S1.000	29.287	150	
								S2.001	29.290	150	3
SS204	30.700	1.593	Open Manhole	1200	S1.002	29.107	225	S1.001	29.182	150	
SSP5	30.620	0.800	Open Manhole	1200	S3.000	29.820	150				
SSP6	30.650	0.800	Open Manhole	1200	S4.000	29.850	150				
SS204	30.700	1.697	Open Manhole	1200	S1.003	29.003	225	S1.002	29.003	225	
								S3.000	29.720	150	642
								S4.000	29.462	150	384
SSP7	30.800	0.800	Open Manhole	1200	S5.000	30.000	150				
SS205	30.800	1.200	Open Manhole	1200	S5.001	29.600	150	S5.000	29.600	150	
STANK 2	30.800	2.100	Open Manhole	1200	S1.004	28.700	225	S1.003	28.990	225	290
								S5.001	29.593	150	818
SS206	30.700	2.010	Open Manhole	1200	S1.005	28.690	225	S1.004	28.690	225	
SSP8	31.000	0.800	Open Manhole	1200	S6.000	30.200	150				
SS207	31.000	1.200	Open Manhole	1200	S6.001	29.800	150	S6.000	30.160	150	360
SPS2	31.000	2.450	Open Manhole	1200	S1.006	28.550	150	S1.005	28.554	225	79
								S6.001	29.727	150	1177
S	30.920	1.100	Open Manhole	0		OUTFALL		S1.006	29.820	150	

No coordinates have been specified, layout information cannot be produced.

PIPELINE SCHEDULES for Storm

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)
S1.000	o	150	SS201	30.700	29.500	1.050	Open Manhole	1200
S2.000	o	150	SSP4	30.980	30.180	0.650	Open Manhole	1200
S2.001	o	150	SS202	30.950	29.750	1.050	Open Manhole	1200
S1.001	o	150	SS203	30.700	29.287	1.263	Open Manhole	1200
S1.002	o	225	SS204	30.700	29.107	1.368	Open Manhole	1200
S3.000	o	150	SSP5	30.620	29.820	0.650	Open Manhole	1200
S4.000	o	150	SSP6	30.650	29.850	0.650	Open Manhole	1200
S1.003	o	225	SS204	30.700	29.003	1.472	Open Manhole	1200
S5.000	o	150	SSP7	30.800	30.000	0.650	Open Manhole	1200

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)
S1.000	32.000	150.2	SS203	30.700	29.287	1.263	Open Manhole	1200
S2.000	5.400	25.0	SS202	30.950	29.964	0.836	Open Manhole	1200
S2.001	22.700	49.3	SS203	30.700	29.290	1.260	Open Manhole	1200
S1.001	15.800	150.5	SS204	30.700	29.182	1.368	Open Manhole	1200
S1.002	15.600	150.0	SS204	30.700	29.003	1.472	Open Manhole	1200
S3.000	2.500	25.0	SS204	30.700	29.720	0.830	Open Manhole	1200
S4.000	9.700	25.0	SS204	30.700	29.462	1.088	Open Manhole	1200
S1.003	1.900	150.0	STANK 2	30.800	28.990	1.585	Open Manhole	1200
S5.000	6.000	15.0	SS205	30.800	29.600	1.050	Open Manhole	1200

PIPELINE SCHEDULES for Storm

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)
S5.001	o	150	SS205	30.800	29.600	1.050	Open Manhole	1200
S1.004	o	225	STANK 2	30.800	28.700	1.875	Open Manhole	1200
S1.005	o	225	SS206	30.700	28.690	1.785	Open Manhole	1200
S6.000	o	150	SSP8	31.000	30.200	0.650	Open Manhole	1200
S6.001	o	150	SS207	31.000	29.800	1.050	Open Manhole	1200
S1.006	o	150	SPS2	31.000	28.550	2.300	Open Manhole	1200

