

Appendix F Attenuation Storage Modelling Output Summary

Easy Flood Risk							Page 1
55 Shepherds Lane Dartford DA1 2NL							
Date 16/02/2021 17:29			Designed by sheph				
File 139 North Hyde Road.SRCX			Checked by				
Innovyze			Source Control 2020.1				
<u>Summary of Results for 100 year Return Period (+40%)</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	29.875	0.625	2.3	2.0	4.3	9.4	O K
30 min Summer	29.955	0.705	2.4	2.0	4.3	10.6	O K
60 min Summer	29.969	0.719	2.4	2.0	4.3	10.8	O K
120 min Summer	29.903	0.653	2.3	2.0	4.3	9.8	O K
180 min Summer	29.846	0.596	2.2	1.9	4.2	8.9	O K
240 min Summer	29.812	0.562	2.2	1.3	3.5	8.4	O K
360 min Summer	29.753	0.503	2.1	0.0	2.1	7.5	O K
480 min Summer	29.653	0.403	2.0	0.0	2.0	6.1	O K
600 min Summer	29.564	0.314	2.0	0.0	2.0	4.7	O K
720 min Summer	29.455	0.205	2.0	0.0	2.0	3.1	O K
960 min Summer	29.331	0.081	2.0	0.0	2.0	1.2	O K
1440 min Summer	29.280	0.030	1.7	0.0	1.7	0.4	O K
2160 min Summer	29.259	0.009	1.2	0.0	1.2	0.1	O K
2880 min Summer	29.250	0.000	1.0	0.0	1.0	0.0	O K
4320 min Summer	29.250	0.000	0.7	0.0	0.7	0.0	O K
5760 min Summer	29.250	0.000	0.5	0.0	0.5	0.0	O K
7200 min Summer	29.250	0.000	0.5	0.0	0.5	0.0	O K
8640 min Summer	29.250	0.000	0.4	0.0	0.4	0.0	O K
10080 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	144.320	0.0	11.9	1.2	16		
30 min Summer	93.697	0.0	15.4	2.5	25		
60 min Summer	57.877	0.0	19.1	3.5	42		
120 min Summer	34.535	0.0	22.8	3.2	76		
180 min Summer	25.201	0.0	25.0	2.4	108		
240 min Summer	20.040	0.0	26.5	1.5	142		
360 min Summer	14.473	0.0	28.7	0.0	218		
480 min Summer	11.488	0.0	30.3	0.0	284		
600 min Summer	9.597	0.0	31.7	0.0	350		
720 min Summer	8.282	0.0	32.8	0.0	404		
960 min Summer	6.559	0.0	34.6	0.0	504		
1440 min Summer	4.715	0.0	37.3	0.0	734		
2160 min Summer	3.385	0.0	40.2	0.0	1100		
2880 min Summer	2.673	0.0	42.3	0.0	0		
4320 min Summer	1.914	0.0	45.5	0.0	0		
5760 min Summer	1.509	0.0	47.8	0.0	0		
7200 min Summer	1.254	0.0	49.7	0.0	0		
8640 min Summer	1.078	0.0	51.2	0.0	0		
10080 min Summer	0.948	0.0	52.6	0.0	0		
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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.400	Shortest Storm (mins)	15
Ratio R	0.426	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.044

Time (mins)	Area
From:	To: (ha)
0	4 0.044

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Model Details Storage is Online Cover Level (m) 30.500 Tank or Pond Structure Invert Level (m) 29.250 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>15.0</td><td>0.500</td><td>15.0</td></tr></tbody></table> Hydro-Brake® Optimum Outflow Control Unit Reference MD-SCL-0070-2000-0500-2000 Design Head (m) 0.500 Design Flow (l/s) 2.0 Flush-Flo™ Calculated Objective Minimise blockage risk Application Surface Sump Available Yes Diameter (mm) 70 Invert Level (m) 29.200 Minimum Outlet Pipe Diameter (mm) 100 Suggested Manhole Diameter (mm) 1200 <table><thead><tr><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th></tr></thead><tbody><tr><td>Design Point (Calculated)</td><td>0.500</td><td>2.0</td><td>Kick-Flo®</td><td>0.314</td><td>1.6</td></tr><tr><td>Flush-Flo™</td><td>0.121</td><td>2.0</td><td>Mean Flow over Head Range</td><td>-</td><td>1.7</td></tr></tbody></table> 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 <table><thead><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr></thead><tbody><tr><td>0.100</td><td>2.0</td><td>1.200</td><td>3.0</td><td>3.000</td><td>4.5</td><td>7.000</td><td>6.8</td></tr><tr><td>0.200</td><td>1.9</td><td>1.400</td><td>3.2</td><td>3.500</td><td>4.9</td><td>7.500</td><td>7.0</td></tr><tr><td>0.300</td><td>1.7</td><td>1.600</td><td>3.4</td><td>4.000</td><td>5.2</td><td>8.000</td><td>7.3</td></tr><tr><td>0.400</td><td>1.8</td><td>1.800</td><td>3.6</td><td>4.500</td><td>5.5</td><td>8.500</td><td>7.5</td></tr><tr><td>0.500</td><td>2.0</td><td>2.000</td><td>3.8</td><td>5.000</td><td>5.7</td><td>9.000</td><td>7.7</td></tr><tr><td>0.600</td><td>2.2</td><td>2.200</td><td>3.9</td><td>5.500</td><td>6.0</td><td>9.500</td><td>7.9</td></tr><tr><td>0.800</td><td>2.5</td><td>2.400</td><td>4.1</td><td>6.000</td><td>6.3</td><td></td><td></td></tr><tr><td>1.000</td><td>2.7</td><td>2.600</td><td>4.2</td><td>6.500</td><td>6.5</td><td></td><td></td></tr></tbody></table>			Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	15.0	0.500	15.0	Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	0.500	2.0	Kick-Flo®	0.314	1.6	Flush-Flo™	0.121	2.0	Mean Flow over Head Range	-	1.7	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	2.0	1.200	3.0	3.000	4.5	7.000	6.8	0.200	1.9	1.400	3.2	3.500	4.9	7.500	7.0	0.300	1.7	1.600	3.4	4.000	5.2	8.000	7.3	0.400	1.8	1.800	3.6	4.500	5.5	8.500	7.5	0.500	2.0	2.000	3.8	5.000	5.7	9.000	7.7	0.600	2.2	2.200	3.9	5.500	6.0	9.500	7.9	0.800	2.5	2.400	4.1	6.000	6.3			1.000	2.7	2.600	4.2	6.500	6.5		
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Hydro-Brake® Optimum Overflow Control

Unit Reference	MD-SCL-0070-2000-0500-2000
Design Head (m)	0.500
Design Flow (l/s)	2.0
Flush-Flo™	Calculated
Objective	Minimise blockage risk
Application	Surface
Sump Available	Yes
Diameter (mm)	70
Invert Level (m)	29.750
Minimum Outlet Pipe Diameter (mm)	100
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.500	2.0	Kick-Flo®	0.314	1.6
Flush-Flo™	0.121	2.0	Mean Flow over Head Range	-	1.7

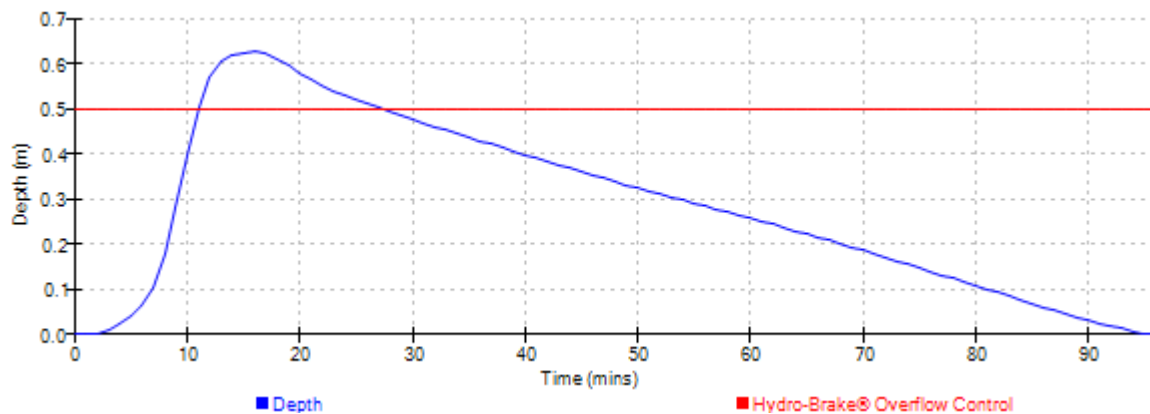
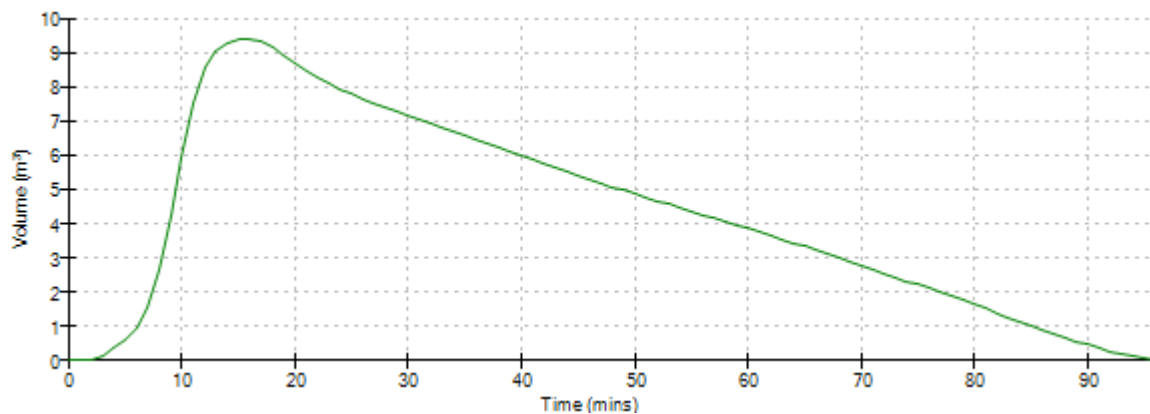
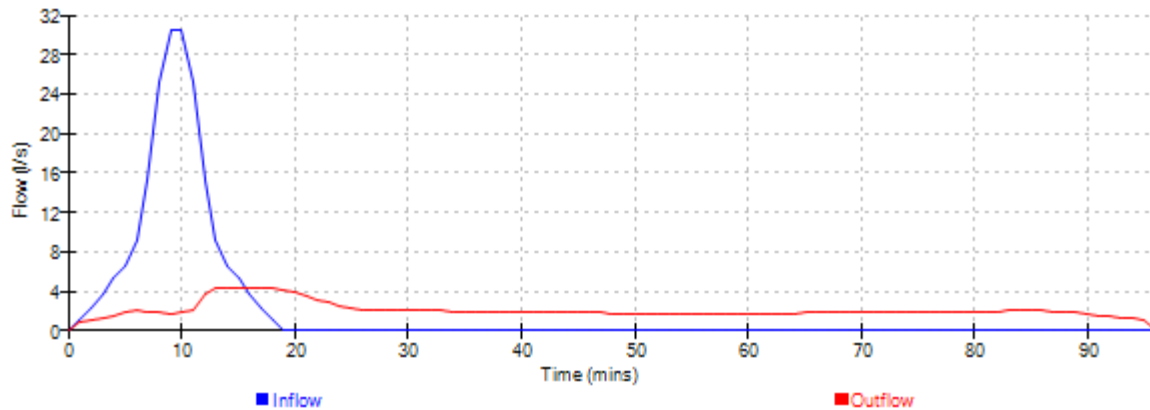
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Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.0	1.200	3.0	3.000	4.5	7.000	6.8
0.200	1.9	1.400	3.2	3.500	4.9	7.500	7.0
0.300	1.7	1.600	3.4	4.000	5.2	8.000	7.3
0.400	1.8	1.800	3.6	4.500	5.5	8.500	7.5
0.500	2.0	2.000	3.8	5.000	5.7	9.000	7.7
0.600	2.2	2.200	3.9	5.500	6.0	9.500	7.9
0.800	2.5	2.400	4.1	6.000	6.3		
1.000	2.7	2.600	4.2	6.500	6.5		

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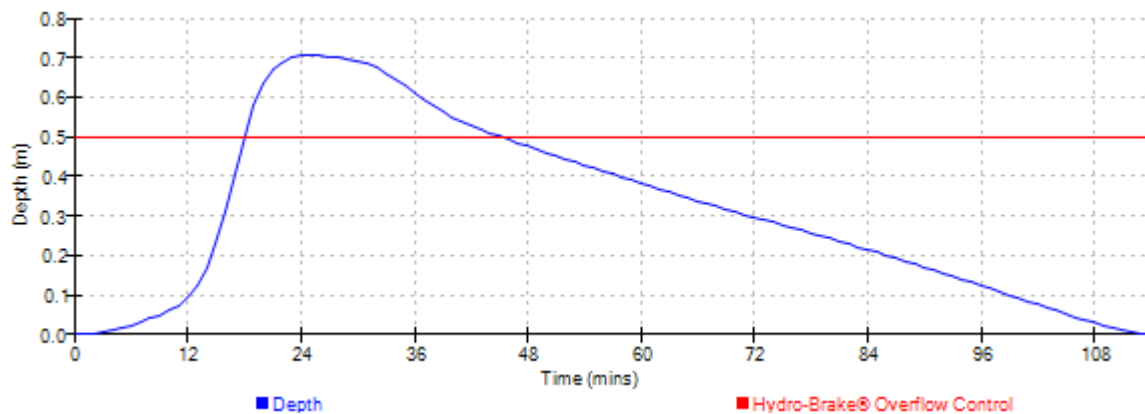
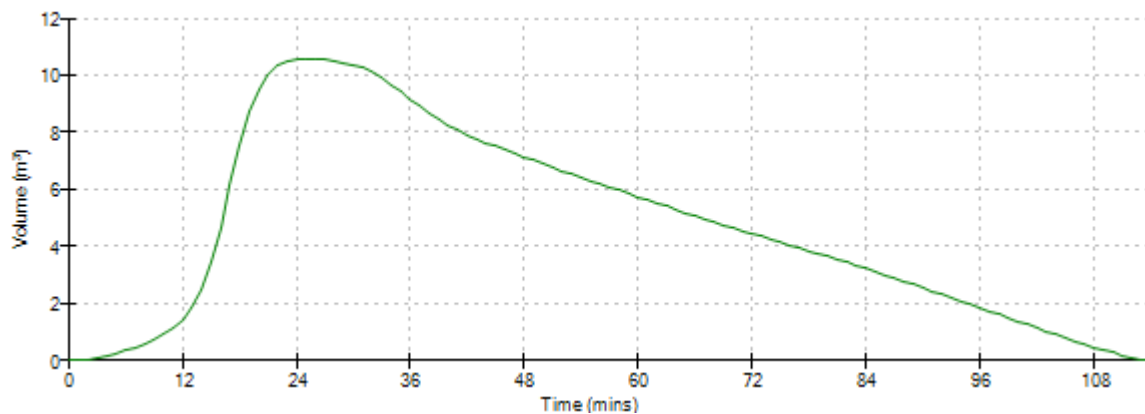
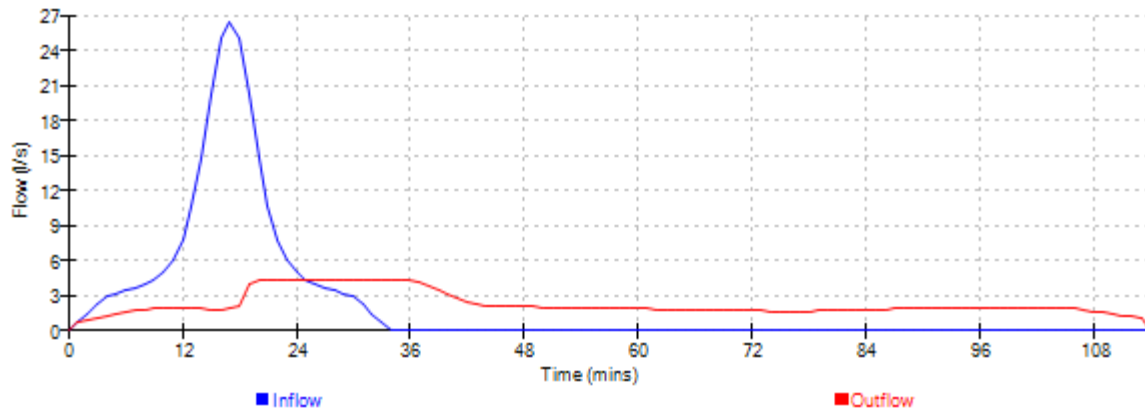
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Event: 15 min Summer



