Existing Network Details for SW West

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
2.000	10.606	0.177	59.9	0.045	5.00	0.0	0.600	o	225	Pipe/Conduit
2.001	35.086	0.351	100.0	0.111	5.00	0.0	0.600	o	225	Pipe/Conduit
2.002	9.552	0.040	238.8	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit
2.003	28.632	0.119	240.6	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit
3.000	18.670	0.187	100.0	0.020	5.00	0.0	0.600	o	150	Pipe/Conduit
4.000	5.807	0.415	14.0	0.021	5.00	0.0	0.600	o	150	Pipe/Conduit
3.001	20.955	0.210	100.0	0.026	0.00	0.0	0.600	o	225	Pipe/Conduit
5.000	6.126	0.061	100.0	0.030	5.00	0.0	0.600	o	150	Pipe/Conduit
3.002	24.636	0.328	75.1	0.036	0.00	0.0	0.600	o	225	Pipe/Conduit
2.004	24.237	0.101	240.0	0.025	0.00	0.0	0.600	o	300	Pipe/Conduit
6.000	17.989	0.180	99.9	0.134	5.00	0.0	0.600	o	225	Pipe/Conduit
7.000	4.692	0.059	79.5	0.024	5.00	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)
2.000	73.800	0.045	0.0	1.69	67.3
2.001	73.622	0.156	0.0	1.31	52.0
2.002	73.121	0.156	0.0	1.01	71.6
2.003	73.081	0.156	0.0	1.01	71.3
3.000	73.900	0.020	0.0	1.00	17.8
4.000	74.250	0.021	0.0	2.71	47.8
3.001	73.650	0.067	0.0	1.31	52.0
5.000	74.400	0.030	0.0	1.00	17.8
3.002	73.440	0.133	0.0	1.51	60.1
2.004	72.962	0.314	0.0	1.01	71.4
6.000	73.800	0.134	0.0	1.31	52.0
7.000	74.280	0.024	0.0	1.13	19.9

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Existing Network Details for SW West

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
7.001	3.264	0.068	48.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit
6.001	17.239	0.388	44.4	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
6.002	18.934	0.221	85.7	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
2.005	43.458	0.109	400.0	0.047	0.00	0.0	0.600	o	450	Pipe/Conduit
8.000	10.932	0.109	100.3	0.014	5.00	0.0	0.600	o	100	Pipe/Conduit
2.006	19.972	0.050	400.0	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit
9.000	28.309	0.472	60.0	0.130	5.00	0.0	0.600	o	225	Pipe/Conduit
9.001	15.020	0.250	60.1	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
9.002	11.573	0.116	100.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
9.003	5.868	0.020	300.0	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit
9.004	7.661	0.026	300.0	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit
9.005	8.002	0.027	300.0	0.079	0.00	0.0	0.600	o	450	Pipe/Conduit
2.007	7.791	0.078	99.9	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit
2.008	27.125	0.543	50.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
7.001	74.221	0.024	0.0	1.46	25.7
6.001	73.620	0.158	0.0	1.97	78.2
6.002	73.232	0.158	0.0	1.41	56.2
2.005	72.700	0.519	0.0	1.01	160.7
8.000	73.700	0.014	0.0	0.77	6.0
2.006	72.591	0.533	0.0	1.01	160.7
9.000	74.200	0.130	0.0	1.69	67.3
9.001	73.728	0.130	0.0	1.69	67.2
9.002	73.478	0.130	0.0	1.31	52.0
9.003	72.600	0.130	0.0	1.17	185.8
9.004	72.580	0.130	0.0	1.17	185.8
9.005	72.546	0.209	0.0	1.17	185.8
2.007	72.519	0.742	0.0	1.57	111.2
2.008	71.860	0.742	0.0	2.23	157.5

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Existing Network Details for SW West

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
2.009	55.684	1.114	50.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit
2.010	4.777	0.096	50.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
2.009	71.318	0.742	0.0	2.23	157.5
2.010	70.204	0.742	0.0	2.23	157.5

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Manhole Schedules for SW West