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)
S5.001	1.000	150.0	STANK 2	30.800	29.593	1.057	Open Manhole	1200
S1.004	1.600	160.0	SS206	30.700	28.690	1.785	Open Manhole	1200
S1.005	20.400	150.0	SPS2	31.000	28.554	2.221	Open Manhole	1200
S6.000	1.000	25.0	SS207	31.000	30.160	0.690	Open Manhole	1200
S6.001	11.000	150.0	SPS2	31.000	29.727	1.123	Open Manhole	1200
S1.006	4.000	-3.1	S	30.920	29.820	0.950	Open Manhole	0

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
S1.006	S	30.920	29.820	0.000	0	0

Bradbrook Consulting		Page 7
Blackfriars Office 240 Blackfriars Road London, SE1 8NW	Silverdale Road, Hayes Network 2 Building C and D	
Date 07/10/2020 16:30 File Network-2.MDX	Designed by MS Checked by RM	
Innovyze	Network 2020.1	

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Manhole Headloss Coeff (Global)	0.500	Inlet Coeffiecient	0.800
Areal Reduction Factor	1.000	Foul Sewage per hectare (l/s)	0.000	Flow per Person per Day (l/per/day)	0.000
Hot Start (mins)	0	Additional Flow - % of Total Flow	0.000	Run Time (mins)	60
Hot Start Level (mm)	0	MADD Factor * 10m³/ha Storage	2.000	Output Interval (mins)	1

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	M5-60 (mm)	20.000	Cv (Summer)	0.750
Return Period (years)	100	Ratio R	0.408	Cv (Winter)	0.840
Region	England and Wales	Profile Type	Summer Storm	Duration (mins)	30

Bradbrook Consulting		Page 8
Blackfriars Office 240 Blackfriars Road London, SE1 8NW	Silverdale Road, Hayes Network 2 Building C and D	
Date 07/10/2020 16:30 File Network-2.MDX	Designed by MS Checked by RM	
Innovyze	Network 2020.1	

Online Controls for Storm

Pump Manhole: SPS2, DS/PN: S1.006, Volume (m³): 3.7

Invert Level (m) 28.550

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.200	3.0000	0.400	3.0000	0.600	3.0000	0.800	3.0000	1.000	3.0000	1.200	3.0000

Storage Structures for Storm

Cellular Storage Manhole: STANK 2, DS/PN: S1.004

Invert Level (m) 28.700 Infiltration Coefficient Side (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Base (m/hr) 0.00000 Safety Factor 2.0

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	155.0	0.0	1.200	155.0	0.0	1.201	0.0	0.0

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Manhole Headloss Coeff (Global)	0.500	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Foul Sewage per hectare (l/s)	0.000	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Additional Flow - % of Total Flow	0.000	Flow per Person per Day (l/per/day)	0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR M5-60 (mm)	20.000	Cv (Summer)	0.750	
Region	England and Wales	Ratio R	0.411	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	2.5 Second Increment (Extended)	Inertia Status	OFF
DTS Status			ON

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status	Level Exceeded
									Level (m)	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)		
S1.000	SS201	15 Winter	1	+0%	30/15 Summer				29.545	-0.105	0.000	0.19			2.6	OK	
S2.000	SSP4	15 Summer	1	+0%					30.211	-0.119	0.000	0.09			2.7	OK	
S2.001	SS202	15 Winter	1	+0%	100/15 Summer				29.794	-0.106	0.000	0.19			4.6	OK	
S1.001	SS203	15 Winter	1	+0%	30/15 Summer				29.380	-0.057	0.000	0.70			9.3	OK	
S1.002	SS204	15 Winter	1	+0%	30/15 Summer				29.202	-0.130	0.000	0.37			13.9	OK	
S3.000	SSP5	15 Summer	1	+0%					29.850	-0.120	0.000	0.09			1.8	OK	
S4.000	SSP6	15 Summer	1	+0%					29.882	-0.118	0.000	0.10			3.3	OK	
S1.003	SS204	15 Winter	1	+0%	30/15 Summer				29.135	-0.093	0.000	0.64			18.8	OK	
S5.000	SSP7	15 Summer	1	+0%					30.037	-0.113	0.000	0.14			5.4	OK	
S5.001	SS205	15 Winter	1	+0%	30/15 Summer				29.695	-0.055	0.000	0.72			7.8	OK	
S1.004	STANK 2	120 Winter	1	+0%	30/30 Summer				28.810	-0.115	0.000	0.14		66	4.2	OK	
S1.005	SS206	120 Winter	1	+0%	30/15 Winter				28.825	-0.090	0.000	0.18			6.8	OK	
S6.000	SSP8	15 Summer	1	+0%					30.221	-0.129	0.000	0.05			0.6	OK	
S6.001	SS207	15 Winter	1	+0%					29.849	-0.101	0.000	0.23			3.0	OK	

