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Victoria Court 22 St Pancras West Sussex PO19 7GD	34 Hurst Road, Hassocks Surface Water Drainage Design Simulation Rev03	
Date Nov 25	Designed by JS	
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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table 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)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

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	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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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)	Backd (mm)
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.700	0.600	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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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)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.700	63.100	0.490	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)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.700	63.240	0.350	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

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)
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1.004	Dummy	63.800	63.085	63.100	600	0
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Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	720
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	6

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		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	360
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m) Flow (l/s)

0.700 0.0400

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Storage Structures for Storm

cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	30.0	30.0	0.500	0.0	43.6
0.400	30.0	43.6			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 7.7
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 360 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.412	-0.098	0.000	0.03	0.0	0.7	OK
1.001	S1	63.681	0.077	0.000	0.20	0.0	1.3	SURCHARGED
2.000	RE2	65.413	-0.097	0.000	0.03	0.0	0.7	OK
2.001	S2	65.015	-0.095	0.000	0.05	0.0	1.3	OK
1.002	S3	63.680	0.126	0.000	0.37	0.0	2.7	SURCHARGED
1.003	S4	63.680	0.320	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.615	0.405	0.000	0.01	0.0	0.0	SURCHARGED

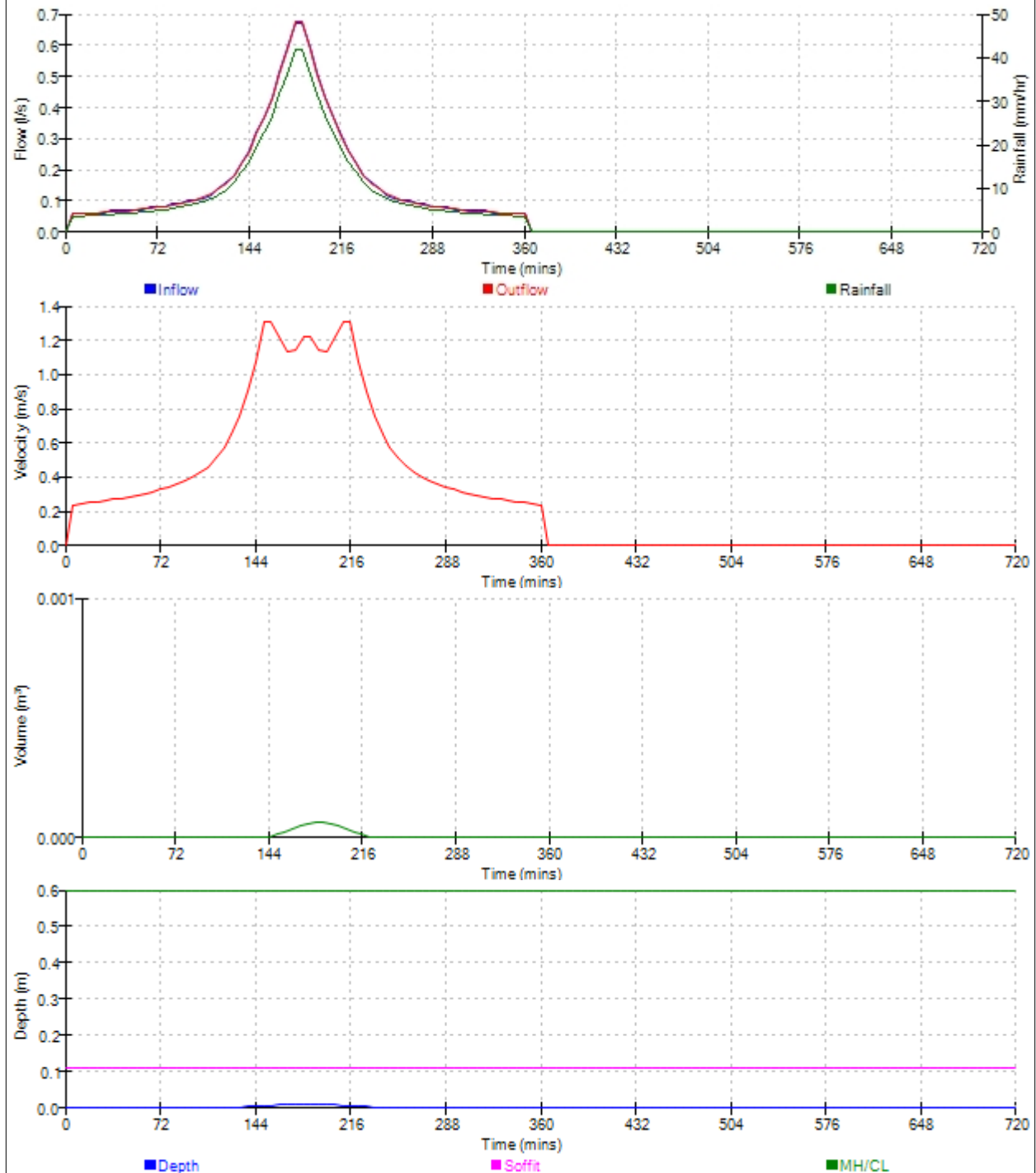
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Rainfall Hyetograph for 360 minute 100 year Summer (Storm)

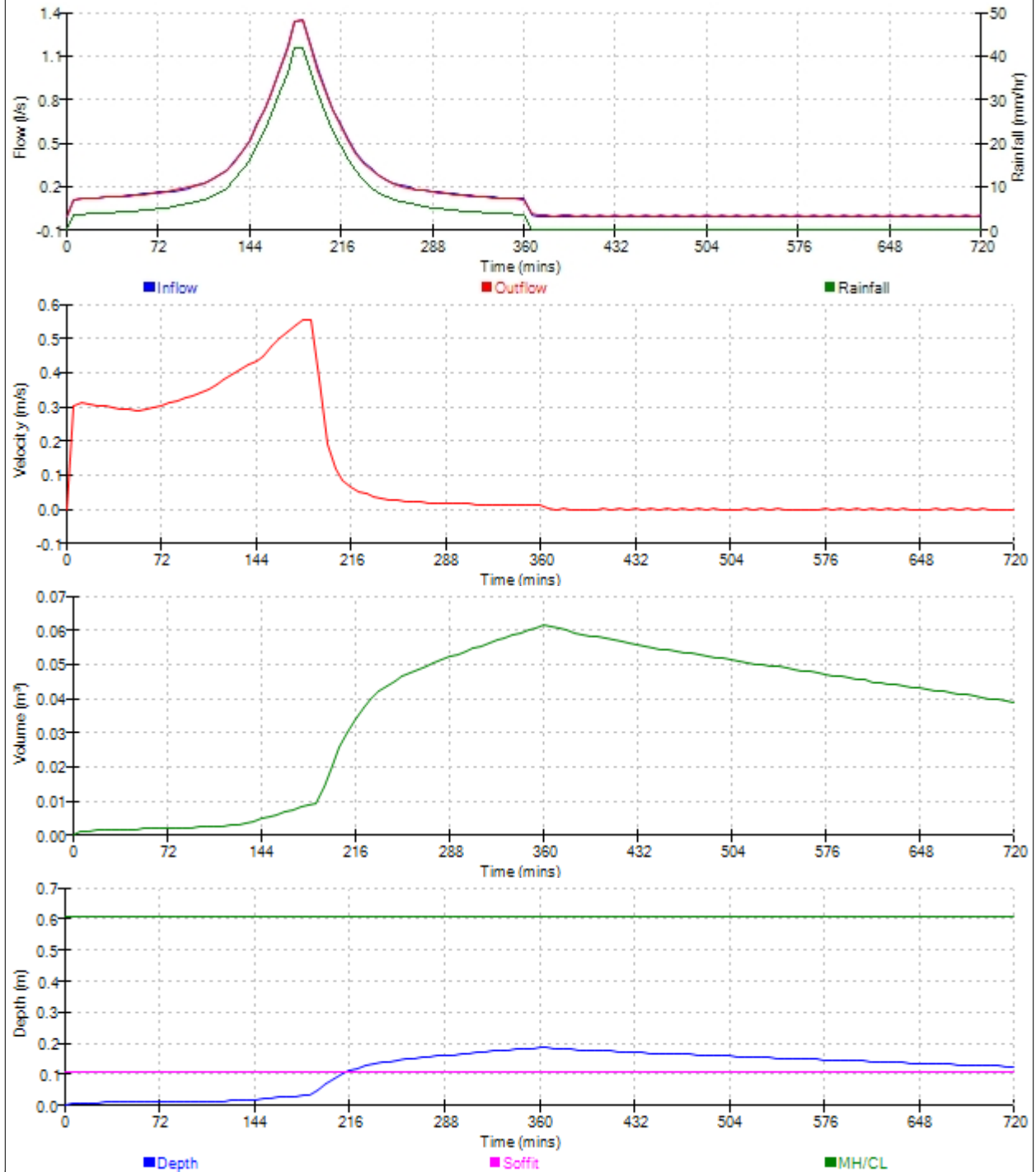
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6	3.584	78	5.177	150	19.601	222	16.106	294	4.934
12	3.673	84	5.442	156	23.008	228	13.606	300	4.757
18	3.761	90	5.708	162	26.681	234	11.438	306	4.580
24	3.872	96	6.062	168	31.460	240	9.756	312	4.381
30	3.960	102	6.438	174	36.327	246	8.628	318	4.226
36	4.049	108	6.947	180	41.858	252	7.699	324	4.137
42	4.137	114	7.699	186	41.858	258	6.947	330	4.049
48	4.226	120	8.628	192	36.327	264	6.438	336	3.960
54	4.380	126	9.756	198	31.460	270	6.062	342	3.872
60	4.580	132	11.438	204	26.681	276	5.708	348	3.761
66	4.757	138	13.606	210	23.008	282	5.442	354	3.673
72	4.934	144	16.106	216	19.601	288	5.177	360	3.584