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
1	75.210	1.410	Open Manhole	600	2.000	73.800	225				
SA3B	75.362	1.740	Open Manhole	600	2.001	73.622	225	2.000	73.623	225	1
SA3G	75.254	2.133	Open Manhole	600	2.002	73.121	300	2.001	73.271	225	
SA3	75.020	1.939	Open Manhole	600	2.003	73.081	300	2.002	73.081	300	
SA4A	75.412	1.512	Open Manhole	450	3.000	73.900	150				
SA4B	75.314	1.064	Open Manhole	450	4.000	74.250	150				
SA4C	75.322	1.672	Open Manhole	450	3.001	73.650	225	3.000	73.713	150	63
								4.000	73.835	150	185
SA4D	75.452	1.052	Open Manhole	450	5.000	74.400	150				
SA4E	75.384	1.944	Open Manhole	450	3.002	73.440	225	3.001	73.440	225	
								5.000	74.339	150	824
SA4	75.334	2.372	Open Manhole	600	2.004	72.962	300	2.003	72.962	300	
								3.002	73.112	225	
SA5A	75.348	1.548	Open Manhole	600	6.000	73.800	225				
SA5B	75.335	1.055	Open Manhole	450	7.000	74.280	150				
SA5C	75.327	1.106	Open Manhole	450	7.001	74.221	150	7.000	74.221	150	
SA5D	75.325	1.705	Open Manhole	600	6.001	73.620	225	6.000	73.620	225	
								7.001	74.153	150	458
SA5E	75.399	2.167	Open Manhole	600	6.002	73.232	225	6.001	73.232	225	
SA5	75.208	2.508	Open Manhole	1500	2.005	72.700	450	2.004	72.861	300	161
								6.002	73.011	225	86
SA6B	75.337	1.637	Open Manhole	450	8.000	73.700	100				
SA6	75.398	2.807	Open Manhole	1500	2.006	72.591	450	2.005	72.591	450	
								8.000	73.591	100	700
SA7A	75.366	1.166	Open Manhole	600	9.000	74.200	225				
SA7E	75.350	1.622	Open Manhole	600	9.001	73.728	225	9.000	73.728	225	
SA7F	75.363	1.885	Open Manhole	600	9.002	73.478	225	9.001	73.478	225	
SA7	75.219	2.619	Open Manhole	1500	9.003	72.600	450	9.002	73.362	225	537
TANK 1	75.230	2.650	Junction		9.004	72.580	450	9.003	72.580	450	
SA8A	75.276	2.730	Open Manhole	1500	9.005	72.546	450	9.004	72.554	450	8
SA8	75.335	2.816	Open Manhole	2100	2.007	72.519	300	2.006	72.541	450	97
								9.005	72.519	450	
CA1	75.488	3.628	Open Manhole	1500	2.008	71.860	300	2.007	72.441	300	581
CA2	75.198	3.881	Open Manhole	1500	2.009	71.318	300	2.008	71.318	300	

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Manhole Schedules for SW West

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
CA3	74.199	3.995	Open Manhole	1200	2.010	70.204	300	2.009	70.204	300	
c2 outfall	73.200	3.092	Open Manhole	750		OUTFALL		2.010	70.108	300	

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PIPELINE SCHEDULES for SW West

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)
2.000	o	225	1	75.210	73.800	1.185	Open Manhole	600
2.001	o	225	SA3B	75.362	73.622	1.515	Open Manhole	600
2.002	o	300	SA3G	75.254	73.121	1.758	Open Manhole	600
2.003	o	300	SA3	75.020	73.081	1.564	Open Manhole	600
3.000	o	150	SA4A	75.412	73.900	1.362	Open Manhole	450
4.000	o	150	SA4B	75.314	74.250	0.914	Open Manhole	450
3.001	o	225	SA4C	75.322	73.650	1.522	Open Manhole	450
5.000	o	150	SA4D	75.452	74.400	0.902	Open Manhole	450
3.002	o	225	SA4E	75.384	73.440	1.719	Open Manhole	450
2.004	o	300	SA4	75.334	72.962	1.922	Open Manhole	600
6.000	o	225	SA5A	75.348	73.800	1.323	Open Manhole	600