Bradbrook Consulting		Page 11
Blackfriars Office 240 Blackfriars Road London, SE1 8NW	Silverdale Road, Hayes Network 2 Building C and D	
Date 07/10/2020 16:30 File Network-2.MDX	Designed by MS Checked by RM	
Innovyze	Network 2020.1	

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

										Water	Surcharged	Flooded			Half Drain	Pipe		
PN	US/MH			Return Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume	Flow /	Overflow	Time	Flow		Level	
	Name	Storm		Period Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)	Cap.	(l/s)	(mins)	(l/s)	Status	Exceeded	
S1.006	SPS2 120	Winter		1 +0%	1/15 Summer				28.832	0.132	0.000	0.31			3.0	SURCHARGED		

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Manhole Headloss Coeff (Global)	0.500	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Foul Sewage per hectare (l/s)	0.000	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Additional Flow - % of Total Flow	0.000	Flow per Person per Day (l/per/day)	0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR M5-60 (mm)	20.000	Cv (Summer)	0.750	
Region	England and Wales	Ratio R	0.411	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep 2.5 Second Increment (Extended) Inertia Status OFF
DTS Status ON

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

WARNING: Half Drain Time has not been calculated as the structure is too full.

PN	US/MH Name	Storm	Return Period	Climate Change	First (X)			First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Surcharged Flooded			Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
					First	(X)	Surcharge				Level	Depth	Volume	Flow / Overflow			
S1.000	SS201	15 Winter	30	+0%	30/15	Summer					29.702	0.052	0.000	0.41	5.6	SURCHARGED	
S2.000	SSP4	15 Winter	30	+0%							30.228	-0.102	0.000	0.23	6.6	OK	
S2.001	SS202	15 Summer	30	+0%	100/15	Summer					29.827	-0.073	0.000	0.52	12.6	OK	
S1.001	SS203	15 Winter	30	+0%	30/15	Summer					29.665	0.228	0.000	1.61	21.5	SURCHARGED	
S1.002	SS204	15 Winter	30	+0%	30/15	Summer					29.393	0.061	0.000	0.90	33.6	SURCHARGED	
S3.000	SSP5	15 Summer	30	+0%							29.868	-0.102	0.000	0.22	4.4	OK	
S4.000	SSP6	15 Winter	30	+0%							29.901	-0.099	0.000	0.26	8.1	OK	
S1.003	SS204	15 Winter	30	+0%	30/15	Summer					29.308	0.080	0.000	1.54	45.0	SURCHARGED	
S5.000	SSP7	15 Winter	30	+0%							30.061	-0.089	0.000	0.35	13.3	OK	
S5.001	SS205	15 Summer	30	+0%	30/15	Summer					29.846	0.096	0.000	1.91	20.7	SURCHARGED	
S1.004	STANK 2	120 Winter	30	+0%	30/30	Summer					29.043	0.118	0.000	0.32	9.4	SURCHARGED	

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

										Water Surcharged Flooded				Half Drain Pipe			
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)	Status	Level Exceeded
S1.005	SS206	120 Winter	30	+0%	30/15 Winter				29.112	0.197	0.000	0.16			6.1	SURCHARGED	
S6.000	SSP8	15 Summer	30	+0%					30.234	-0.116	0.000	0.12			1.5	OK	
S6.001	SS207	15 Summer	30	+0%					29.891	-0.059	0.000	0.68			8.9	OK	
S1.006	SPS2	120 Winter	30	+0%	1/15 Summer				29.180	0.480	0.000	0.31			3.0	SURCHARGED	