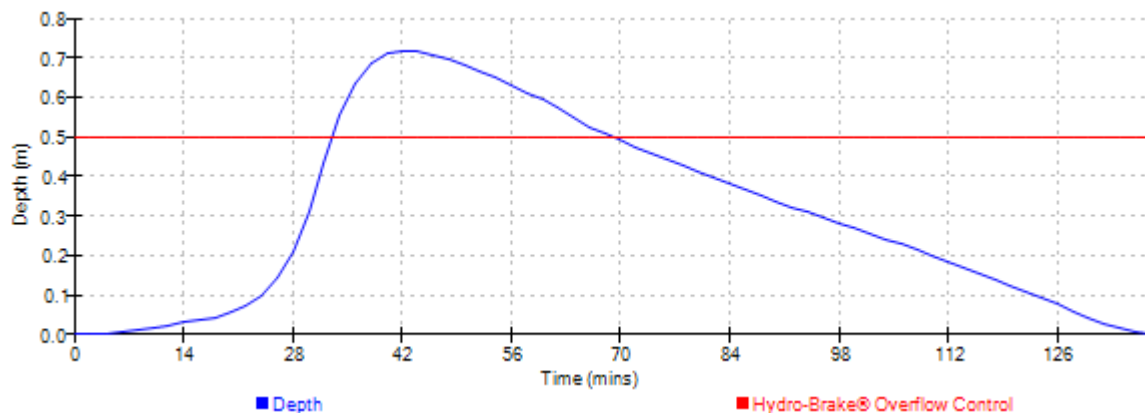
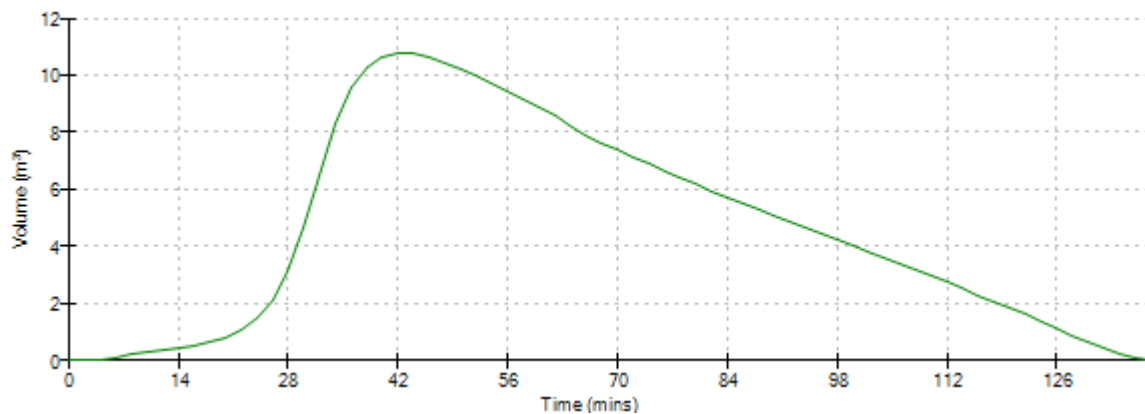
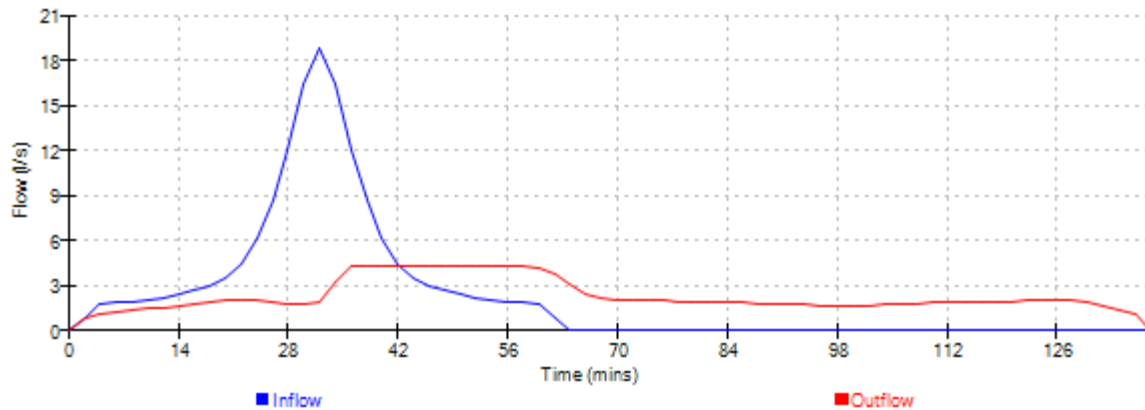
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Event: 30 min Summer



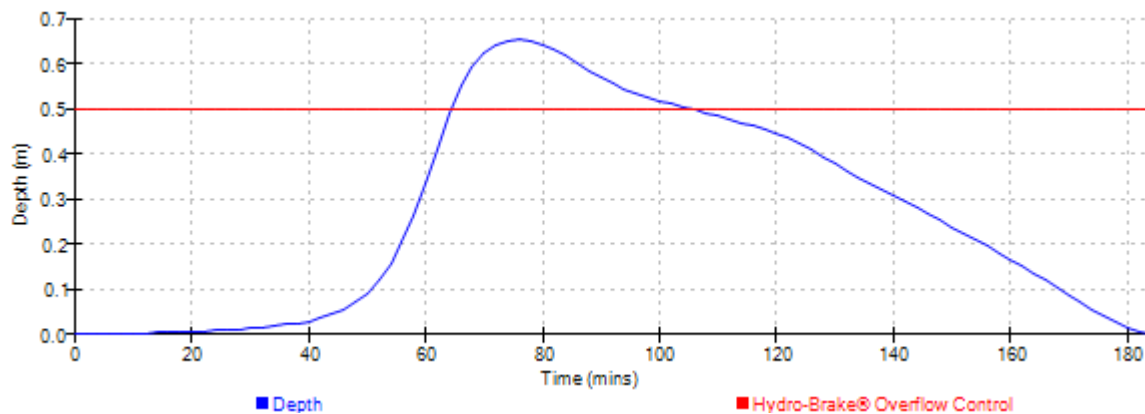
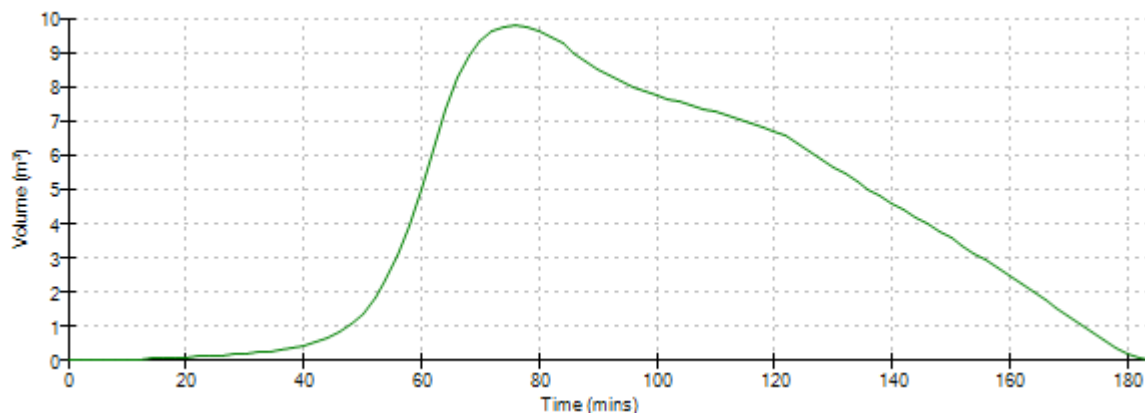
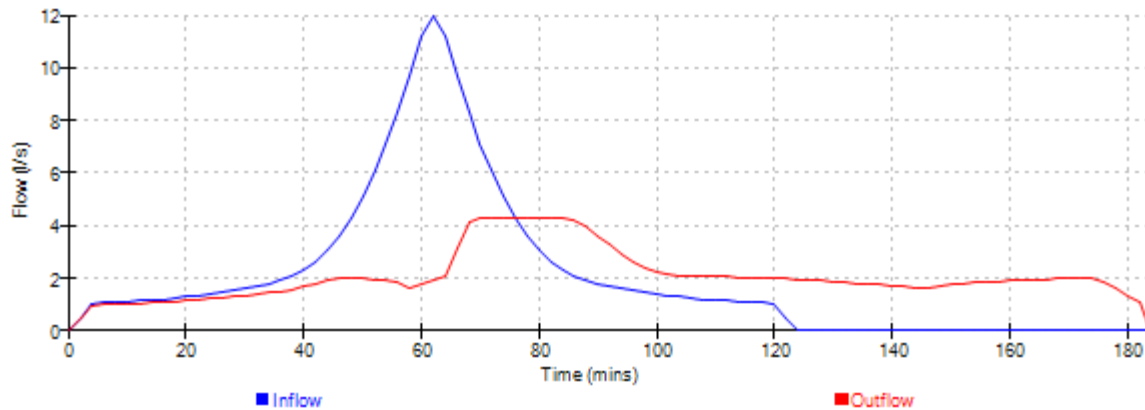
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Event: 60 min Summer



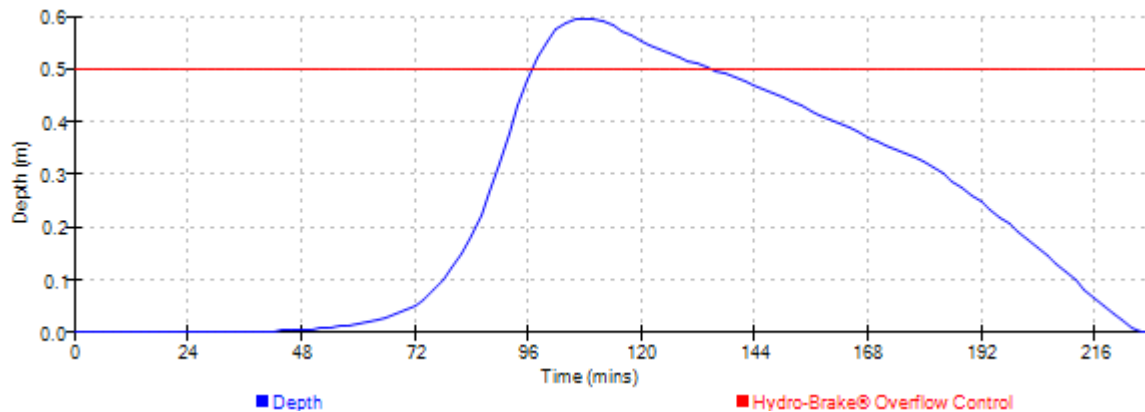
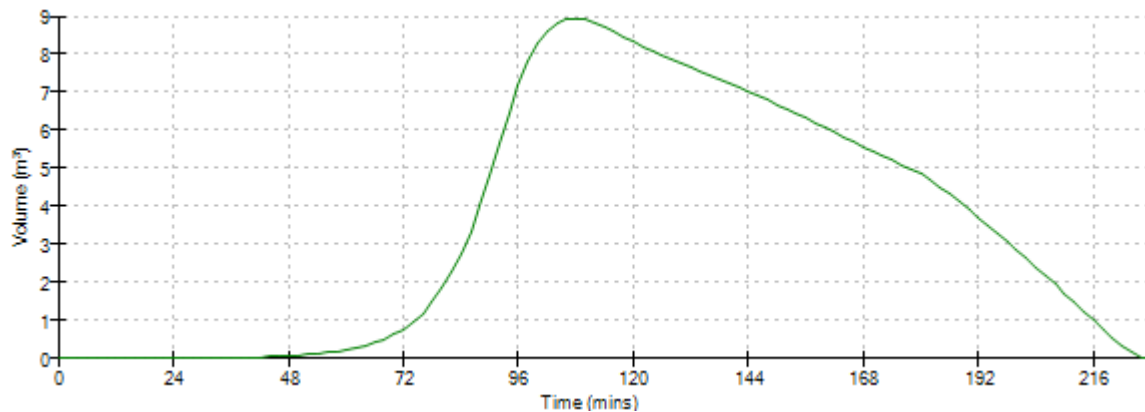
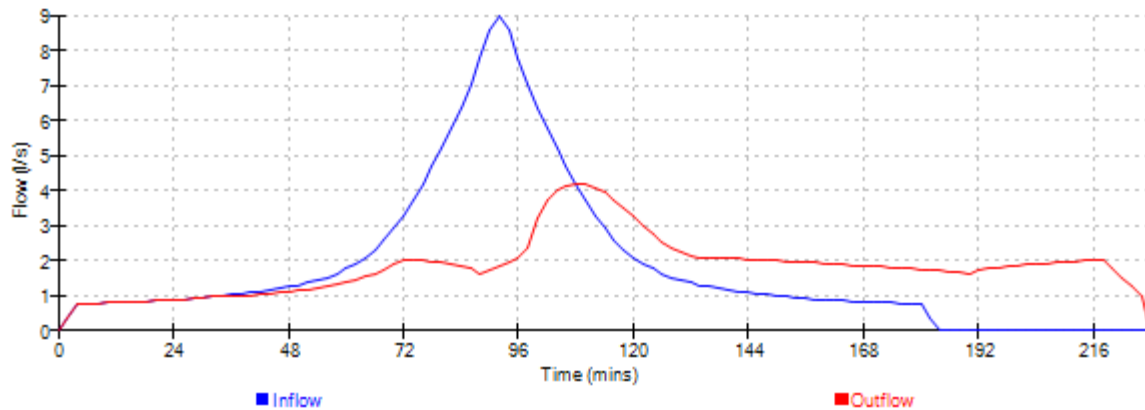
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Event: 120 min Summer