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)
2.000	10.606	59.9	SA3B	75.362	73.623	1.514	Open Manhole	600
2.001	35.086	100.0	SA3G	75.254	73.271	1.758	Open Manhole	600
2.002	9.552	238.8	SA3	75.020	73.081	1.564	Open Manhole	600
2.003	28.632	240.6	SA4	75.334	72.962	1.997	Open Manhole	600
3.000	18.670	100.0	SA4C	75.322	73.713	1.459	Open Manhole	450
4.000	5.807	14.0	SA4C	75.322	73.835	1.337	Open Manhole	450
3.001	20.955	100.0	SA4E	75.384	73.440	1.794	Open Manhole	450
5.000	6.126	100.0	SA4E	75.384	74.339	0.895	Open Manhole	450
3.002	24.636	75.1	SA4	75.334	73.112	1.997	Open Manhole	600
2.004	24.237	240.0	SA5	75.208	72.861	1.897	Open Manhole	1500
6.000	17.989	99.9	SA5D	75.325	73.620	1.480	Open Manhole	600

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PIPELINE SCHEDULES for SW West

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)
7.000	o	150	SA5B	75.335	74.280	0.905	Open Manhole	450
7.001	o	150	SA5C	75.327	74.221	0.956	Open Manhole	450
6.001	o	225	SA5D	75.325	73.620	1.480	Open Manhole	600
6.002	o	225	SA5E	75.399	73.232	1.942	Open Manhole	600
2.005	o	450	SA5	75.208	72.700	2.058	Open Manhole	1500
8.000	o	100	SA6B	75.337	73.700	1.487	Open Manhole	450
2.006	o	450	SA6	75.398	72.591	2.357	Open Manhole	1500
9.000	o	225	SA7A	75.366	74.200	0.941	Open Manhole	600
9.001	o	225	SA7E	75.350	73.728	1.397	Open Manhole	600
9.002	o	225	SA7F	75.363	73.478	1.660	Open Manhole	600
9.003	o	450	SA7	75.219	72.600	2.169	Open Manhole	1500
9.004	o	450	TANK 1	75.230	72.580	2.200	Junction	

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)
7.000	4.692	79.5	SA5C	75.327	74.221	0.956	Open Manhole	450
7.001	3.264	48.0	SA5D	75.325	74.153	1.022	Open Manhole	600
6.001	17.239	44.4	SA5E	75.399	73.232	1.942	Open Manhole	600
6.002	18.934	85.7	SA5	75.208	73.011	1.972	Open Manhole	1500
2.005	43.458	400.0	SA6	75.398	72.591	2.357	Open Manhole	1500
8.000	10.932	100.3	SA6	75.398	73.591	1.657	Open Manhole	1500
2.006	19.972	400.0	SA8	75.335	72.541	2.344	Open Manhole	2100
9.000	28.309	60.0	SA7E	75.350	73.728	1.397	Open Manhole	600
9.001	15.020	60.1	SA7F	75.363	73.478	1.660	Open Manhole	600
9.002	11.573	100.0	SA7	75.219	73.362	1.632	Open Manhole	1500
9.003	5.868	300.0	TANK 1	75.230	72.580	2.200	Junction	
9.004	7.661	300.0	SA8A	75.276	72.554	2.272	Open Manhole	1500

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PIPELINE SCHEDULES for SW West

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)
9.005	o	450	SA8A	75.276	72.546	2.280	Open Manhole	1500
2.007	o	300	SA8	75.335	72.519	2.441	Open Manhole	2100
2.008	o	300	CA1	75.488	71.860	3.253	Open Manhole	1500
2.009	o	300	CA2	75.198	71.318	3.580	Open Manhole	1500
2.010	o	300	CA3	74.199	70.204	3.695	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)
9.005	8.002	300.0	SA8	75.335	72.519	2.366	Open Manhole	2100
2.007	7.791	99.9	CA1	75.488	72.441	2.672	Open Manhole	1500
2.008	27.125	50.0	CA2	75.198	71.318	3.506	Open Manhole	1500
2.009	55.684	50.0	CA3	74.199	70.204	3.695	Open Manhole	1200
2.010	4.777	50.0	c2 outfall	73.200	70.108	2.792	Open Manhole	750