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Graphs for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Summer
Status: OK

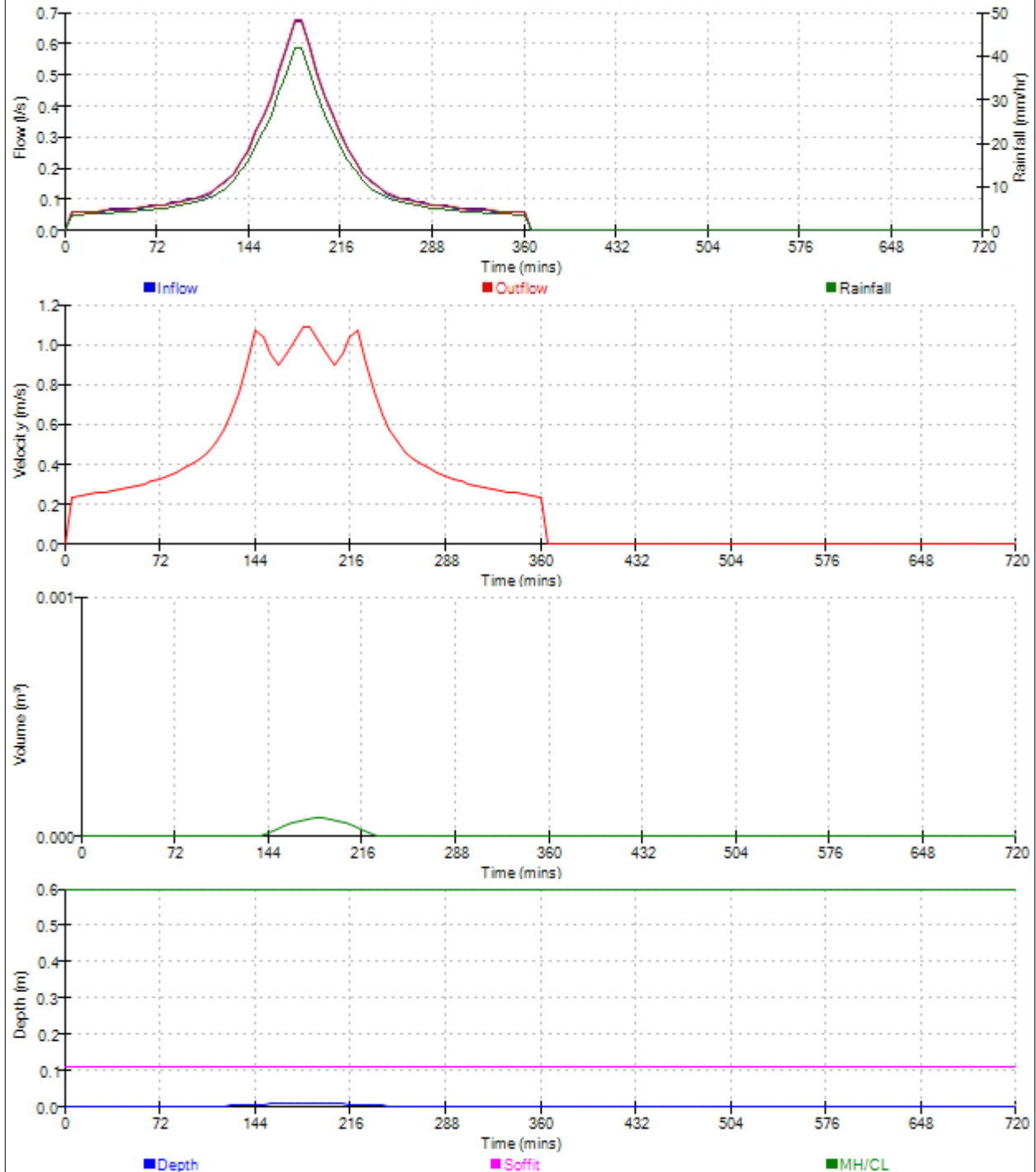


Graphs for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Summer
Status: SURCHARGED



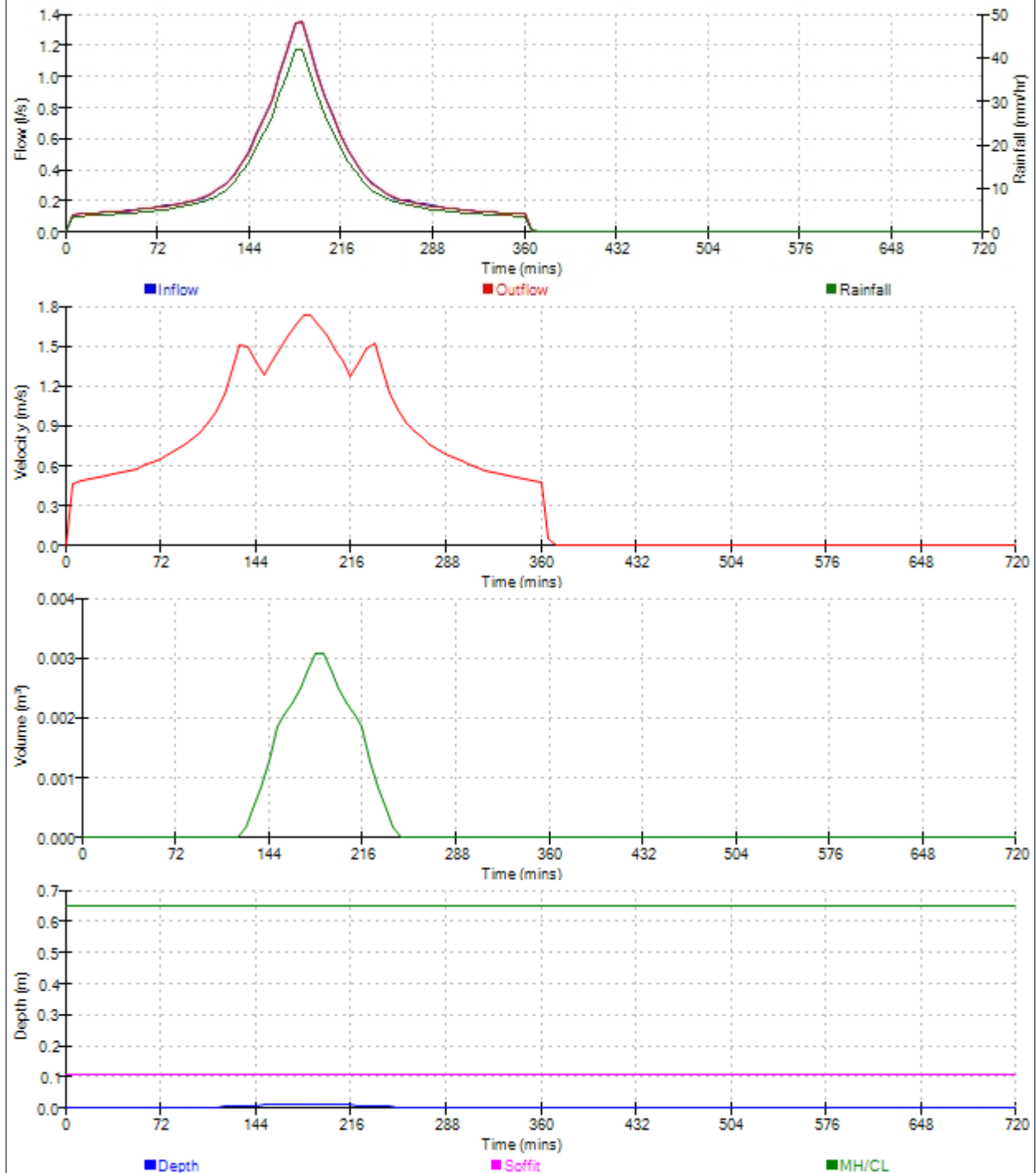
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Summer
Status: OK