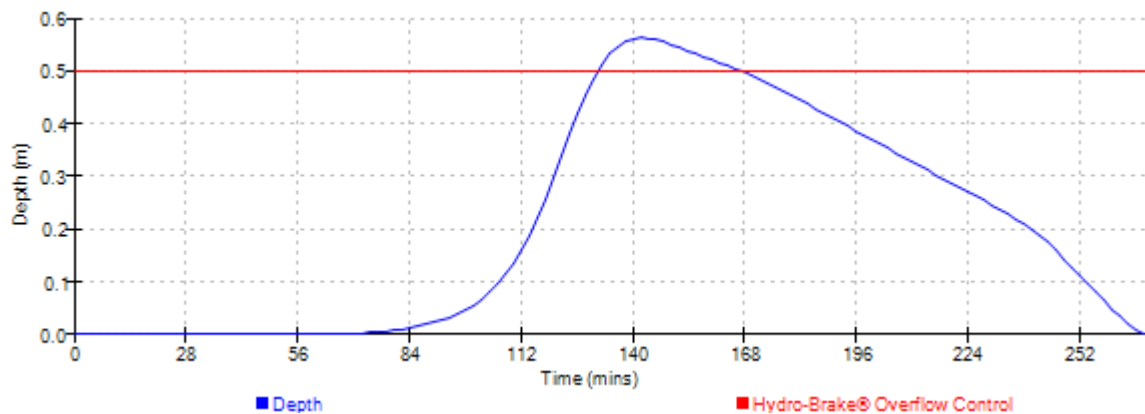
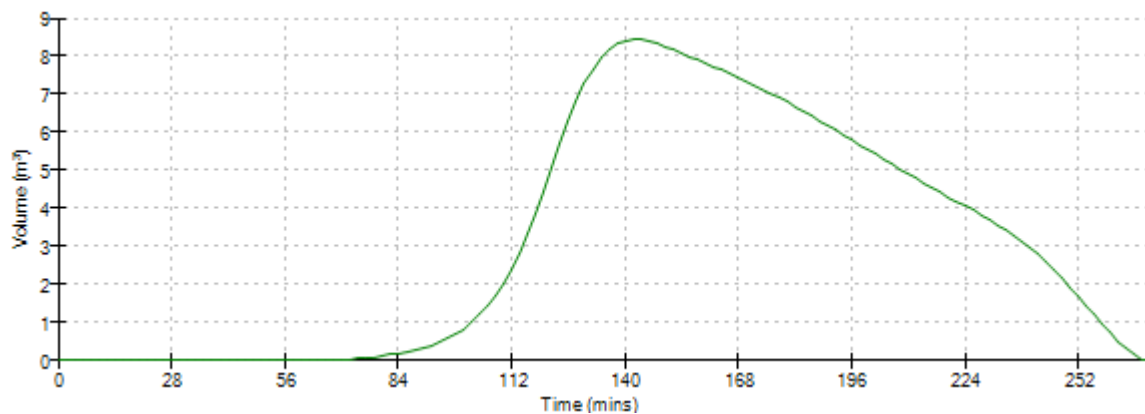
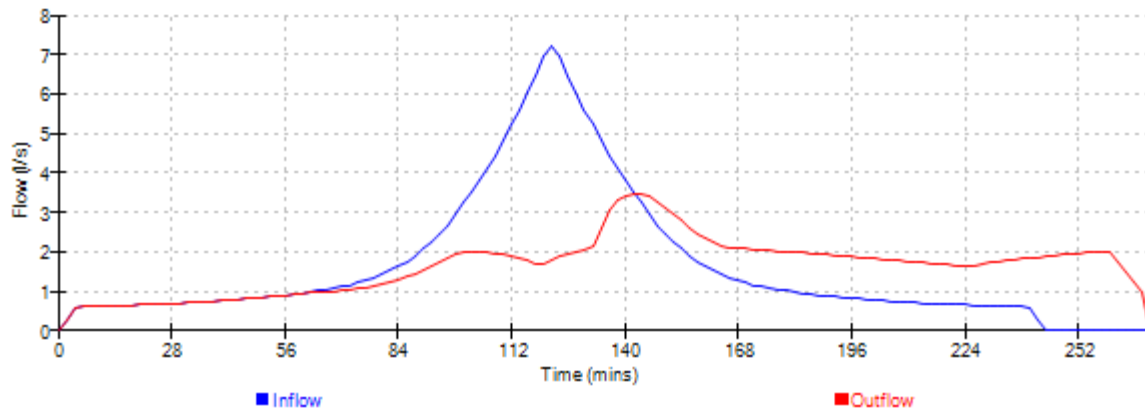
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Event: 180 min Summer



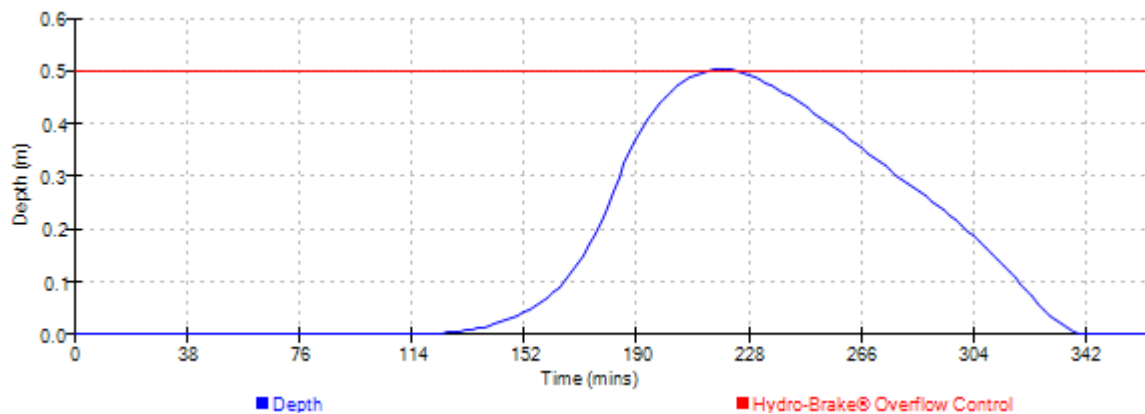
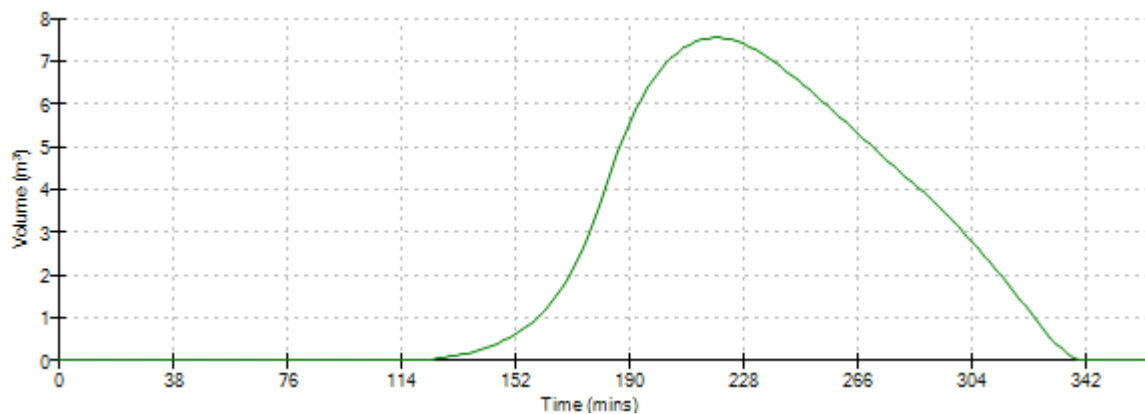
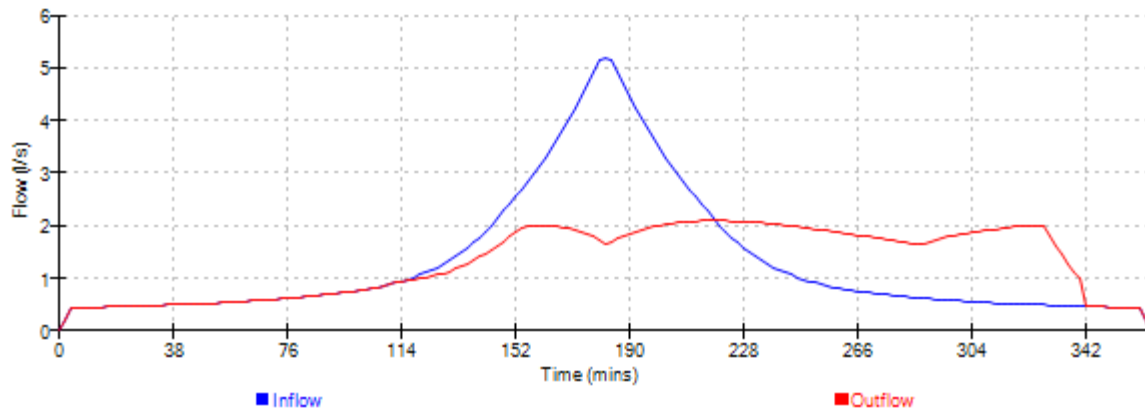
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Event: 240 min Summer



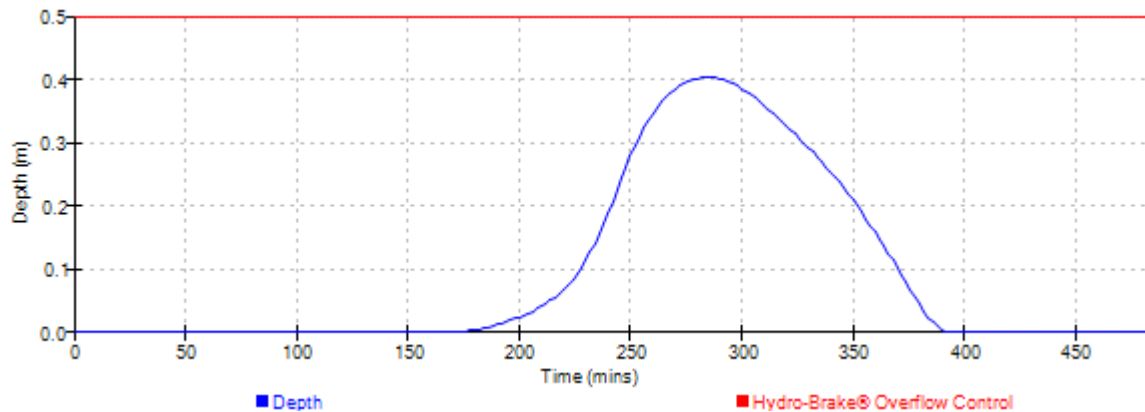
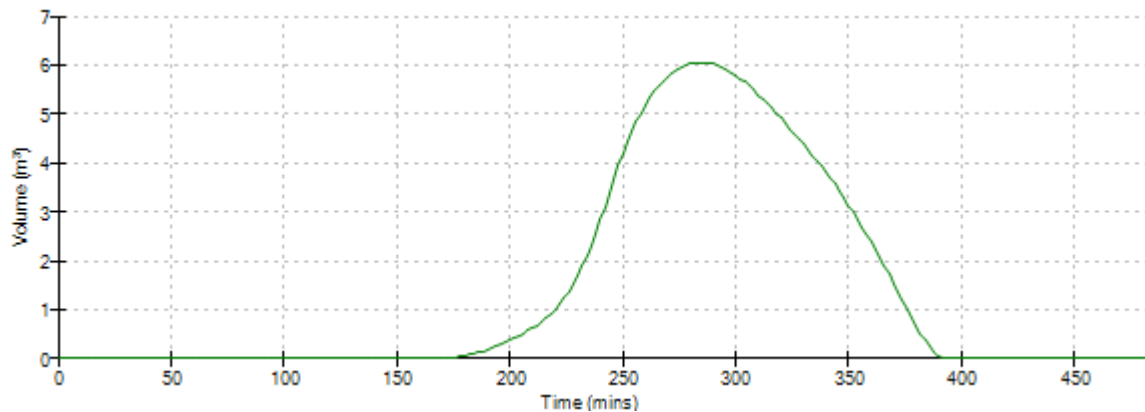
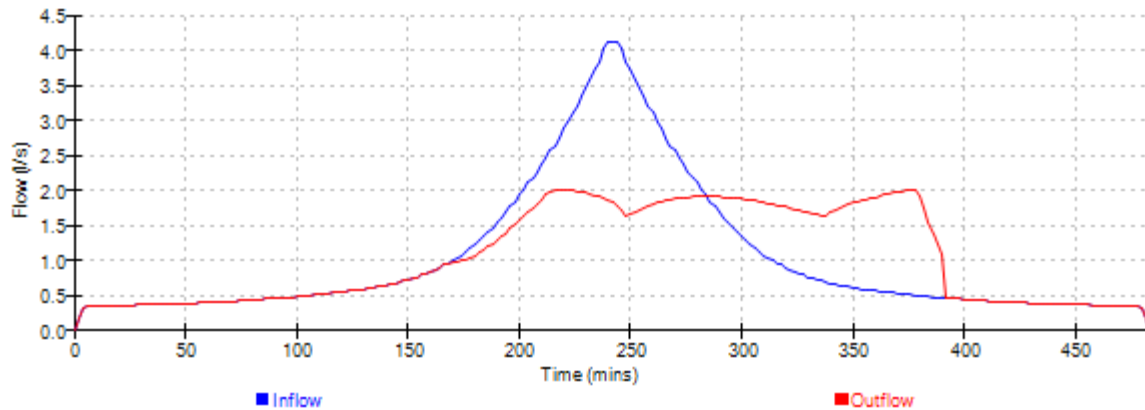
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Event: 360 min Summer



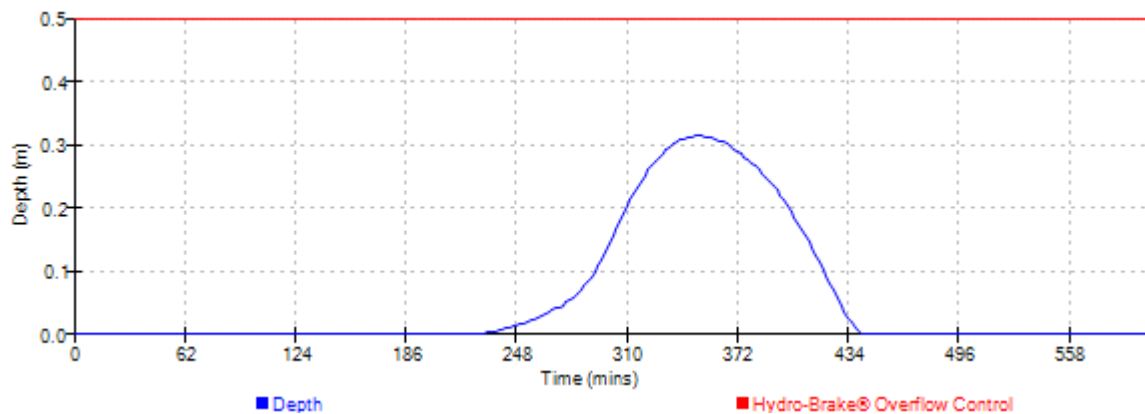
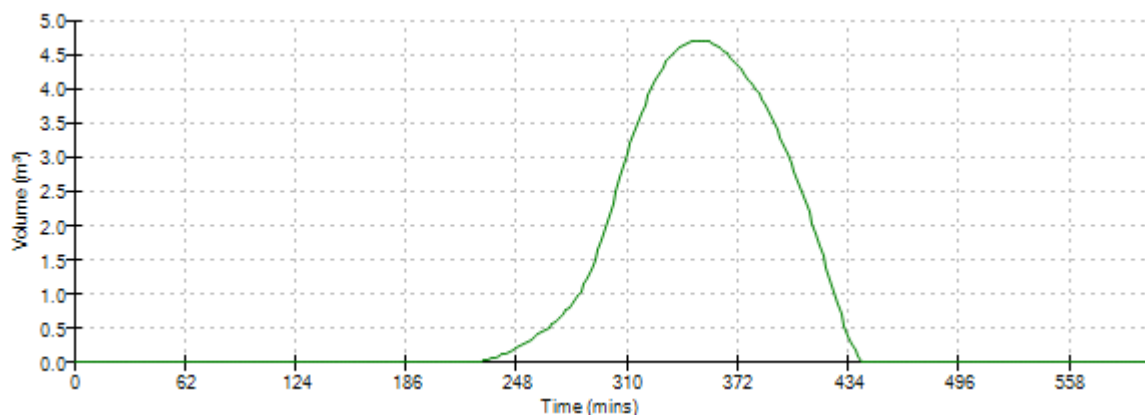
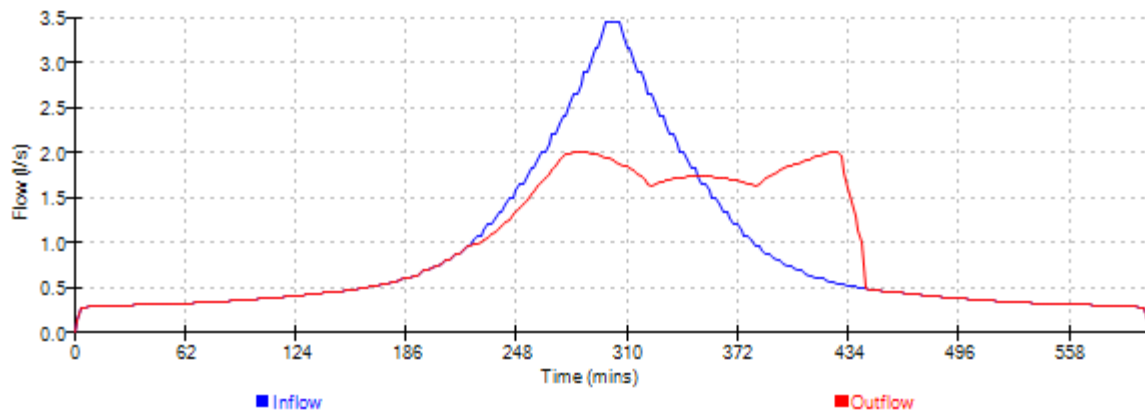
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Event: 480 min Summer