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Area Summary for SW West

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
2.000	-	-	100	0.045	0.045	0.045
2.001	-	-	100	0.111	0.111	0.111
2.002	-	-	100	0.000	0.000	0.000
2.003	-	-	100	0.000	0.000	0.000
3.000	-	-	100	0.020	0.020	0.020
4.000	-	-	100	0.021	0.021	0.021
3.001	-	-	100	0.026	0.026	0.026
5.000	-	-	100	0.030	0.030	0.030
3.002	-	-	100	0.036	0.036	0.036
2.004	-	-	100	0.025	0.025	0.025
6.000	-	-	100	0.134	0.134	0.134
7.000	-	-	100	0.024	0.024	0.024
7.001	-	-	100	0.000	0.000	0.000
6.001	-	-	100	0.000	0.000	0.000
6.002	-	-	100	0.000	0.000	0.000
2.005	-	-	100	0.047	0.047	0.047
8.000	-	-	100	0.014	0.014	0.014
2.006	-	-	100	0.000	0.000	0.000
9.000	-	-	100	0.130	0.130	0.130
9.001	-	-	100	0.000	0.000	0.000
9.002	-	-	100	0.000	0.000	0.000
9.003	-	-	100	0.000	0.000	0.000
9.004	-	-	100	0.000	0.000	0.000
9.005	-	-	100	0.079	0.079	0.079
2.007	-	-	100	0.000	0.000	0.000
2.008	-	-	100	0.000	0.000	0.000
2.009	-	-	100	0.000	0.000	0.000
2.010	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.742	0.742	0.742

Surcharged Outfall Details for SW West

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
2.010	c2 outfall	73.200	70.108	0.000	750	0

Datum (m) 65.300 Offset (mins) 0

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Surcharged Outfall Details for SW West

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
60	1.750	300	1.750	540	1.750	780	1.750	1020	1.750	1260	1.750
120	1.750	360	1.750	600	1.750	840	1.750	1080	1.750	1320	1.750
180	1.750	420	1.750	660	1.750	900	1.750	1140	1.750	1380	1.750
240	1.750	480	1.750	720	1.750	960	1.750	1200	1.750	1440	1.750

Simulation Criteria for SW West

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	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 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	Profile Type	Summer
Return Period (years)	1	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.500	Storm Duration (mins)	30
Ratio R	0.347		

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Online Controls for SW West

Complex Manhole: SA8, DS/PN: 2.007, Volume (m³): 13.6

Hydro-Brake® Optimum

Unit Reference	MD-SHE-0309-5600-1000-5600
Design Head (m)	1.000
Design Flow (l/s)	56.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	309
Invert Level (m)	72.519
Minimum Outlet Pipe Diameter (mm)	375
Suggested Manhole Diameter (mm)	1800

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.000	56.0	Kick-Flo®	0.793	50.1
Flush-Flo™	0.459	56.0	Mean Flow over Head Range	-	44.6

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	9.4	1.200	61.1	3.000	95.3	7.000	144.2
0.200	31.7	1.400	65.9	3.500	102.8	7.500	149.1
0.300	53.9	1.600	70.3	4.000	109.7	8.000	153.9
0.400	55.7	1.800	74.4	4.500	116.2	8.500	158.5
0.500	55.9	2.000	78.3	5.000	122.3	9.000	163.0
0.600	55.0	2.200	82.0	5.500	128.1	9.500	167.4
0.800	50.3	2.400	85.5	6.000	133.7		
1.000	56.0	2.600	88.9	6.500	139.0		

Orifice

Diameter (m) 0.135 Discharge Coefficient 0.600 Invert Level (m) 73.319

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Storage Structures for SW West

Cellular Storage Manhole: TANK 1, DS/PN: 9.004

Invert Level (m) 72.580 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	40.0	0.0	2.001	0.0	0.0
2.000	40.0	0.0			

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Summary of Critical Results by Maximum Level (Rank 1) for SW West

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	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	Ratio R	0.347
Region	England and Wales	Cv (Summer)	0.740
M5-60 (mm)	18.500	Cv (Winter)	0.850