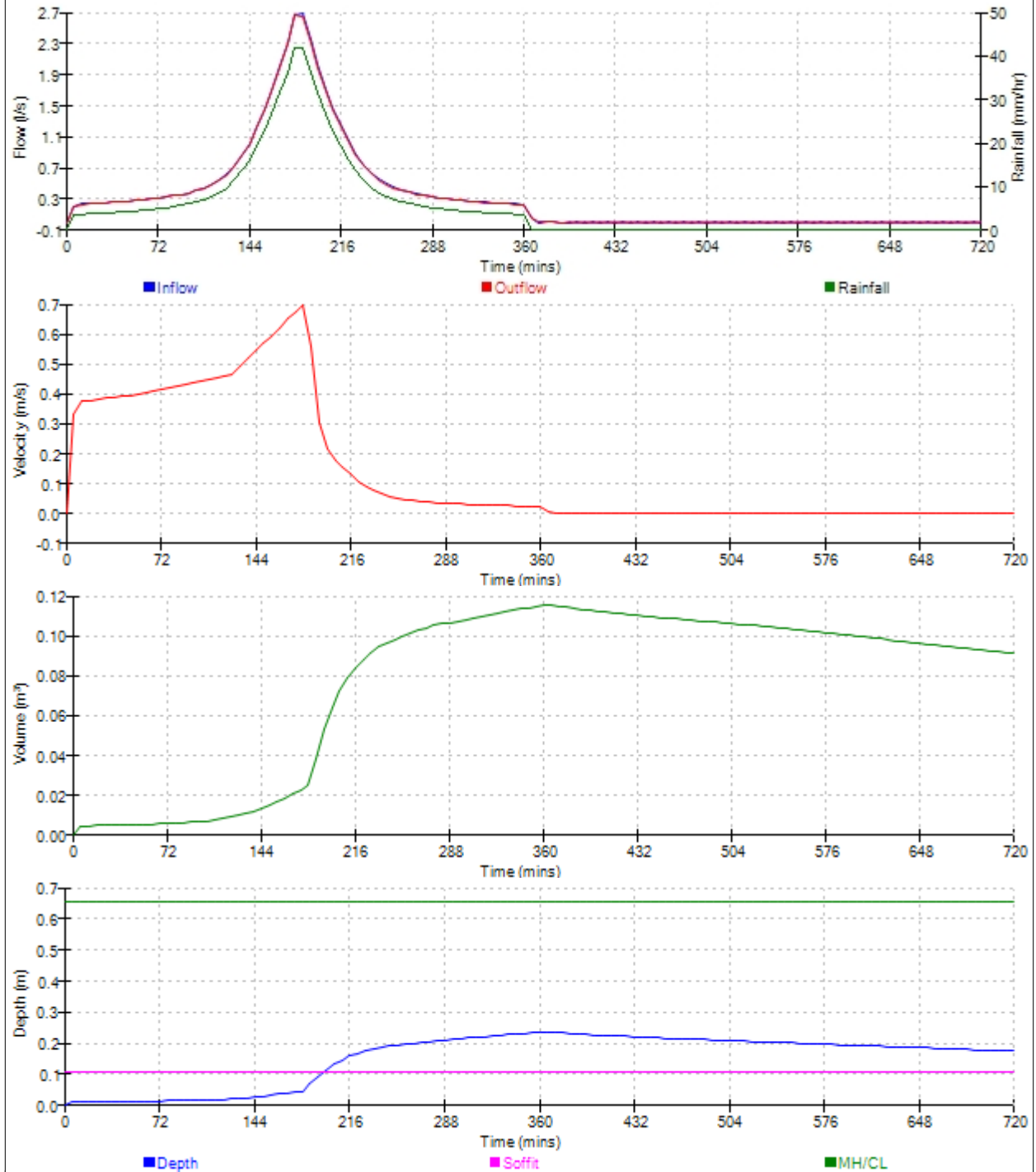
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Graphs for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Summer
Status: OK