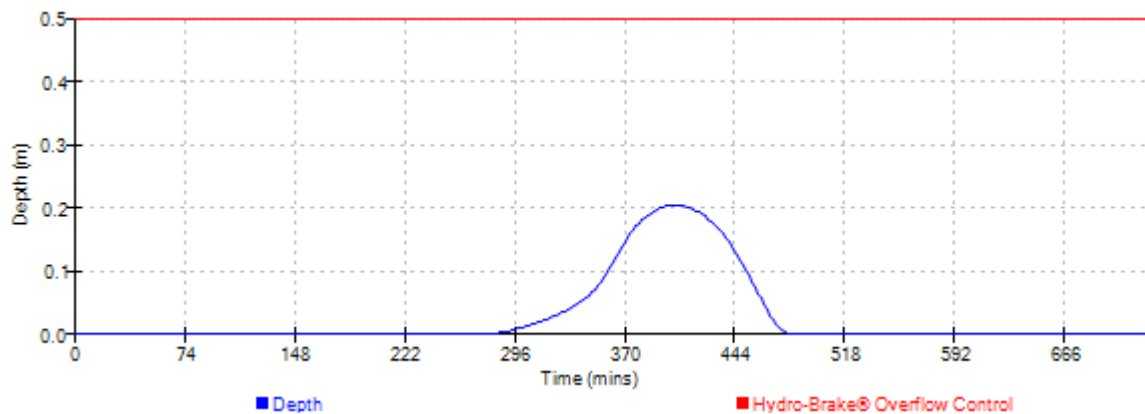
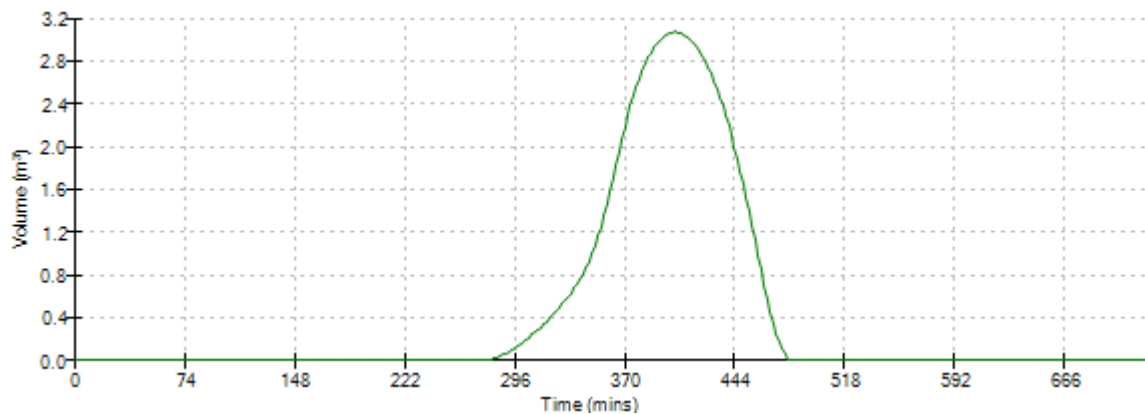
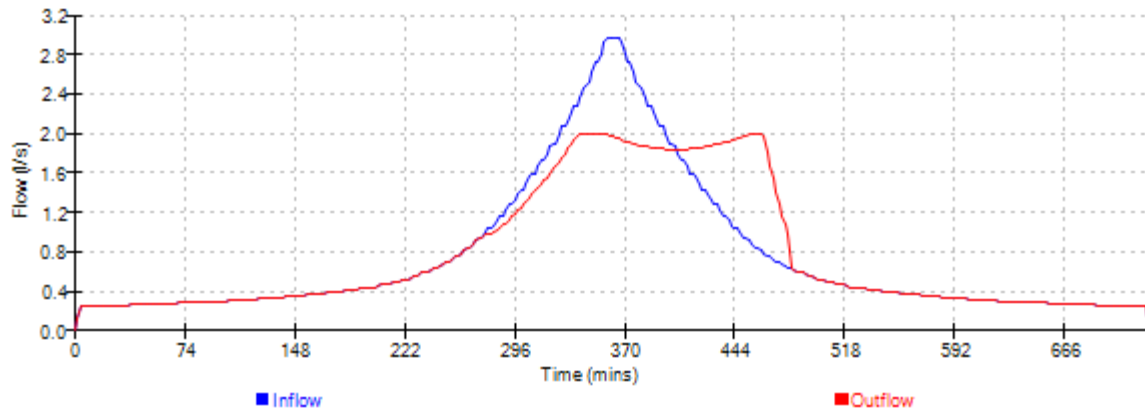
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Event: 600 min Summer



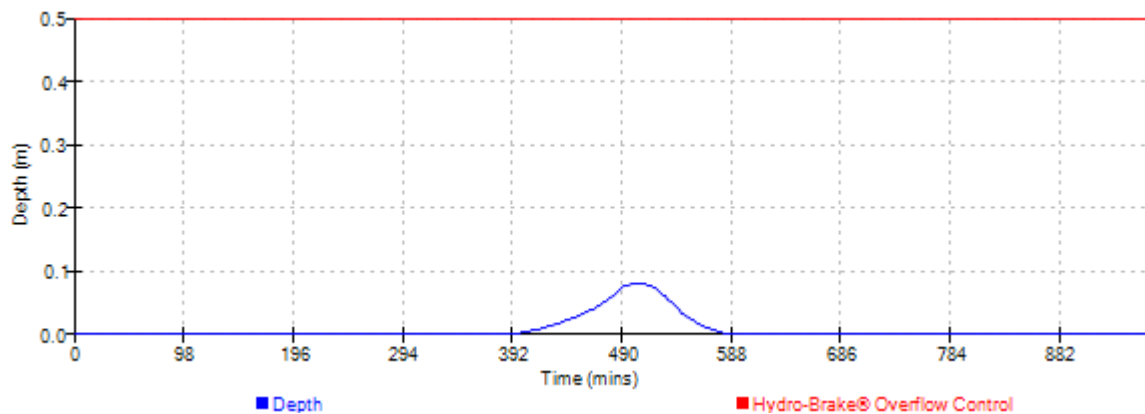
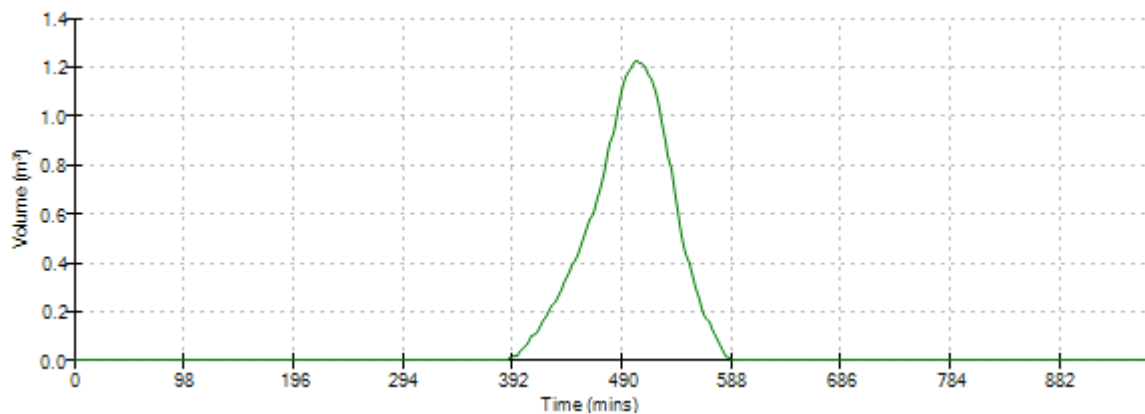
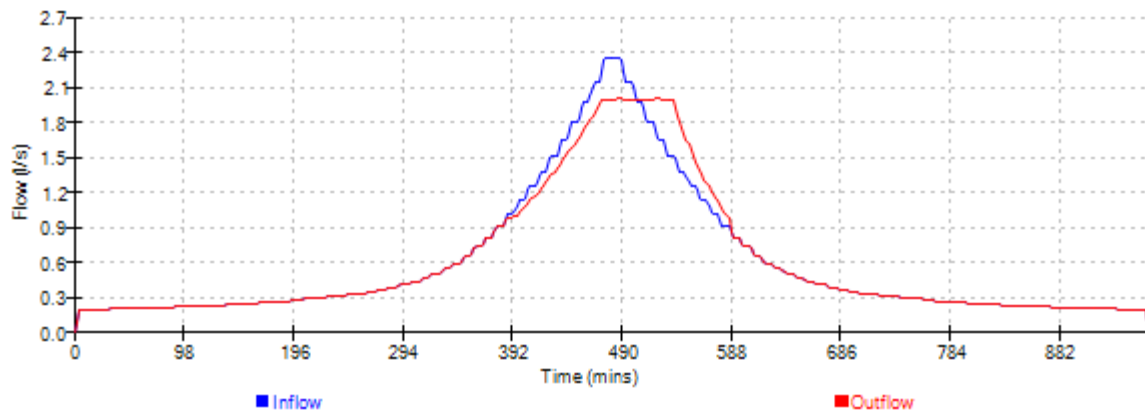
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Event: 720 min Summer



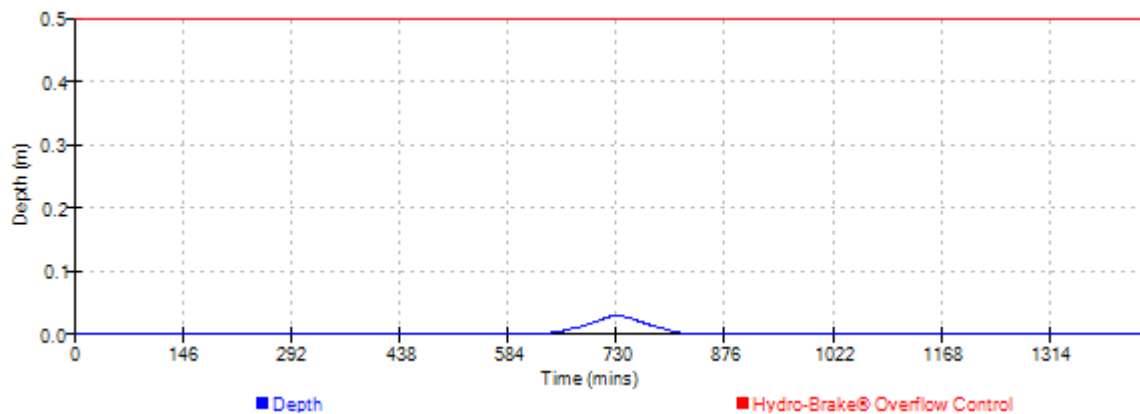
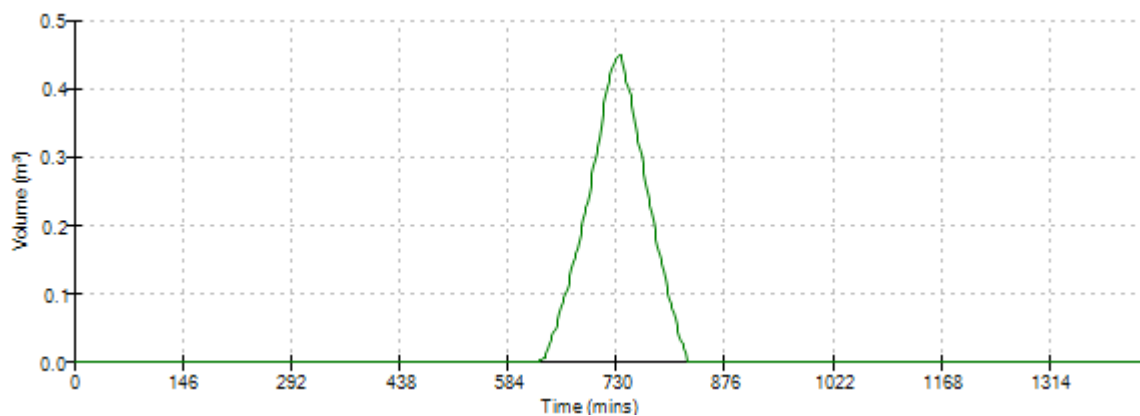
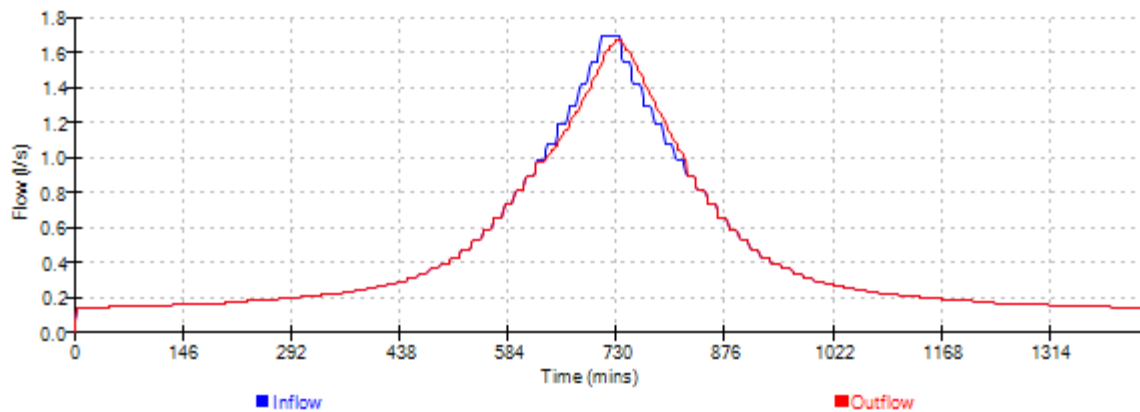
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Event: 960 min Summer