Silverdale Road, Hayes
Network 2 Building C and D



Designed by MS
Checked by RM

Network 2020.1

Simulation Criteria					
Areal Reduction Factor	1.000	Manhole Headloss Coeff (Global)	0.500	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Foul Sewage per hectare (l/s)	0.000	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Additional Flow - % of Total Flow	0.000	Flow per Person per Day (l/per/day)	0.000
Number of Input Hydrographs	0	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	1	Number of Storage Structures	1	Number of Real Time Controls	0

Rainfall Model	FSR M5-60 (mm)	20.000	Cv (Summer)	0.750
Region	England and Wales	Ratio R	0.411	Cv (Winter)
				0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep 2.5 Second Increment (Extended)		Inertia Status	OFF
DTS Status	ON		

Profile(s)													Summer and Winter			
Duration(s) (mins)	15,	30,	60,	120,	180,	240,	360,	480,	600,	720,	960,	1440,	2160,	2880,	4320,	5760,
													7200,	8640,	10080	
Return Period(s) (years)													1, 30, 100			
Climate Change (%)													0, 0, 0			

WARNING: Half Drain Time has not been calculated as the structure is too full.

									Water	Surcharged	Flooded			Half Drain	Pipe		
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)	Status	Level Exceeded
S1.000	SS201	15 Winter	100	+0%	30/15 Summer				29.943	0.293	0.000	0.48			6.7	SURCHARGED	
S2.000	SSP4	15 Winter	100	+0%					30.236	-0.094	0.000	0.30			8.6	OK	
S2.001	SS202	15 Winter	100	+0%	100/15 Summer				30.036	0.136	0.000	0.61			14.6	SURCHARGED	
S1.001	SS203	15 Winter	100	+0%	30/15 Summer				29.894	0.457	0.000	1.97			26.4	SURCHARGED	
S1.002	SS204	15 Winter	100	+0%	30/15 Summer				29.500	0.168	0.000	1.11			41.4	SURCHARGED	
S3.000	SSP5	15 Summer	100	+0%					29.875	-0.095	0.000	0.29			5.8	OK	
S4.000	SSP6	15 Winter	100	+0%					29.909	-0.091	0.000	0.33			10.5	OK	
S1.003	SS204	15 Winter	100	+0%	30/15 Summer				29.370	0.142	0.000	1.93			56.4	SURCHARGED	
S5.000	SSP7	15 Winter	100	+0%					30.070	-0.080	0.000	0.45			17.3	OK	
S5.001	SS205	15 Winter	100	+0%	30/15 Summer				29.920	0.170	0.000	2.46			26.7	SURCHARGED	
S1.004	STANK 2	180 Winter	100	+0%	30/30 Summer				29.181	0.256	0.000	0.31			9.4	SURCHARGED	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm																	
US/MH			Return Climate		First (X)	First (Y)	First (Z)	Overflow	Water	Surcharged	Flooded	Half Drain			Pipe	Level	
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	Level	Depth	Volume	Flow /	Overflow	Time	Flow	Status	Exceeded
S1.005	SS206	180 Winter	100	+0%	30/15 Winter				29.249	0.334	0.000	0.16			6.1	SURCHARGED	
S6.000	SSP8	15 Summer	100	+0%					30.239	-0.111	0.000	0.15			1.9	OK	
S6.001	SS207	15 Summer	100	+0%					29.910	-0.040	0.000	0.89			11.5	OK	
S1.006	SPS2	180 Winter	100	+0%	1/15 Summer				29.321	0.621	0.000	0.31			3.0	SURCHARGED	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm																	
US/MH			Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged	Flooded	Half Drain			Pipe	Status	Level
PN	Name	Storm							Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)		Exceeded
S1.005	SS206	240 Winter	100	+40%	100/15 Summer				29.494	0.579	0.000	0.16			6.0	SURCHARGED	
S6.000	SSP8	15 Summer	100	+40%					30.247	-0.103	0.000	0.21			2.7	OK	
S6.001	SS207	15 Winter	100	+40%	100/15 Summer				29.982	0.032	0.000	1.24			16.1	SURCHARGED	
S1.006	SPS2	180 Winter	100	+40%	100/15 Summer				29.566	0.866	0.000	0.31			3.0	SURCHARGED	