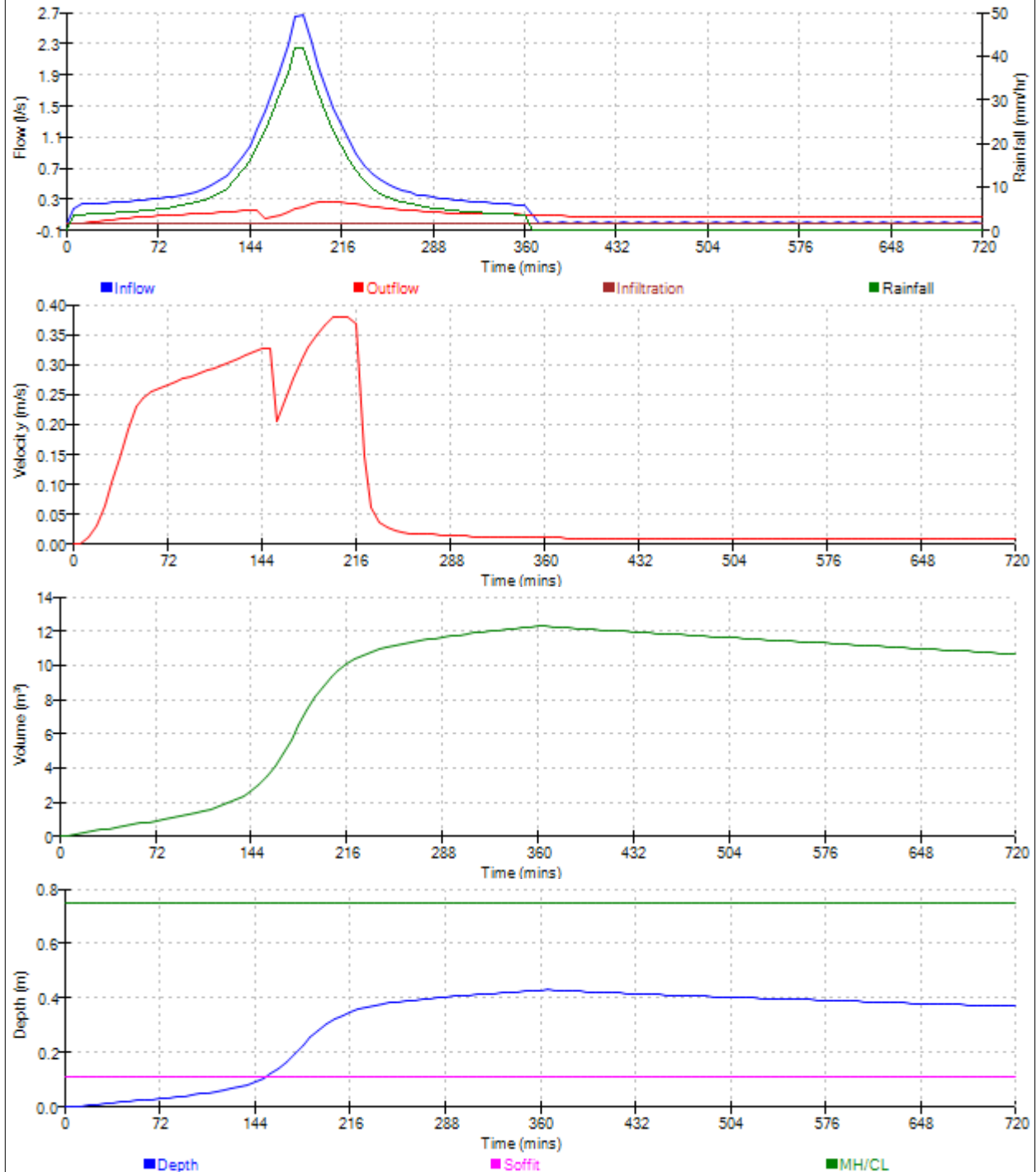


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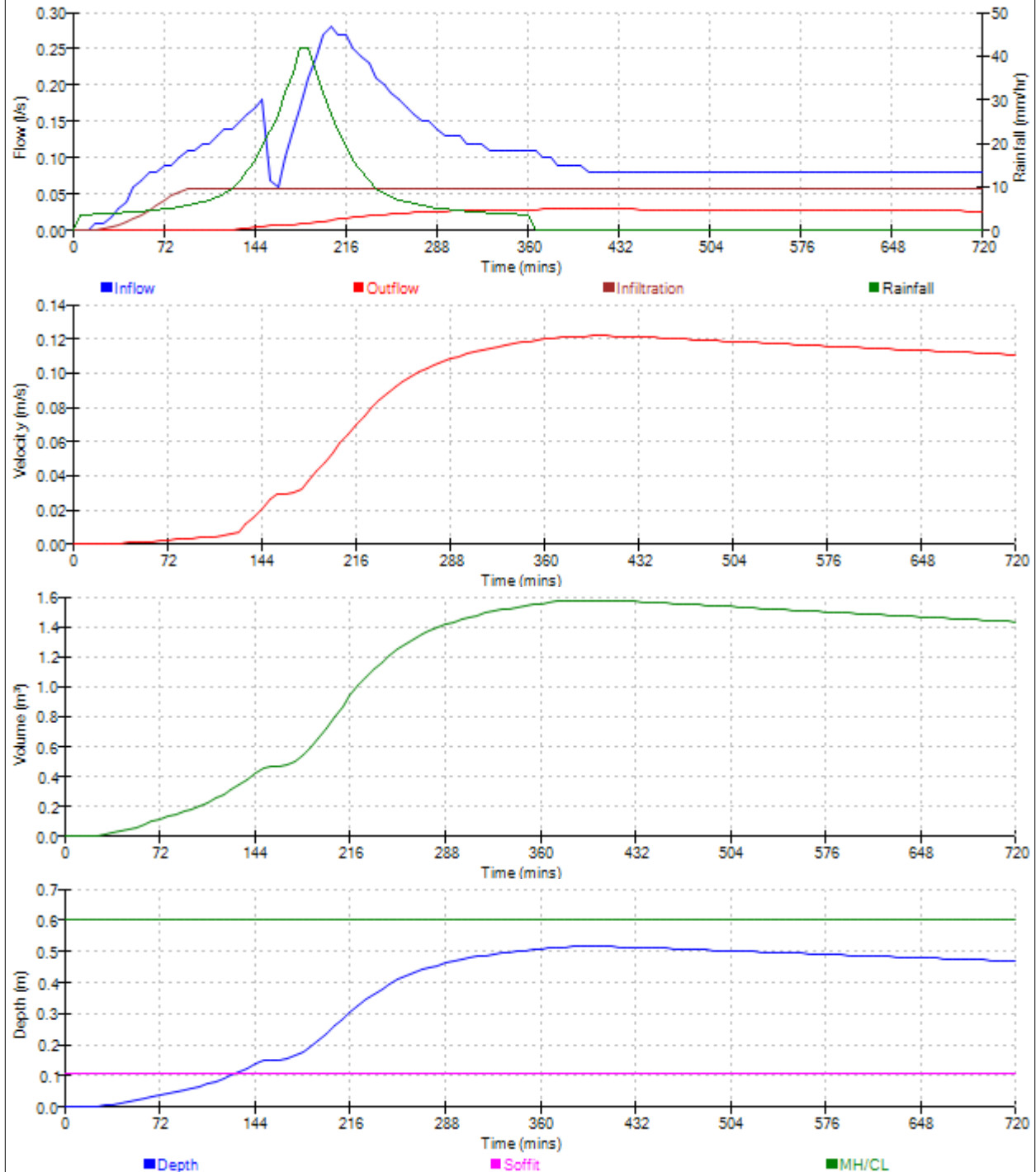
Graphs for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Summer
Status: SURCHARGED



Graphs for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Summer
Status: SURCHARGED



Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Summer
Status: SURCHARGED



Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.401	63.503	-0.109	0.0	0.2	0.1
12	65.401	63.503	-0.109	0.0	0.2	0.1
18	65.401	63.504	-0.109	0.0	0.3	0.1
24	65.401	63.504	-0.109	0.0	0.3	0.1
30	65.401	63.504	-0.109	0.0	0.3	0.1
36	65.401	63.504	-0.109	0.0	0.3	0.1
42	65.401	63.504	-0.109	0.0	0.3	0.1
48	65.401	63.505	-0.109	0.0	0.3	0.1
54	65.401	63.505	-0.109	0.0	0.3	0.1
60	65.402	63.505	-0.108	0.0	0.3	0.1
66	65.402	63.505	-0.108	0.0	0.3	0.1
72	65.402	63.506	-0.108	0.0	0.3	0.1
78	65.402	63.506	-0.108	0.0	0.3	0.1
84	65.402	63.506	-0.108	0.0	0.4	0.1
90	65.402	63.506	-0.108	0.0	0.4	0.1
96	65.402	63.506	-0.108	0.0	0.4	0.1
102	65.402	63.507	-0.108	0.0	0.4	0.1
108	65.402	63.507	-0.108	0.0	0.5	0.1
114	65.403	63.508	-0.107	0.0	0.5	0.1
120	65.403	63.508	-0.107	0.0	0.6	0.1
126	65.403	63.509	-0.107	0.0	0.6	0.2
132	65.404	63.511	-0.106	0.0	0.8	0.2
138	65.404	63.512	-0.106	0.0	0.9	0.2
144	65.405	63.514	-0.105	0.0	1.1	0.3
150	65.406	63.517	-0.104	0.0	1.3	0.3
156	65.408	63.518	-0.102	0.0	1.3	0.4
162	65.409	63.520	-0.101	0.0	1.2	0.4
168	65.410	63.522	-0.100	0.0	1.1	0.5
174	65.411	63.525	-0.099	0.0	1.1	0.6
180	65.412	63.527	-0.098	0.0	1.2	0.7
186	65.412	63.528	-0.098	0.0	1.2	0.7
192	65.411	63.544	-0.099	0.0	1.1	0.6
198	65.410	63.564	-0.100	0.0	1.1	0.5
204	65.409	63.580	-0.101	0.0	1.2	0.4
210	65.408	63.594	-0.102	0.0	1.3	0.4
216	65.406	63.606	-0.104	0.0	1.3	0.3
222	65.405	63.614	-0.105	0.0	1.1	0.3
228	65.404	63.622	-0.106	0.0	0.9	0.2
234	65.404	63.627	-0.106	0.0	0.8	0.2
240	65.403	63.632	-0.107	0.0	0.6	0.2
246	65.403	63.636	-0.107	0.0	0.6	0.1
252	65.403	63.640	-0.107	0.0	0.5	0.1
258	65.402	63.643	-0.108	0.0	0.5	0.1
264	65.402	63.645	-0.108	0.0	0.4	0.1
270	65.402	63.648	-0.108	0.0	0.4	0.1
276	65.402	63.651	-0.108	0.0	0.4	0.1
282	65.402	63.653	-0.108	0.0	0.4	0.1
288	65.402	63.655	-0.108	0.0	0.3	0.1
294	65.402	63.658	-0.108	0.0	0.3	0.1
300	65.402	63.660	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
306	65.401	63.662	-0.109	0.0	0.3	0.1
312	65.401	63.664	-0.109	0.0	0.3	0.1
318	65.401	63.666	-0.109	0.0	0.3	0.1
324	65.401	63.669	-0.109	0.0	0.3	0.1
330	65.401	63.671	-0.109	0.0	0.3	0.1
336	65.401	63.673	-0.109	0.0	0.3	0.1
342	65.401	63.675	-0.109	0.0	0.3	0.1
348	65.401	63.677	-0.109	0.0	0.3	0.1
354	65.401	63.679	-0.109	0.0	0.2	0.1
360	65.401	63.681	-0.109	0.0	0.2	0.1
366	65.400	63.679	-0.110	0.0	0.0	0.0
372	65.400	63.678	-0.110	0.0	0.0	0.0
378	65.400	63.677	-0.110	0.0	0.0	0.0
384	65.400	63.675	-0.110	0.0	0.0	0.0
390	65.400	63.674	-0.110	0.0	0.0	0.0
396	65.400	63.672	-0.110	0.0	0.0	0.0
402	65.400	63.671	-0.110	0.0	0.0	0.0
408	65.400	63.670	-0.110	0.0	0.0	0.0
414	65.400	63.669	-0.110	0.0	0.0	0.0
420	65.400	63.667	-0.110	0.0	0.0	0.0
426	65.400	63.666	-0.110	0.0	0.0	0.0
432	65.400	63.665	-0.110	0.0	0.0	0.0
438	65.400	63.664	-0.110	0.0	0.0	0.0
444	65.400	63.663	-0.110	0.0	0.0	0.0
450	65.400	63.662	-0.110	0.0	0.0	0.0
456	65.400	63.660	-0.110	0.0	0.0	0.0
462	65.400	63.660	-0.110	0.0	0.0	0.0
468	65.400	63.659	-0.110	0.0	0.0	0.0
474	65.400	63.658	-0.110	0.0	0.0	0.0
480	65.400	63.657	-0.110	0.0	0.0	0.0
486	65.400	63.656	-0.110	0.0	0.0	0.0
492	65.400	63.655	-0.110	0.0	0.0	0.0
498	65.400	63.654	-0.110	0.0	0.0	0.0
504	65.400	63.653	-0.110	0.0	0.0	0.0
510	65.400	63.652	-0.110	0.0	0.0	0.0
516	65.400	63.650	-0.110	0.0	0.0	0.0
522	65.400	63.650	-0.110	0.0	0.0	0.0
528	65.400	63.649	-0.110	0.0	0.0	0.0
534	65.400	63.648	-0.110	0.0	0.0	0.0
540	65.400	63.647	-0.110	0.0	0.0	0.0
546	65.400	63.646	-0.110	0.0	0.0	0.0
552	65.400	63.645	-0.110	0.0	0.0	0.0
558	65.400	63.644	-0.110	0.0	0.0	0.0
564	65.400	63.643	-0.110	0.0	0.0	0.0
570	65.400	63.642	-0.110	0.0	0.0	0.0
576	65.400	63.641	-0.110	0.0	0.0	0.0
582	65.400	63.640	-0.110	0.0	0.0	0.0
588	65.400	63.639	-0.110	0.0	0.0	0.0
594	65.400	63.638	-0.110	0.0	0.0	0.0
600	65.400	63.638	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
606	65.400	63.637	-0.110	0.0	0.0	0.0
612	65.400	63.635	-0.110	0.0	0.0	0.0
618	65.400	63.635	-0.110	0.0	0.0	0.0
624	65.400	63.634	-0.110	0.0	0.0	0.0
630	65.400	63.633	-0.110	0.0	0.0	0.0
636	65.400	63.632	-0.110	0.0	0.0	0.0
642	65.400	63.631	-0.110	0.0	0.0	0.0
648	65.400	63.630	-0.110	0.0	0.0	0.0
654	65.400	63.629	-0.110	0.0	0.0	0.0
660	65.400	63.628	-0.110	0.0	0.0	0.0
666	65.400	63.627	-0.110	0.0	0.0	0.0
672	65.400	63.626	-0.110	0.0	0.0	0.0
678	65.400	63.625	-0.110	0.0	0.0	0.0
684	65.400	63.624	-0.110	0.0	0.0	0.0
690	65.400	63.624	-0.110	0.0	0.0	0.0
696	65.400	63.622	-0.110	0.0	0.0	0.0
702	65.400	63.622	-0.110	0.0	0.0	0.0
708	65.400	63.621	-0.110	0.0	0.0	0.0
714	65.400	63.620	-0.110	0.0	0.0	0.0
720	65.400	63.619	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.503	63.457	-0.101	0.0	0.3	0.1
12	63.503	63.457	-0.101	0.0	0.3	0.1
18	63.504	63.457	-0.101	0.0	0.3	0.1
24	63.504	63.457	-0.100	0.0	0.3	0.1
30	63.504	63.457	-0.100	0.0	0.3	0.1
36	63.504	63.458	-0.100	0.0	0.3	0.1
42	63.504	63.458	-0.100	0.0	0.3	0.1
48	63.505	63.458	-0.099	0.0	0.3	0.1
54	63.505	63.458	-0.099	0.0	0.3	0.1
60	63.505	63.458	-0.099	0.0	0.3	0.1
66	63.505	63.459	-0.099	0.0	0.3	0.2
72	63.506	63.459	-0.099	0.0	0.3	0.2
78	63.506	63.459	-0.098	0.0	0.3	0.2
84	63.506	63.460	-0.098	0.0	0.3	0.2
90	63.506	63.460	-0.098	0.0	0.3	0.2
96	63.506	63.461	-0.098	0.0	0.3	0.2
102	63.507	63.461	-0.097	0.0	0.3	0.2
108	63.507	63.462	-0.097	0.0	0.4	0.2
114	63.508	63.463	-0.096	0.0	0.4	0.2
120	63.508	63.464	-0.096	0.0	0.4	0.3
126	63.509	63.466	-0.095	0.0	0.4	0.3
132	63.511	63.468	-0.093	0.0	0.4	0.4
138	63.512	63.470	-0.092	0.0	0.4	0.4
144	63.514	63.472	-0.090	0.0	0.4	0.5
150	63.517	63.475	-0.087	0.0	0.4	0.6
156	63.518	63.478	-0.086	0.0	0.5	0.7
162	63.520	63.481	-0.084	0.0	0.5	0.9
168	63.522	63.484	-0.082	0.0	0.5	1.0
174	63.525	63.487	-0.079	0.0	0.5	1.2
180	63.527	63.491	-0.077	0.0	0.6	1.3
186	63.528	63.514	-0.076	0.0	0.6	1.3
192	63.544	63.539	-0.061	0.0	0.4	1.2
198	63.564	63.559	-0.040	0.0	0.2	1.0
204	63.580	63.577	-0.024	0.0	0.1	0.8
210	63.594	63.591	-0.010	0.0	0.1	0.7
216	63.606	63.603	0.001	0.0	0.1	0.6
222	63.614	63.612	0.010	0.0	0.1	0.5
228	63.622	63.620	0.017	0.0	0.0	0.4
234	63.627	63.626	0.023	0.0	0.0	0.4
240	63.632	63.631	0.028	0.0	0.0	0.3
246	63.636	63.635	0.032	0.0	0.0	0.3
252	63.640	63.638	0.035	0.0	0.0	0.2
258	63.643	63.642	0.039	0.0	0.0	0.2
264	63.645	63.645	0.041	0.0	0.0	0.2
270	63.648	63.647	0.044	0.0	0.0	0.2
276	63.651	63.650	0.047	0.0	0.0	0.2
282	63.653	63.652	0.049	0.0	0.0	0.2
288	63.655	63.655	0.051	0.0	0.0	0.2
294	63.658	63.657	0.053	0.0	0.0	0.2
300	63.660	63.659	0.056	0.0	0.0	0.2