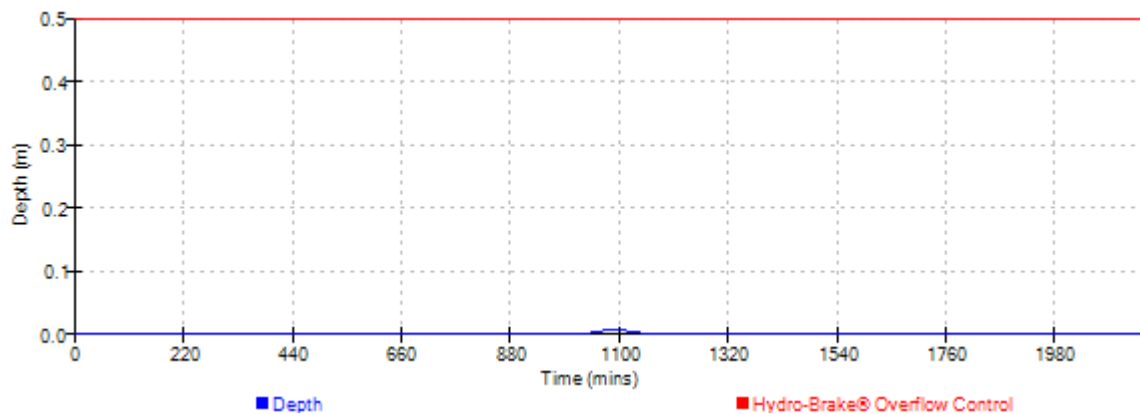
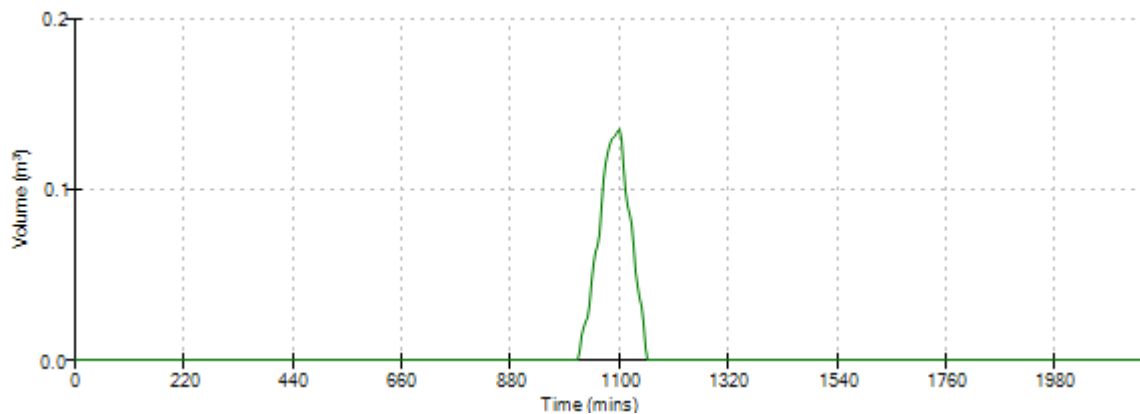
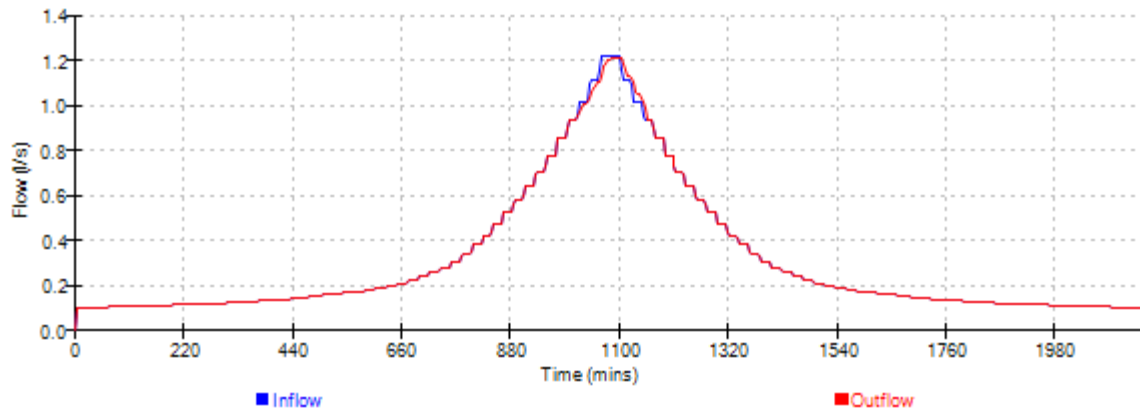
Easy Flood Risk		Page 17
55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Summer



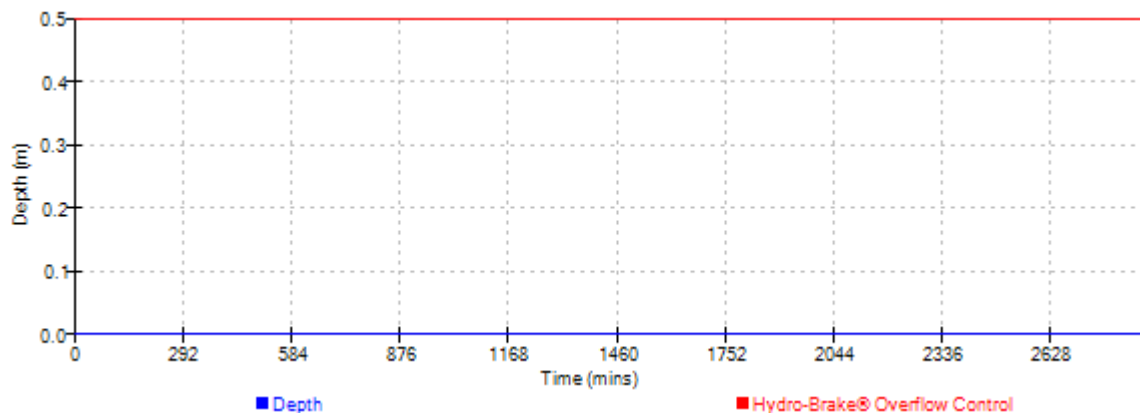
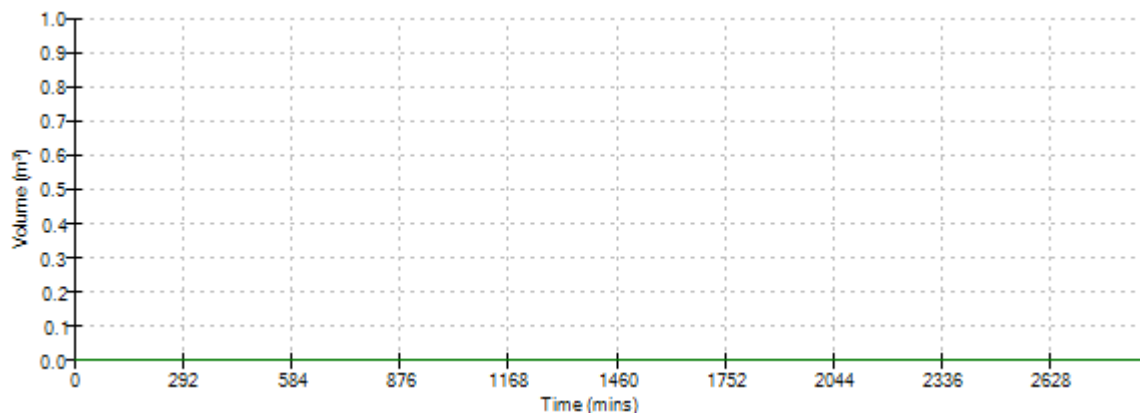
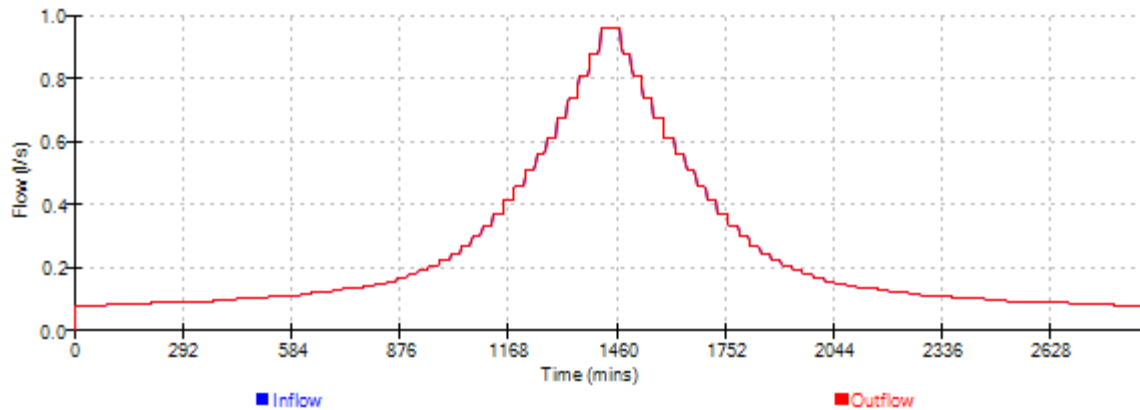
Easy Flood Risk		Page 18
55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Summer



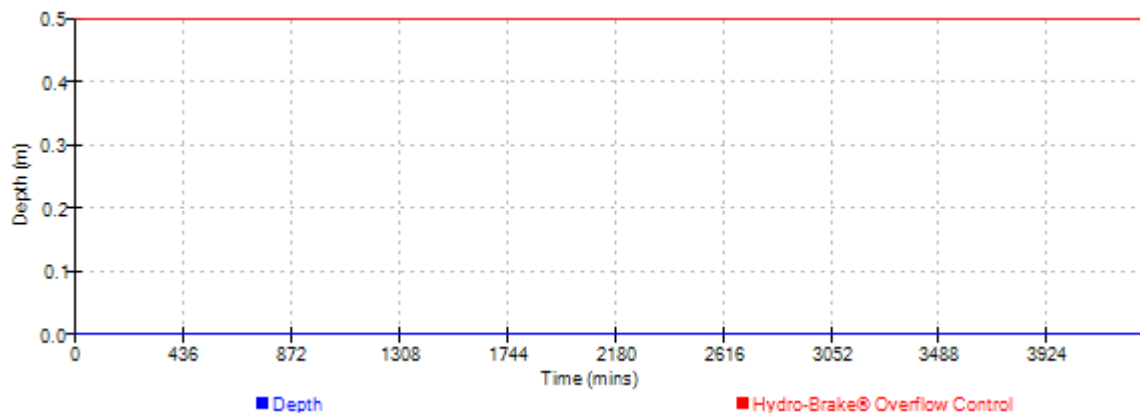
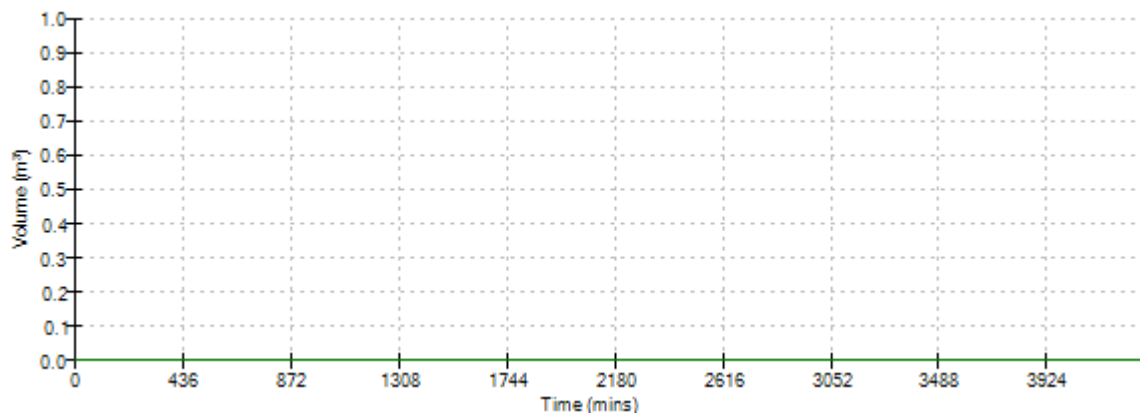
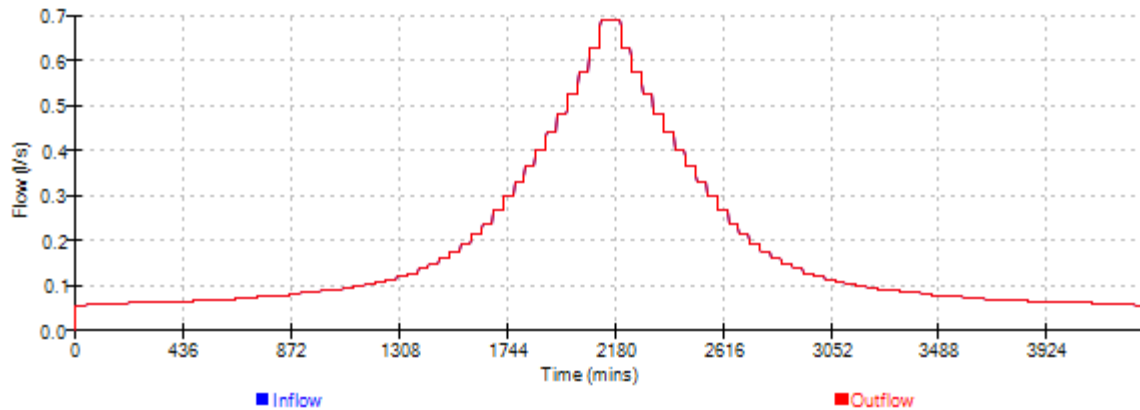
Easy Flood Risk		Page 19
55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Summer