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
2.000	1	15 Winter	100	+40%	100/15 Summer	100/15 Winter			75.210
2.001	SA3B	15 Winter	100	+40%	100/15 Summer				75.204
2.002	SA3G	30 Winter	100	+40%	30/15 Summer				74.899
2.003	SA3	30 Winter	100	+40%	30/15 Summer				74.829
3.000	SA4A	30 Winter	100	+40%	100/15 Summer				74.925
4.000	SA4B	30 Winter	100	+40%	100/15 Summer				74.911
3.001	SA4C	30 Winter	100	+40%	100/15 Summer				74.899
5.000	SA4D	30 Winter	100	+40%	100/15 Winter				74.878
3.002	SA4E	30 Winter	100	+40%	100/15 Summer				74.860
2.004	SA4	30 Winter	100	+40%	30/15 Summer				74.743
6.000	SA5A	15 Winter	100	+40%	100/15 Summer				75.017
7.000	SA5B	30 Winter	100	+40%	100/15 Summer				74.865
7.001	SA5C	30 Winter	100	+40%	100/15 Summer				74.853
6.001	SA5D	30 Winter	100	+40%	100/15 Summer				74.845
6.002	SA5E	30 Winter	100	+40%	30/15 Winter				74.707

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PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
2.000	1	1.185	0.387	0.33		18.7	FLOOD	1
2.001	SA3B	1.357	0.000	1.31		64.3	FLOOD RISK	
2.002	SA3G	1.478	0.000	0.98		54.3	SURCHARGED	
2.003	SA3	1.448	0.000	0.83		53.5	FLOOD RISK	
3.000	SA4A	0.875	0.000	0.47		8.0	SURCHARGED	
4.000	SA4B	0.511	0.000	0.22		8.9	SURCHARGED	
3.001	SA4C	1.024	0.000	0.51		24.0	SURCHARGED	
5.000	SA4D	0.328	0.000	0.84		13.1	SURCHARGED	
3.002	SA4E	1.195	0.000	0.87		48.1	SURCHARGED	
2.004	SA4	1.481	0.000	1.66		105.9	SURCHARGED	
6.000	SA5A	0.992	0.000	1.23		60.6	SURCHARGED	
7.000	SA5B	0.435	0.000	0.69		10.5	SURCHARGED	
7.001	SA5C	0.482	0.000	0.63		10.4	SURCHARGED	
6.001	SA5D	1.000	0.000	0.79		55.4	SURCHARGED	
6.002	SA5E	1.250	0.000	1.08		54.5	SURCHARGED	

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
2.005	SA5	30 Winter	100	+40%	30/15 Summer				74.613
8.000	SA6B	30 Winter	100	+40%	100/15 Summer				74.586
2.006	SA6	30 Winter	100	+40%	30/15 Summer				74.570
9.000	SA7A	30 Winter	100	+40%	100/15 Summer				74.648
9.001	SA7E	30 Winter	100	+40%	100/15 Summer				74.602
9.002	SA7F	30 Winter	100	+40%	100/15 Summer				74.571
9.003	SA7	30 Winter	100	+40%	30/15 Summer				74.547
9.004	TANK 1	30 Winter	100	+40%	30/15 Summer				74.544
9.005	SA8A	30 Winter	100	+40%	30/15 Summer				74.540
2.007	SA8	30 Winter	100	+40%	30/15 Summer				74.532
2.008	CA1	30 Winter	100	+40%					72.071
2.009	CA2	30 Winter	100	+40%					71.522
2.010	CA3	30 Winter	100	+40%	100/15 Summer				70.620

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
2.005	SA5	1.463	0.000	1.18		169.9	SURCHARGED	
8.000	SA6B	0.786	0.000	1.03		6.0	SURCHARGED	
2.006	SA6	1.529	0.000	1.30		168.3	SURCHARGED	
9.000	SA7A	0.223	0.000	0.88		57.2	SURCHARGED	
9.001	SA7E	0.649	0.000	0.95		55.9	SURCHARGED	
9.002	SA7F	0.868	0.000	1.22		53.9	SURCHARGED	
9.003	SA7	1.497	0.000	0.39		44.0	SURCHARGED	
9.004	TANK 1	1.514	0.000	0.30		51.1	SURCHARGED*	
9.005	SA8A	1.544	0.000	0.44		54.1	SURCHARGED	
2.007	SA8	1.713	0.000	1.70		119.3	SURCHARGED	
2.008	CA1	-0.089	0.000	0.84		119.3	OK	
2.009	CA2	-0.096	0.000	0.80		119.0	OK	
2.010	CA3	0.116	0.000	1.54		119.2	SURCHARGED	

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