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
306	63.662	63.661	0.058	0.0	0.0	0.1
312	63.664	63.664	0.060	0.0	0.0	0.1
318	63.666	63.666	0.062	0.0	0.0	0.1
324	63.669	63.668	0.064	0.0	0.0	0.1
330	63.671	63.670	0.067	0.0	0.0	0.1
336	63.673	63.672	0.069	0.0	0.0	0.1
342	63.675	63.674	0.071	0.0	0.0	0.1
348	63.677	63.677	0.073	0.0	0.0	0.1
354	63.679	63.678	0.075	0.0	0.0	0.1
360	63.681	63.680	0.077	0.0	0.0	0.1
366	63.679	63.680	0.075	0.0	0.0	0.0
372	63.678	63.678	0.074	0.0	0.0	0.0
378	63.677	63.677	0.073	0.0	0.0	0.0
384	63.675	63.675	0.071	0.0	0.0	0.0
390	63.674	63.674	0.070	0.0	0.0	0.0
396	63.672	63.672	0.068	0.0	0.0	0.0
402	63.671	63.671	0.067	0.0	0.0	0.0
408	63.670	63.670	0.066	0.0	0.0	0.0
414	63.669	63.669	0.064	0.0	0.0	0.0
420	63.667	63.668	0.063	0.0	0.0	0.0
426	63.666	63.666	0.062	0.0	0.0	0.0
432	63.665	63.665	0.061	0.0	0.0	0.0
438	63.664	63.664	0.060	0.0	0.0	0.0
444	63.663	63.663	0.059	0.0	0.0	0.0
450	63.662	63.662	0.058	0.0	0.0	0.0
456	63.660	63.661	0.056	0.0	0.0	0.0
462	63.660	63.660	0.055	0.0	0.0	0.0
468	63.659	63.659	0.055	0.0	0.0	0.0
474	63.658	63.658	0.054	0.0	0.0	0.0
480	63.657	63.657	0.052	0.0	0.0	0.0
486	63.656	63.656	0.051	0.0	0.0	0.0
492	63.655	63.655	0.051	0.0	0.0	0.0
498	63.654	63.654	0.050	0.0	0.0	0.0
504	63.653	63.653	0.049	0.0	0.0	0.0
510	63.652	63.652	0.047	0.0	0.0	0.0
516	63.650	63.651	0.046	0.0	0.0	0.0
522	63.650	63.650	0.046	0.0	0.0	0.0
528	63.649	63.649	0.045	0.0	0.0	0.0
534	63.648	63.648	0.044	0.0	0.0	0.0
540	63.647	63.647	0.043	0.0	0.0	0.0
546	63.646	63.646	0.042	0.0	0.0	0.0
552	63.645	63.645	0.041	0.0	0.0	0.0
558	63.644	63.644	0.040	0.0	0.0	0.0
564	63.643	63.643	0.039	0.0	0.0	0.0
570	63.642	63.642	0.038	0.0	0.0	0.0
576	63.641	63.641	0.037	0.0	0.0	0.0
582	63.640	63.640	0.036	0.0	0.0	0.0
588	63.639	63.640	0.035	0.0	0.0	0.0
594	63.638	63.639	0.034	0.0	0.0	0.0
600	63.638	63.638	0.033	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.637	63.637	0.032	0.0	0.0	0.0
612	63.635	63.636	0.031	0.0	0.0	0.0
618	63.635	63.635	0.031	0.0	0.0	0.0
624	63.634	63.634	0.030	0.0	0.0	0.0
630	63.633	63.633	0.029	0.0	0.0	0.0
636	63.632	63.632	0.028	0.0	0.0	0.0
642	63.631	63.631	0.027	0.0	0.0	0.0
648	63.630	63.630	0.026	0.0	0.0	0.0
654	63.629	63.629	0.025	0.0	0.0	0.0
660	63.628	63.628	0.024	0.0	0.0	0.0
666	63.627	63.627	0.023	0.0	0.0	0.0
672	63.626	63.626	0.022	0.0	0.0	0.0
678	63.625	63.626	0.021	0.0	0.0	0.0
684	63.624	63.625	0.020	0.0	0.0	0.0
690	63.624	63.624	0.019	0.0	0.0	0.0
696	63.622	63.622	0.018	0.0	0.0	0.0
702	63.622	63.622	0.018	0.0	0.0	0.0
708	63.621	63.621	0.017	0.0	0.0	0.0
714	63.620	63.620	0.016	0.0	0.0	0.0
720	63.619	63.619	0.015	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.401	65.002	-0.109	0.0	0.2	0.1
12	65.401	65.002	-0.109	0.0	0.2	0.1
18	65.402	65.002	-0.108	0.0	0.3	0.1
24	65.402	65.002	-0.108	0.0	0.3	0.1
30	65.402	65.002	-0.108	0.0	0.3	0.1
36	65.402	65.002	-0.108	0.0	0.3	0.1
42	65.402	65.002	-0.108	0.0	0.3	0.1
48	65.402	65.002	-0.108	0.0	0.3	0.1
54	65.402	65.002	-0.108	0.0	0.3	0.1
60	65.402	65.003	-0.108	0.0	0.3	0.1
66	65.402	65.003	-0.108	0.0	0.3	0.1
72	65.402	65.003	-0.108	0.0	0.3	0.1
78	65.402	65.003	-0.108	0.0	0.3	0.1
84	65.402	65.003	-0.108	0.0	0.4	0.1
90	65.402	65.003	-0.108	0.0	0.4	0.1
96	65.402	65.003	-0.108	0.0	0.4	0.1
102	65.403	65.004	-0.107	0.0	0.4	0.1
108	65.403	65.004	-0.107	0.0	0.5	0.1
114	65.403	65.004	-0.107	0.0	0.5	0.1
120	65.403	65.005	-0.107	0.0	0.6	0.1
126	65.404	65.006	-0.106	0.0	0.6	0.2
132	65.405	65.007	-0.105	0.0	0.8	0.2
138	65.406	65.008	-0.104	0.0	0.9	0.2
144	65.407	65.009	-0.103	0.0	1.1	0.3
150	65.408	65.011	-0.102	0.0	1.0	0.3
156	65.409	65.012	-0.101	0.0	1.0	0.4
162	65.411	65.012	-0.099	0.0	0.9	0.4
168	65.412	65.013	-0.098	0.0	1.0	0.5
174	65.412	65.014	-0.098	0.0	1.0	0.6
180	65.413	65.015	-0.097	0.0	1.1	0.7
186	65.413	65.015	-0.097	0.0	1.1	0.7
192	65.412	65.014	-0.098	0.0	1.0	0.6
198	65.412	65.013	-0.098	0.0	1.0	0.5
204	65.411	65.012	-0.099	0.0	0.9	0.4
210	65.409	65.012	-0.101	0.0	1.0	0.4
216	65.408	65.011	-0.102	0.0	1.0	0.3
222	65.407	65.009	-0.103	0.0	1.1	0.3
228	65.406	65.008	-0.104	0.0	0.9	0.2
234	65.405	65.007	-0.105	0.0	0.8	0.2
240	65.404	65.006	-0.106	0.0	0.6	0.2
246	65.403	65.005	-0.107	0.0	0.6	0.1
252	65.403	65.004	-0.107	0.0	0.5	0.1
258	65.403	65.004	-0.107	0.0	0.5	0.1
264	65.403	65.004	-0.107	0.0	0.4	0.1
270	65.402	65.003	-0.108	0.0	0.4	0.1
276	65.402	65.003	-0.108	0.0	0.4	0.1
282	65.402	65.003	-0.108	0.0	0.4	0.1
288	65.402	65.003	-0.108	0.0	0.3	0.1
294	65.402	65.003	-0.108	0.0	0.3	0.1
300	65.402	65.003	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
606	65.400	65.000	-0.110	0.0	0.0	0.0
612	65.400	65.000	-0.110	0.0	0.0	0.0
618	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
630	65.400	65.000	-0.110	0.0	0.0	0.0
636	65.400	65.000	-0.110	0.0	0.0	0.0
642	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
654	65.400	65.000	-0.110	0.0	0.0	0.0
660	65.400	65.000	-0.110	0.0	0.0	0.0
666	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
678	65.400	65.000	-0.110	0.0	0.0	0.0
684	65.400	65.000	-0.110	0.0	0.0	0.0
690	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
702	65.400	65.000	-0.110	0.0	0.0	0.0
708	65.400	65.000	-0.110	0.0	0.0	0.0
714	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0

Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.002	63.457	-0.108	0.0	0.5	0.1
12	65.002	63.457	-0.108	0.0	0.5	0.1
18	65.002	63.457	-0.108	0.0	0.5	0.1
24	65.002	63.457	-0.108	0.0	0.5	0.1
30	65.002	63.457	-0.108	0.0	0.5	0.1
36	65.002	63.458	-0.108	0.0	0.5	0.1
42	65.002	63.458	-0.108	0.0	0.5	0.1
48	65.002	63.458	-0.108	0.0	0.6	0.1
54	65.002	63.458	-0.108	0.0	0.6	0.1
60	65.003	63.458	-0.107	0.0	0.6	0.1
66	65.003	63.459	-0.107	0.0	0.6	0.2
72	65.003	63.459	-0.107	0.0	0.7	0.2
78	65.003	63.459	-0.107	0.0	0.7	0.2
84	65.003	63.460	-0.107	0.0	0.7	0.2
90	65.003	63.460	-0.107	0.0	0.8	0.2
96	65.003	63.461	-0.107	0.0	0.8	0.2
102	65.004	63.461	-0.106	0.0	0.9	0.2
108	65.004	63.462	-0.106	0.0	0.9	0.2
114	65.004	63.463	-0.106	0.0	1.0	0.2
120	65.005	63.464	-0.105	0.0	1.1	0.3
126	65.006	63.466	-0.104	0.0	1.3	0.3
132	65.007	63.468	-0.103	0.0	1.5	0.4
138	65.008	63.470	-0.102	0.0	1.5	0.4
144	65.009	63.472	-0.101	0.0	1.4	0.5
150	65.011	63.475	-0.099	0.0	1.3	0.6
156	65.012	63.478	-0.098	0.0	1.4	0.7
162	65.012	63.481	-0.098	0.0	1.5	0.9
168	65.013	63.484	-0.097	0.0	1.6	1.0
174	65.014	63.487	-0.096	0.0	1.7	1.2
180	65.015	63.491	-0.095	0.0	1.7	1.3
186	65.015	63.514	-0.095	0.0	1.7	1.3
192	65.014	63.539	-0.096	0.0	1.7	1.2
198	65.013	63.559	-0.097	0.0	1.6	1.0
204	65.012	63.577	-0.098	0.0	1.5	0.9
210	65.012	63.591	-0.098	0.0	1.4	0.7
216	65.011	63.603	-0.099	0.0	1.3	0.6
222	65.009	63.612	-0.101	0.0	1.4	0.5
228	65.008	63.620	-0.102	0.0	1.5	0.4
234	65.007	63.626	-0.103	0.0	1.5	0.4
240	65.006	63.631	-0.104	0.0	1.3	0.3
246	65.005	63.635	-0.105	0.0	1.2	0.3
252	65.004	63.638	-0.106	0.0	1.0	0.2
258	65.004	63.642	-0.106	0.0	0.9	0.2
264	65.004	63.645	-0.106	0.0	0.9	0.2
270	65.003	63.647	-0.107	0.0	0.8	0.2
276	65.003	63.650	-0.107	0.0	0.8	0.2
282	65.003	63.652	-0.107	0.0	0.7	0.2
288	65.003	63.655	-0.107	0.0	0.7	0.2
294	65.003	63.657	-0.107	0.0	0.7	0.2
300	65.003	63.659	-0.107	0.0	0.6	0.2