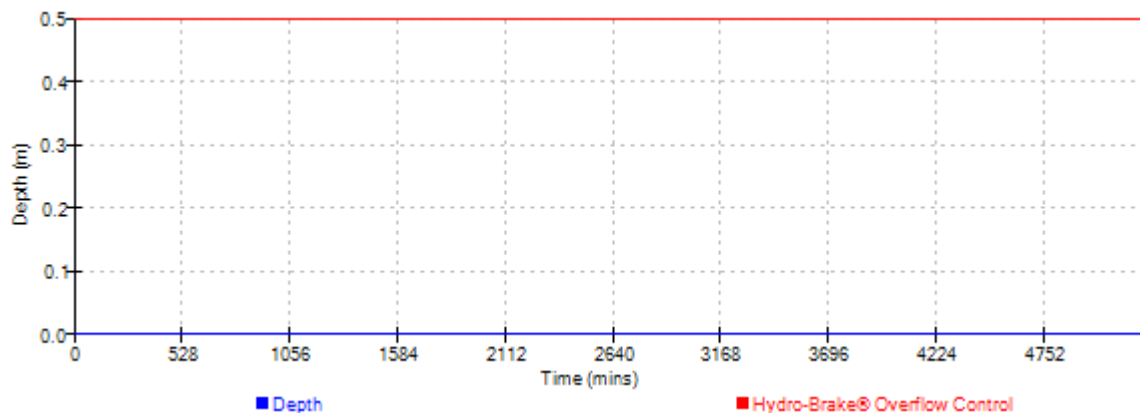
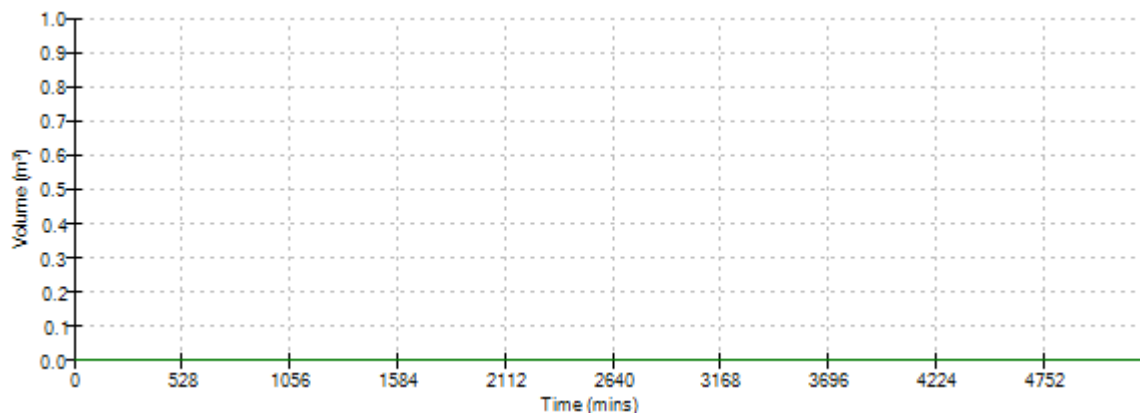
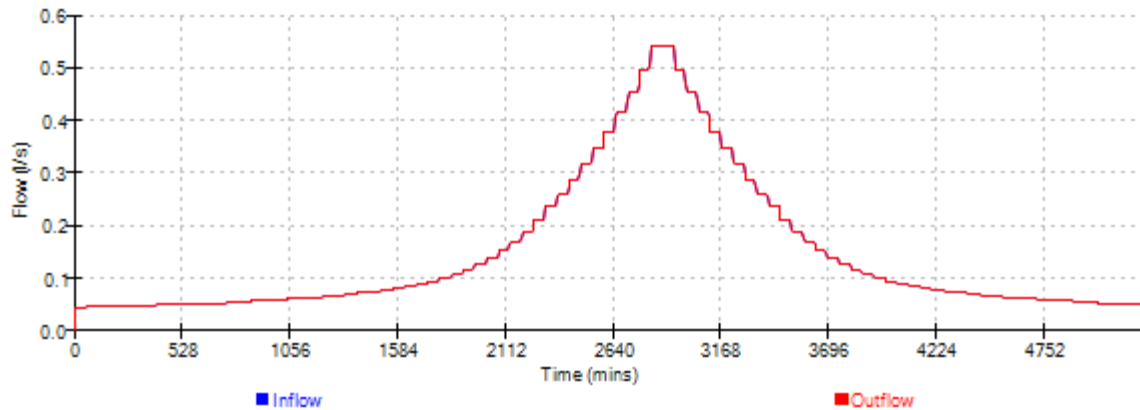
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Summer



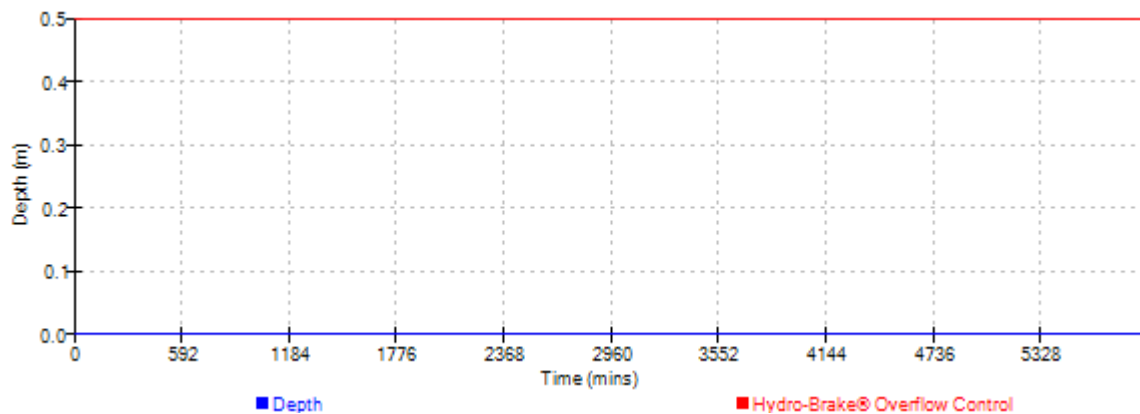
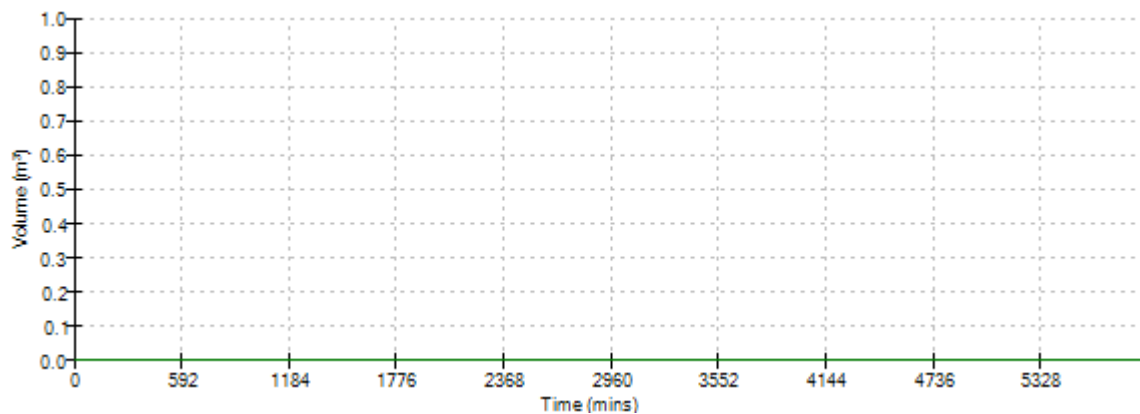
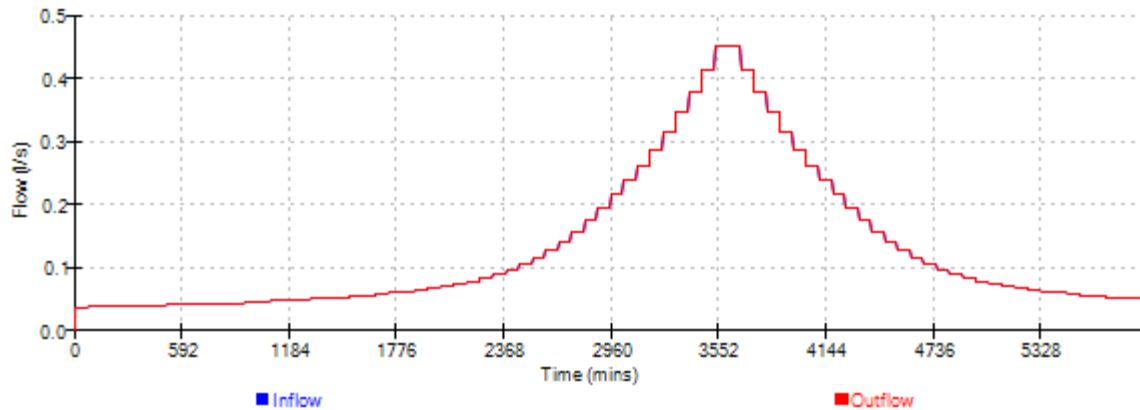
Easy Flood Risk		Page 21
55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Summer



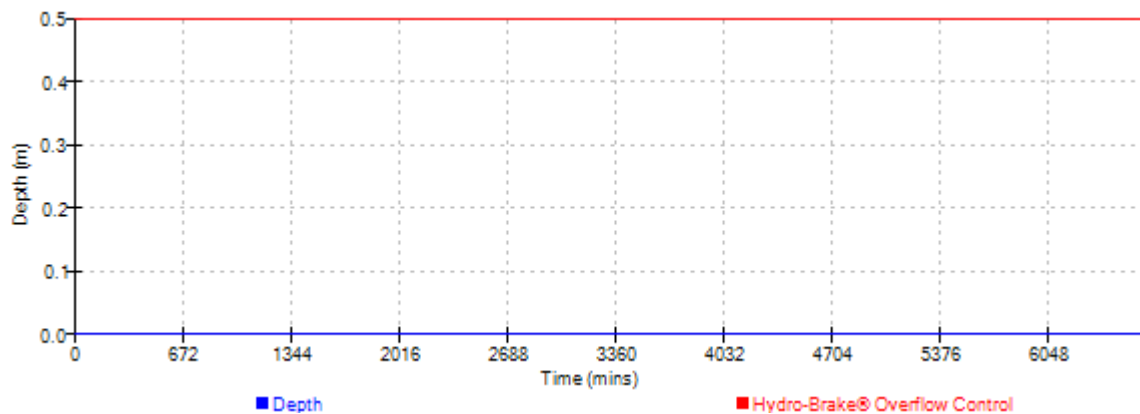
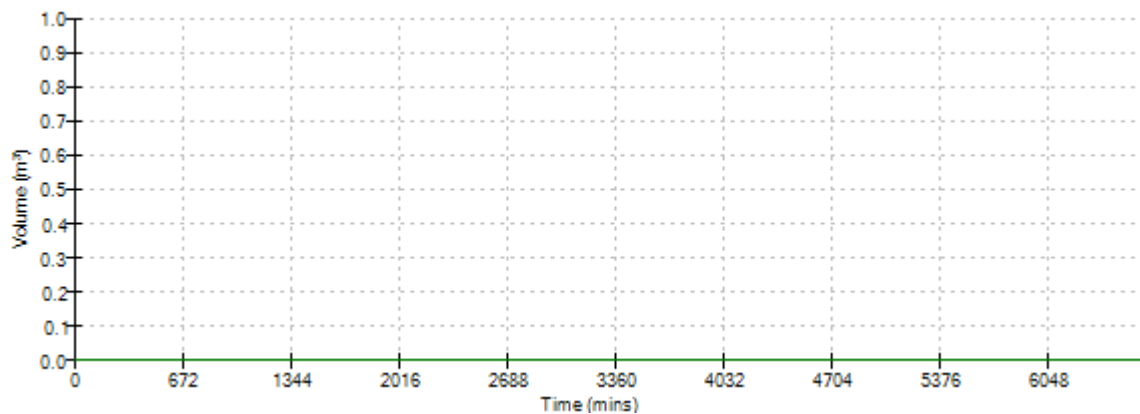
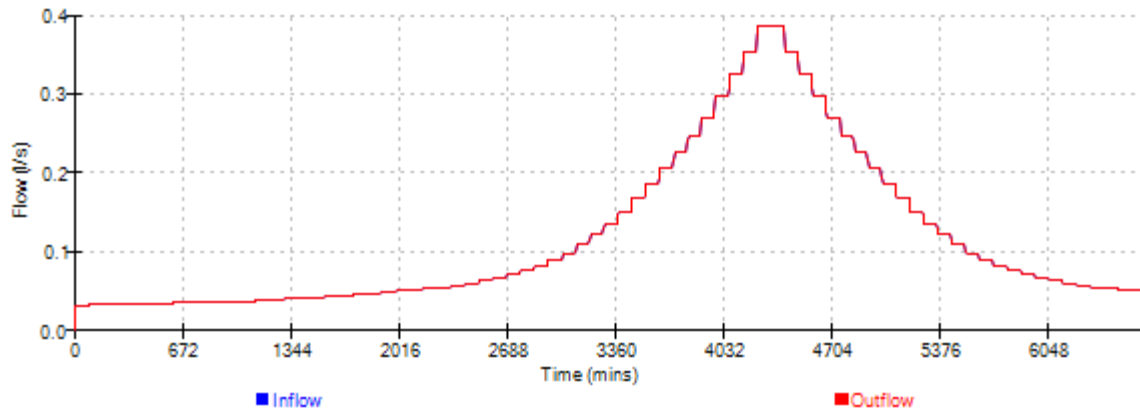
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Summer



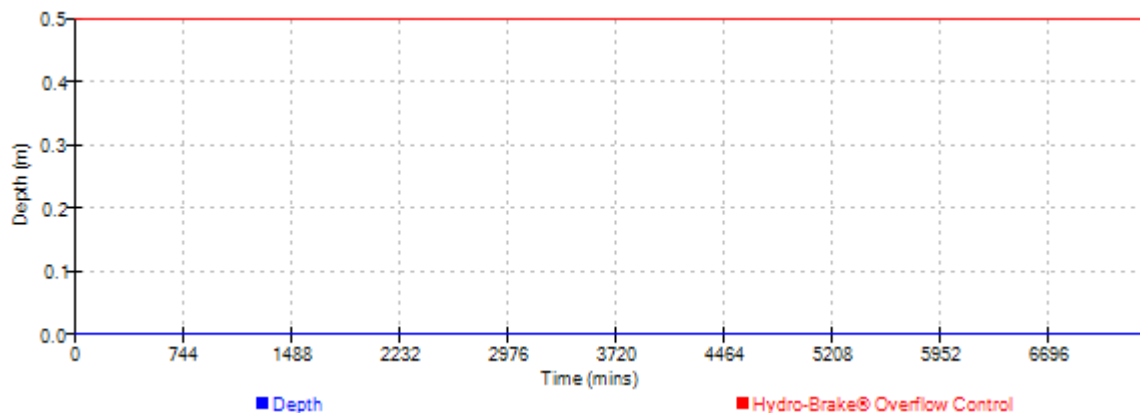
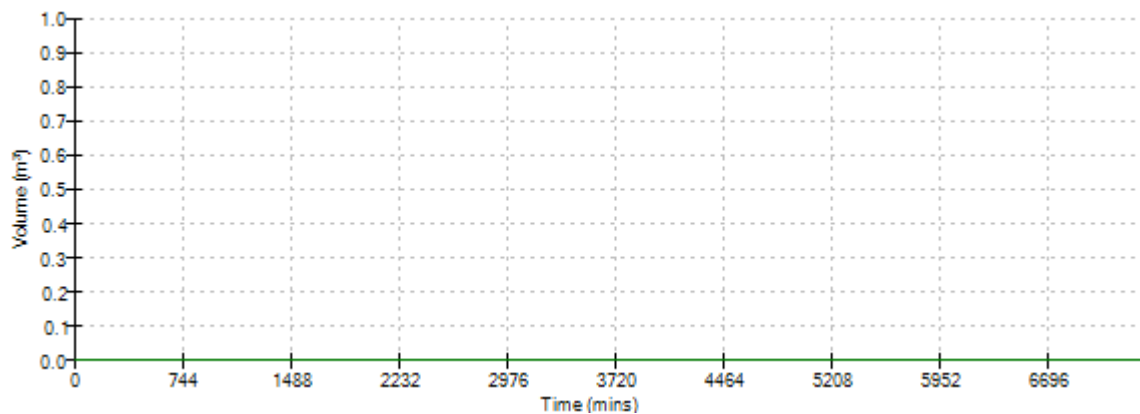
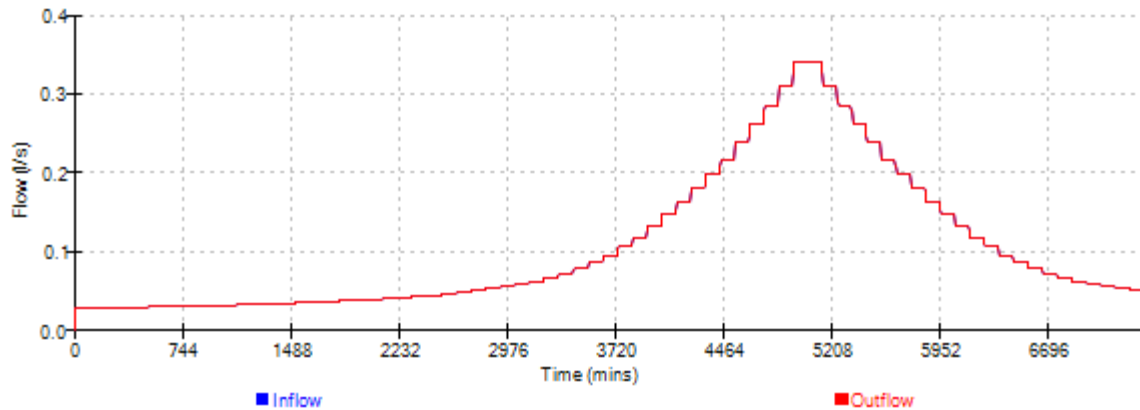
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 8640 min Summer



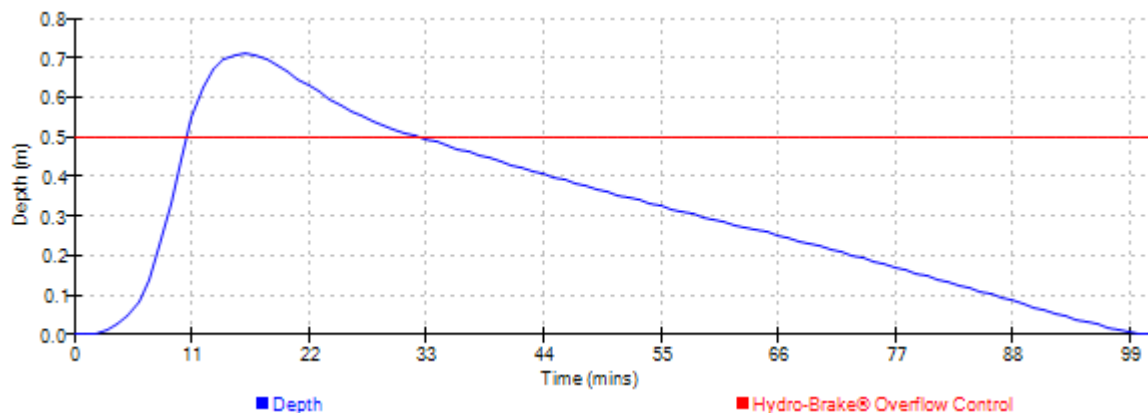
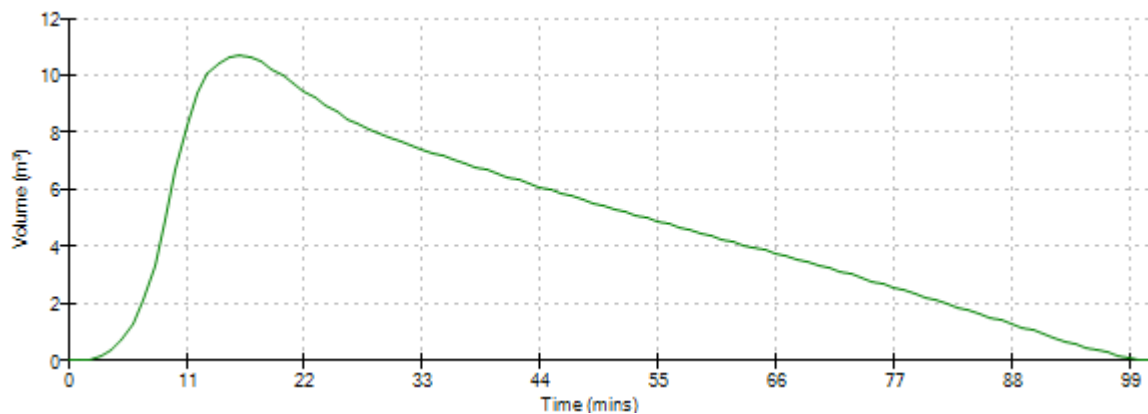
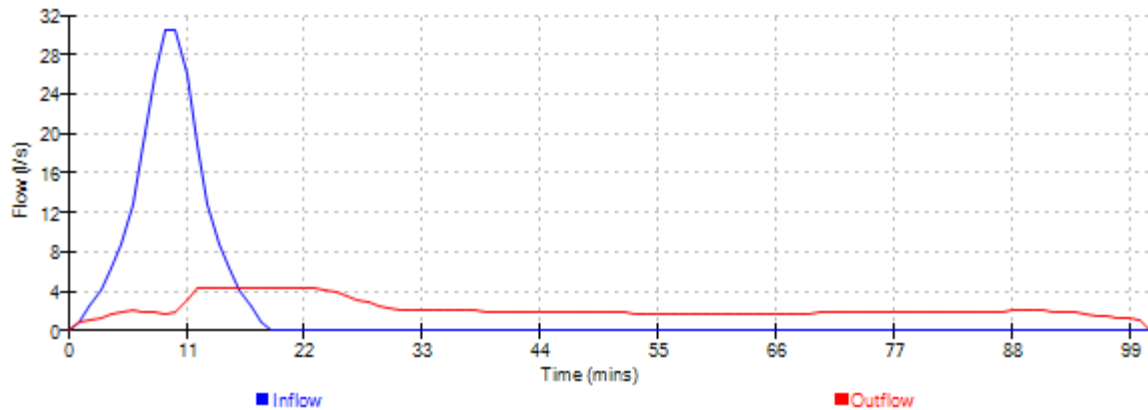
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Summer



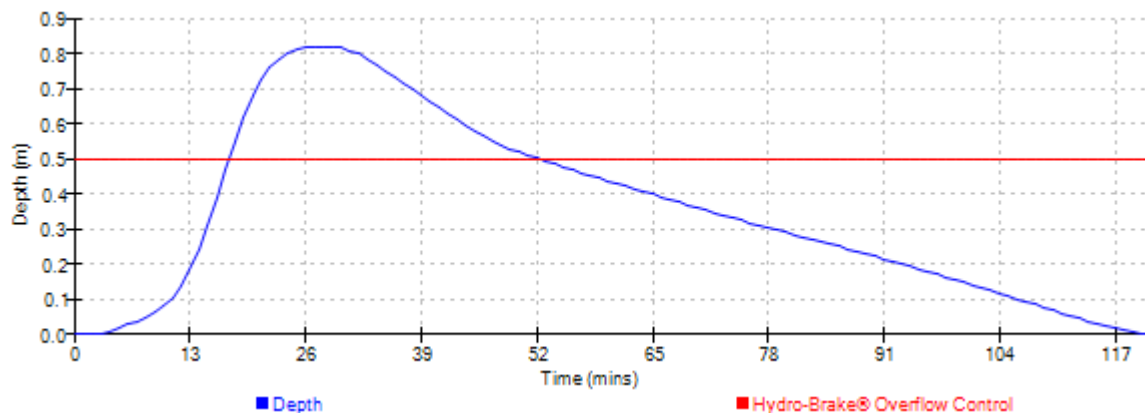
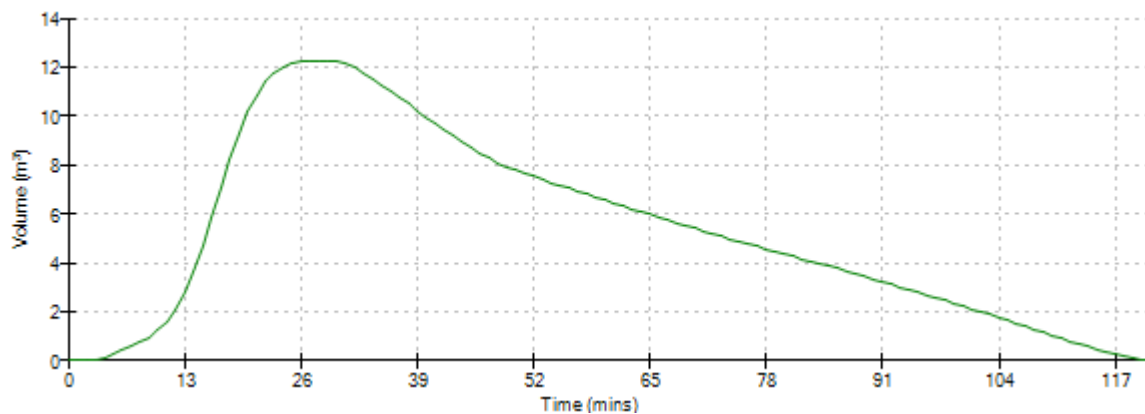
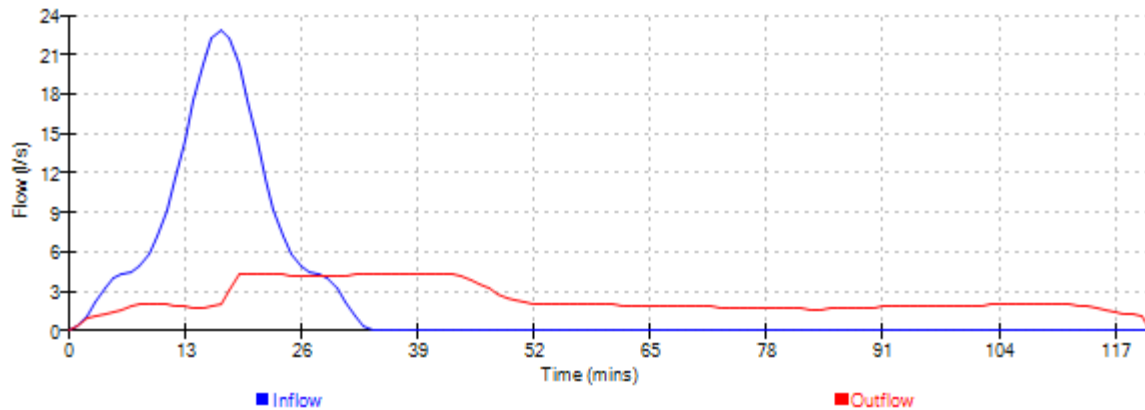
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Event: 15 min Winter



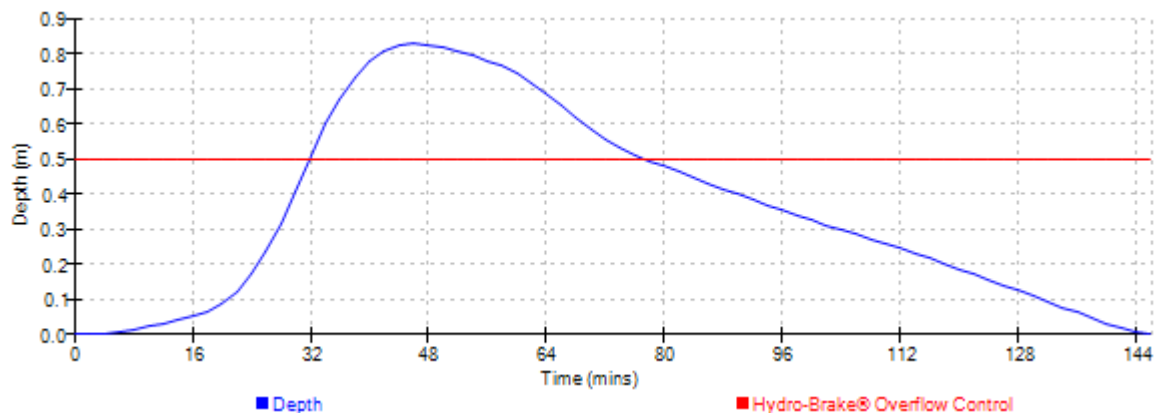
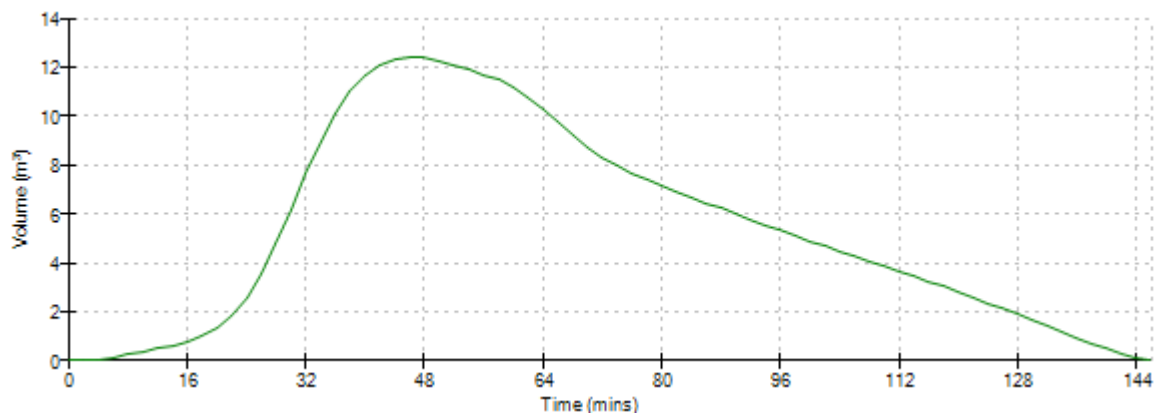
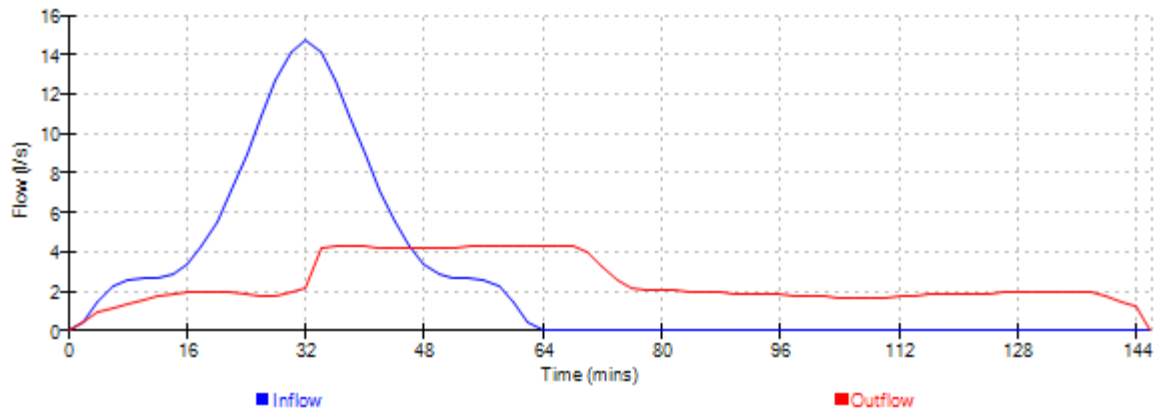
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55 Shepherds Lane Dartford DA1 2NL		
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Event: 30 min Winter