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.000	63.637	-0.110	0.0	0.0	0.0
612	65.000	63.636	-0.110	0.0	0.0	0.0
618	65.000	63.635	-0.110	0.0	0.0	0.0
624	65.000	63.634	-0.110	0.0	0.0	0.0
630	65.000	63.633	-0.110	0.0	0.0	0.0
636	65.000	63.632	-0.110	0.0	0.0	0.0
642	65.000	63.631	-0.110	0.0	0.0	0.0
648	65.000	63.630	-0.110	0.0	0.0	0.0
654	65.000	63.629	-0.110	0.0	0.0	0.0
660	65.000	63.628	-0.110	0.0	0.0	0.0
666	65.000	63.627	-0.110	0.0	0.0	0.0
672	65.000	63.626	-0.110	0.0	0.0	0.0
678	65.000	63.626	-0.110	0.0	0.0	0.0
684	65.000	63.625	-0.110	0.0	0.0	0.0
690	65.000	63.624	-0.110	0.0	0.0	0.0
696	65.000	63.622	-0.110	0.0	0.0	0.0
702	65.000	63.622	-0.110	0.0	0.0	0.0
708	65.000	63.621	-0.110	0.0	0.0	0.0
714	65.000	63.620	-0.110	0.0	0.0	0.0
720	65.000	63.619	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
306	63.661	63.661	0.107	0.0	0.0	0.3
312	63.664	63.663	0.110	0.0	0.0	0.3
318	63.666	63.665	0.112	0.0	0.0	0.3
324	63.668	63.667	0.114	0.0	0.0	0.3
330	63.670	63.669	0.116	0.0	0.0	0.3
336	63.672	63.672	0.118	0.0	0.0	0.3
342	63.674	63.674	0.120	0.0	0.0	0.2
348	63.677	63.676	0.122	0.0	0.0	0.2
354	63.678	63.678	0.124	0.0	0.0	0.2
360	63.680	63.680	0.126	0.0	0.0	0.2
366	63.680	63.680	0.126	0.0	0.0	0.1
372	63.678	63.678	0.124	0.0	0.0	0.0
378	63.677	63.677	0.123	0.0	0.0	0.0
384	63.675	63.676	0.121	0.0	0.0	0.0
390	63.674	63.674	0.120	0.0	0.0	0.0
396	63.672	63.673	0.118	0.0	0.0	0.0
402	63.671	63.671	0.117	0.0	0.0	0.0
408	63.670	63.670	0.116	0.0	0.0	0.0
414	63.669	63.669	0.115	0.0	0.0	0.0
420	63.668	63.668	0.113	0.0	0.0	0.0
426	63.666	63.667	0.112	0.0	0.0	0.0
432	63.665	63.665	0.111	0.0	0.0	0.0
438	63.664	63.664	0.110	0.0	0.0	0.0
444	63.663	63.663	0.109	0.0	0.0	0.0
450	63.662	63.662	0.108	0.0	0.0	0.0
456	63.661	63.661	0.107	0.0	0.0	0.0
462	63.660	63.660	0.106	0.0	0.0	0.0
468	63.659	63.659	0.105	0.0	0.0	0.0
474	63.658	63.658	0.104	0.0	0.0	0.0
480	63.657	63.657	0.103	0.0	0.0	0.0
486	63.656	63.656	0.102	0.0	0.0	0.0
492	63.655	63.655	0.101	0.0	0.0	0.0
498	63.654	63.654	0.099	0.0	0.0	0.0
504	63.653	63.653	0.099	0.0	0.0	0.0
510	63.652	63.652	0.098	0.0	0.0	0.0
516	63.651	63.651	0.097	0.0	0.0	0.0
522	63.650	63.650	0.096	0.0	0.0	0.0
528	63.649	63.649	0.095	0.0	0.0	0.0
534	63.648	63.648	0.094	0.0	0.0	0.0
540	63.647	63.647	0.093	0.0	0.0	0.0
546	63.646	63.646	0.092	0.0	0.0	0.0
552	63.645	63.645	0.091	0.0	0.0	0.0
558	63.644	63.644	0.090	0.0	0.0	0.0
564	63.643	63.643	0.089	0.0	0.0	0.0
570	63.642	63.643	0.088	0.0	0.0	0.0
576	63.641	63.642	0.087	0.0	0.0	0.0
582	63.640	63.641	0.086	0.0	0.0	0.0
588	63.640	63.640	0.085	0.0	0.0	0.0
594	63.639	63.639	0.084	0.0	0.0	0.0
600	63.638	63.638	0.084	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.637	63.637	0.083	0.0	0.0	0.0
612	63.636	63.636	0.081	0.0	0.0	0.0
618	63.635	63.635	0.081	0.0	0.0	0.0
624	63.634	63.634	0.080	0.0	0.0	0.0
630	63.633	63.633	0.079	0.0	0.0	0.0
636	63.632	63.632	0.078	0.0	0.0	0.0
642	63.631	63.631	0.077	0.0	0.0	0.0
648	63.630	63.630	0.076	0.0	0.0	0.0
654	63.629	63.629	0.075	0.0	0.0	0.0
660	63.628	63.628	0.074	0.0	0.0	0.0
666	63.627	63.628	0.073	0.0	0.0	0.0
672	63.626	63.627	0.072	0.0	0.0	0.0
678	63.626	63.626	0.071	0.0	0.0	0.0
684	63.625	63.625	0.071	0.0	0.0	0.0
690	63.624	63.624	0.070	0.0	0.0	0.0
696	63.622	63.623	0.068	0.0	0.0	0.0
702	63.622	63.622	0.068	0.0	0.0	0.0
708	63.621	63.621	0.067	0.0	0.0	0.0
714	63.620	63.620	0.066	0.0	0.0	0.0
720	63.619	63.619	0.065	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.637	63.586	0.277	0.0	0.0	0.1
612	63.636	63.585	0.276	0.0	0.0	0.1
618	63.635	63.584	0.275	0.0	0.0	0.1
624	63.634	63.583	0.274	0.0	0.0	0.1
630	63.633	63.582	0.273	0.0	0.0	0.1
636	63.632	63.581	0.272	0.0	0.0	0.1
642	63.631	63.580	0.271	0.0	0.0	0.1
648	63.630	63.579	0.270	0.0	0.0	0.1
654	63.629	63.578	0.269	0.0	0.0	0.1
660	63.628	63.578	0.268	0.0	0.0	0.1
666	63.628	63.577	0.268	0.0	0.0	0.1
672	63.627	63.576	0.267	0.0	0.0	0.1
678	63.626	63.575	0.266	0.0	0.0	0.1
684	63.625	63.574	0.265	0.0	0.0	0.1
690	63.624	63.573	0.264	0.0	0.0	0.1
696	63.623	63.572	0.263	0.0	0.0	0.1
702	63.622	63.571	0.262	0.0	0.0	0.1
708	63.621	63.570	0.261	0.0	0.0	0.1
714	63.620	63.569	0.260	0.0	0.0	0.1
720	63.619	63.569	0.259	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
18	63.101	63.096	-0.109	0.0	0.0	0.0
24	63.102	63.096	-0.108	0.0	0.0	0.0
30	63.105	63.096	-0.105	0.0	0.0	0.0
36	63.108	63.096	-0.102	0.0	0.0	0.0
42	63.112	63.096	-0.098	0.0	0.0	0.0
48	63.116	63.096	-0.094	0.0	0.0	0.0
54	63.121	63.096	-0.089	0.0	0.0	0.0
60	63.127	63.096	-0.083	0.0	0.0	0.0
66	63.133	63.096	-0.077	0.0	0.0	0.0
72	63.138	63.096	-0.072	0.0	0.0	0.0
78	63.144	63.096	-0.066	0.0	0.0	0.0
84	63.149	63.096	-0.061	0.0	0.0	0.0
90	63.155	63.096	-0.055	0.0	0.0	0.0
96	63.161	63.096	-0.049	0.0	0.0	0.0
102	63.168	63.096	-0.042	0.0	0.0	0.0
108	63.175	63.096	-0.035	0.0	0.0	0.0
114	63.183	63.096	-0.027	0.0	0.0	0.0
120	63.194	63.096	-0.016	0.0	0.0	0.0
126	63.203	63.096	-0.007	0.0	0.0	0.0
132	63.214	63.096	0.004	0.0	0.0	0.0
138	63.225	63.096	0.015	0.0	0.0	0.0
144	63.238	63.096	0.028	0.0	0.0	0.0
150	63.251	63.096	0.041	0.0	0.0	0.0
156	63.252	63.096	0.042	0.0	0.0	0.0
162	63.252	63.096	0.042	0.0	0.0	0.0
168	63.256	63.096	0.046	0.0	0.0	0.0
174	63.264	63.096	0.054	0.0	0.0	0.0
180	63.277	63.096	0.067	0.0	0.0	0.0
186	63.293	63.096	0.083	0.0	0.0	0.0
192	63.314	63.096	0.104	0.0	0.0	0.0
198	63.337	63.096	0.127	0.0	0.1	0.0
204	63.361	63.096	0.151	0.0	0.1	0.0
210	63.384	63.096	0.174	0.0	0.1	0.0
216	63.407	63.096	0.197	0.0	0.1	0.0
222	63.428	63.096	0.218	0.0	0.1	0.0
228	63.447	63.096	0.237	0.0	0.1	0.0
234	63.465	63.096	0.255	0.0	0.1	0.0
240	63.481	63.096	0.271	0.0	0.1	0.0
246	63.495	63.096	0.285	0.0	0.1	0.0
252	63.509	63.096	0.299	0.0	0.1	0.0
258	63.520	63.096	0.310	0.0	0.1	0.0
264	63.531	63.096	0.321	0.0	0.1	0.0
270	63.540	63.096	0.330	0.0	0.1	0.0
276	63.549	63.096	0.339	0.0	0.1	0.0
282	63.556	63.096	0.346	0.0	0.1	0.0
288	63.563	63.096	0.353	0.0	0.1	0.0
294	63.569	63.096	0.359	0.0	0.1	0.0
300	63.574	63.096	0.364	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
306	63.579	63.096	0.369	0.0	0.1	0.0
312	63.583	63.096	0.373	0.0	0.1	0.0
318	63.587	63.096	0.377	0.0	0.1	0.0
324	63.591	63.096	0.381	0.0	0.1	0.0
330	63.594	63.096	0.384	0.0	0.1	0.0
336	63.597	63.096	0.387	0.0	0.1	0.0
342	63.600	63.096	0.390	0.0	0.1	0.0
348	63.603	63.096	0.393	0.0	0.1	0.0
354	63.606	63.096	0.396	0.0	0.1	0.0
360	63.608	63.096	0.398	0.0	0.1	0.0
366	63.611	63.096	0.401	0.0	0.1	0.0
372	63.613	63.096	0.403	0.0	0.1	0.0
378	63.613	63.096	0.403	0.0	0.1	0.0
384	63.615	63.096	0.405	0.0	0.1	0.0
390	63.615	63.096	0.405	0.0	0.1	0.0
396	63.615	63.096	0.405	0.0	0.1	0.0
402	63.615	63.096	0.405	0.0	0.1	0.0
408	63.615	63.096	0.405	0.0	0.1	0.0
414	63.615	63.096	0.405	0.0	0.1	0.0
420	63.614	63.096	0.404	0.0	0.1	0.0
426	63.613	63.096	0.403	0.0	0.1	0.0
432	63.613	63.096	0.403	0.0	0.1	0.0
438	63.612	63.096	0.402	0.0	0.1	0.0
444	63.611	63.096	0.401	0.0	0.1	0.0
450	63.610	63.096	0.400	0.0	0.1	0.0
456	63.609	63.096	0.399	0.0	0.1	0.0
462	63.608	63.096	0.398	0.0	0.1	0.0
468	63.607	63.096	0.397	0.0	0.1	0.0
474	63.606	63.096	0.396	0.0	0.1	0.0
480	63.605	63.096	0.395	0.0	0.1	0.0
486	63.604	63.096	0.394	0.0	0.1	0.0
492	63.603	63.096	0.393	0.0	0.1	0.0
498	63.602	63.096	0.392	0.0	0.1	0.0
504	63.601	63.096	0.391	0.0	0.1	0.0
510	63.600	63.096	0.390	0.0	0.1	0.0
516	63.599	63.096	0.389	0.0	0.1	0.0
522	63.599	63.096	0.389	0.0	0.1	0.0
528	63.598	63.096	0.388	0.0	0.1	0.0
534	63.597	63.096	0.387	0.0	0.1	0.0
540	63.596	63.096	0.386	0.0	0.1	0.0
546	63.595	63.096	0.385	0.0	0.1	0.0
552	63.594	63.096	0.384	0.0	0.1	0.0
558	63.593	63.096	0.383	0.0	0.1	0.0
564	63.592	63.096	0.382	0.0	0.1	0.0
570	63.591	63.096	0.381	0.0	0.1	0.0
576	63.590	63.096	0.380	0.0	0.1	0.0
582	63.589	63.096	0.379	0.0	0.1	0.0
588	63.588	63.096	0.378	0.0	0.1	0.0
594	63.587	63.096	0.377	0.0	0.1	0.0
600	63.587	63.096	0.377	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
606	63.586	63.096	0.376	0.0	0.1	0.0
612	63.585	63.096	0.375	0.0	0.1	0.0
618	63.584	63.096	0.374	0.0	0.1	0.0
624	63.583	63.096	0.373	0.0	0.1	0.0
630	63.582	63.096	0.372	0.0	0.1	0.0
636	63.581	63.096	0.371	0.0	0.1	0.0
642	63.580	63.096	0.370	0.0	0.1	0.0
648	63.579	63.096	0.369	0.0	0.1	0.0
654	63.578	63.096	0.368	0.0	0.1	0.0
660	63.578	63.096	0.368	0.0	0.1	0.0
666	63.577	63.096	0.367	0.0	0.1	0.0
672	63.576	63.096	0.366	0.0	0.1	0.0
678	63.575	63.096	0.365	0.0	0.1	0.0
684	63.574	63.096	0.364	0.0	0.1	0.0
690	63.573	63.096	0.363	0.0	0.1	0.0
696	63.572	63.096	0.362	0.0	0.1	0.0
702	63.571	63.096	0.361	0.0	0.1	0.0
708	63.570	63.096	0.360	0.0	0.1	0.0
714	63.569	63.096	0.359	0.0	0.1	0.0
720	63.569	63.096	0.359	0.0	0.1	0.0