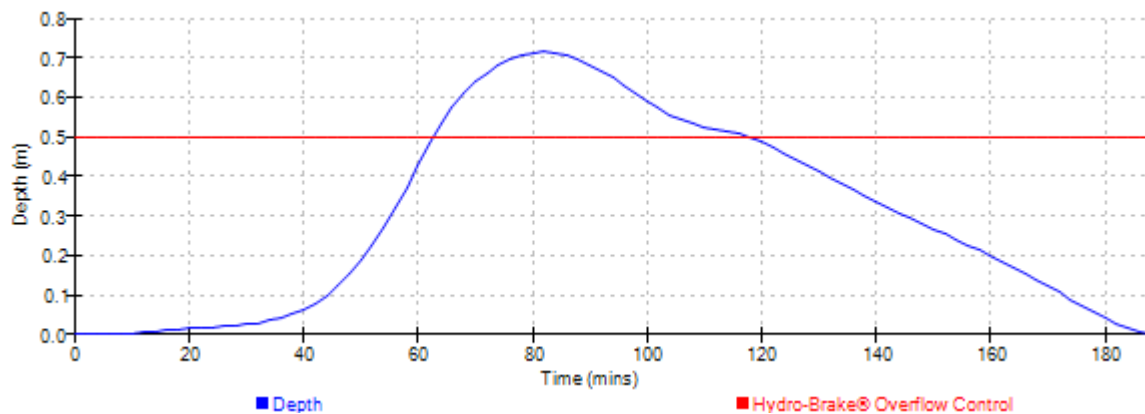
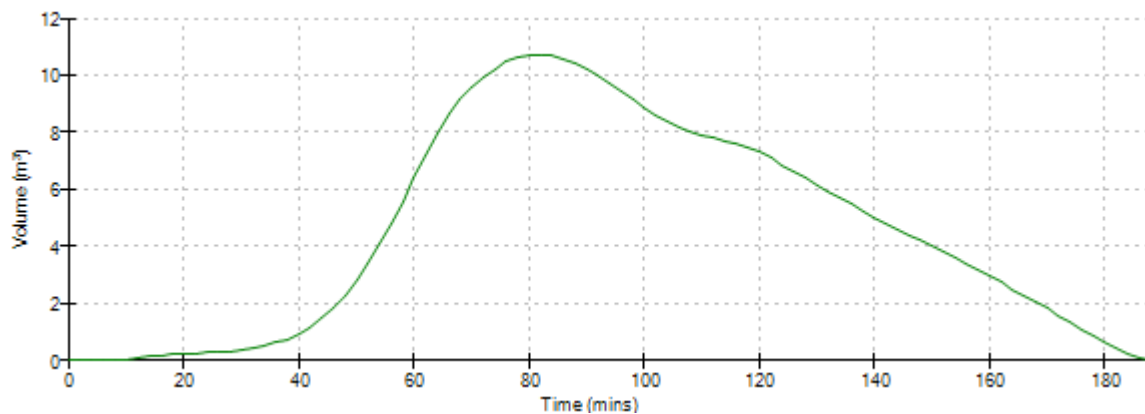
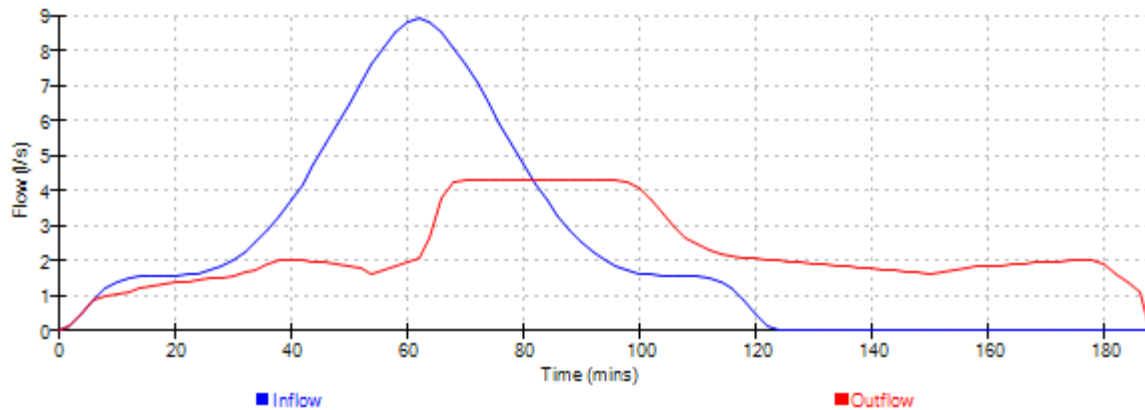
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Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 60 min Winter



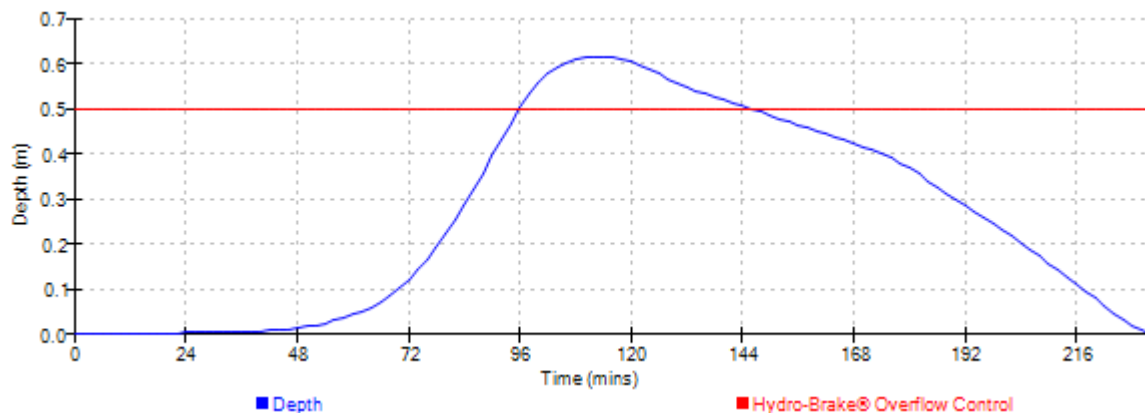
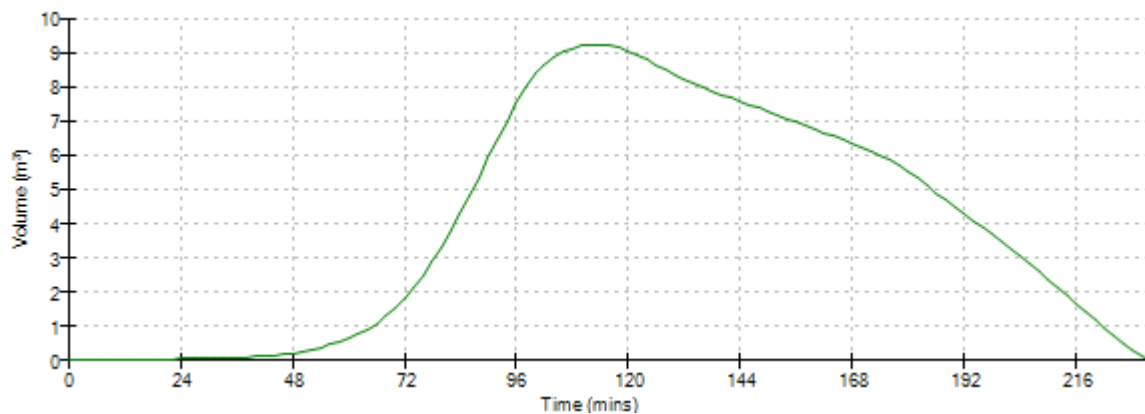
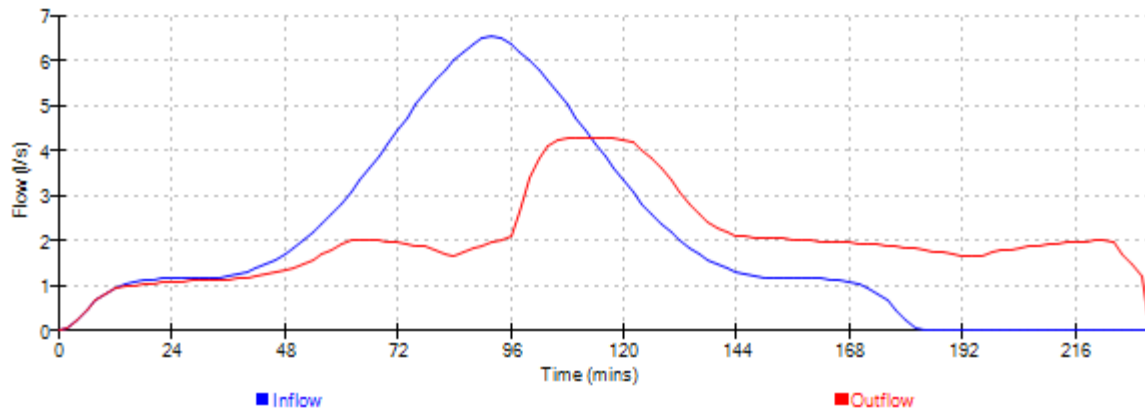
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 120 min Winter



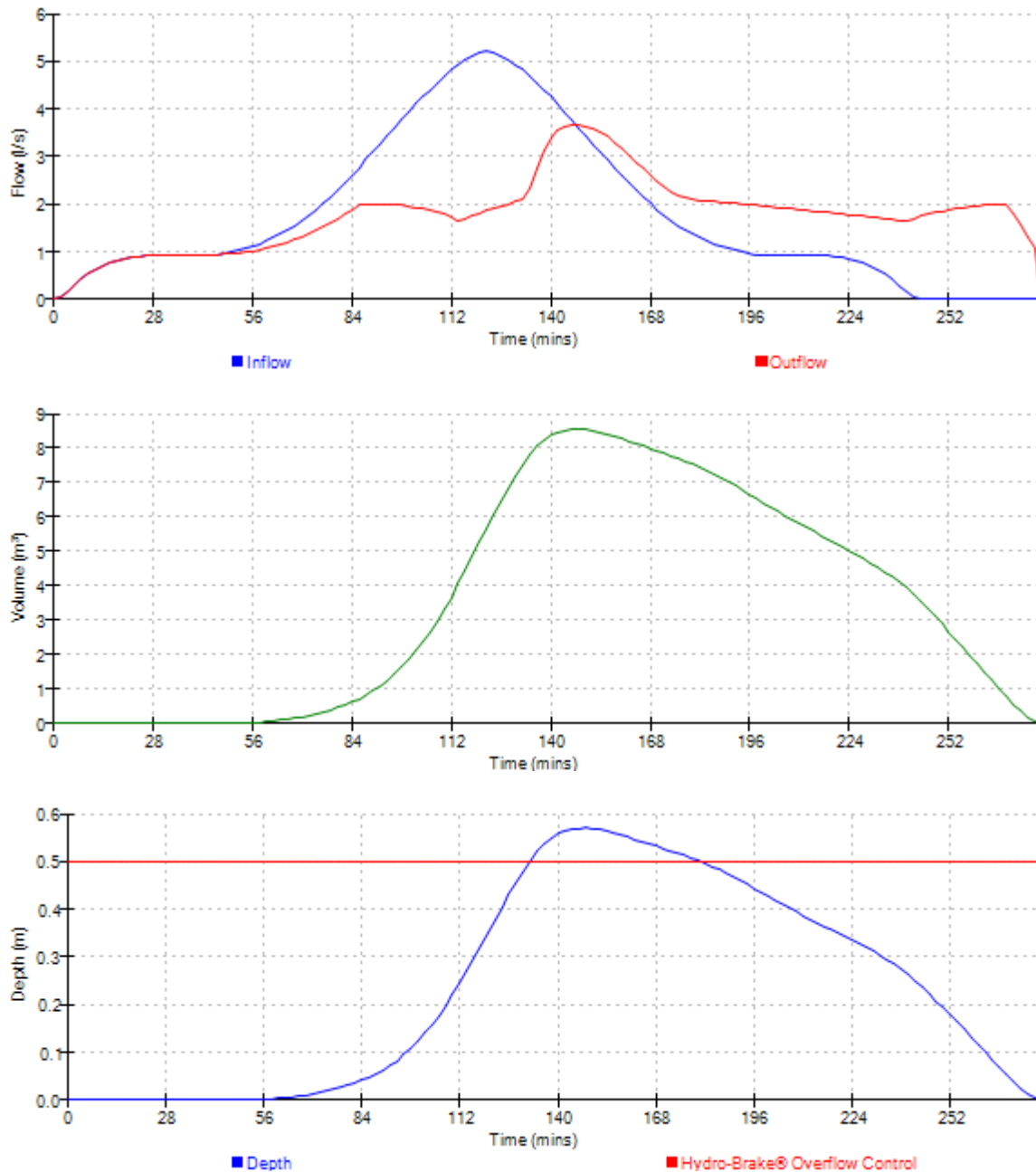
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Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 180 min Winter



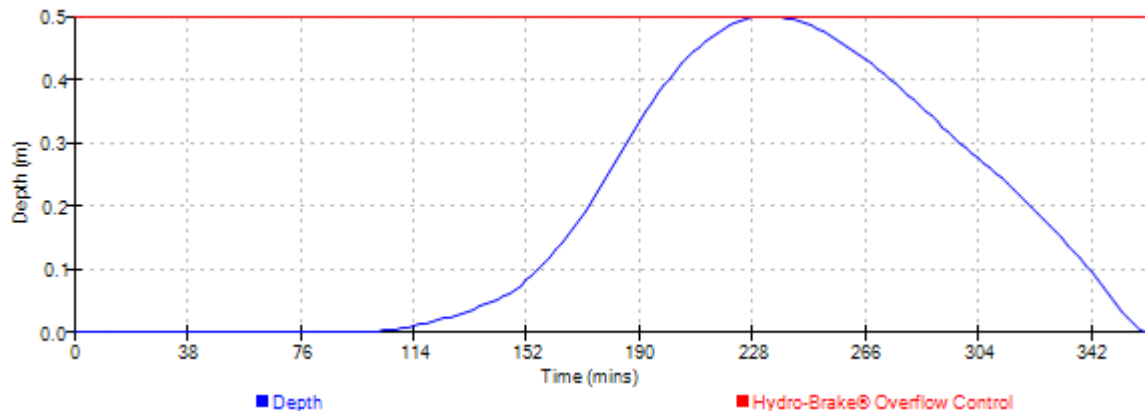
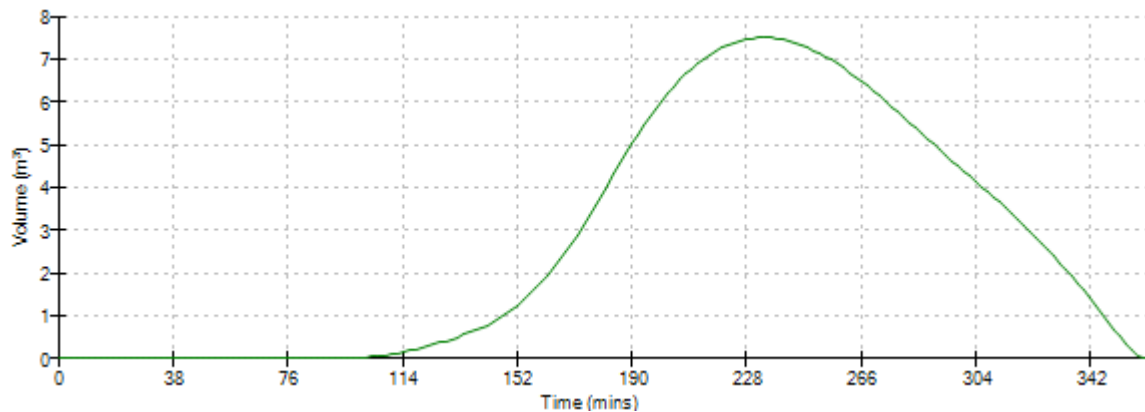
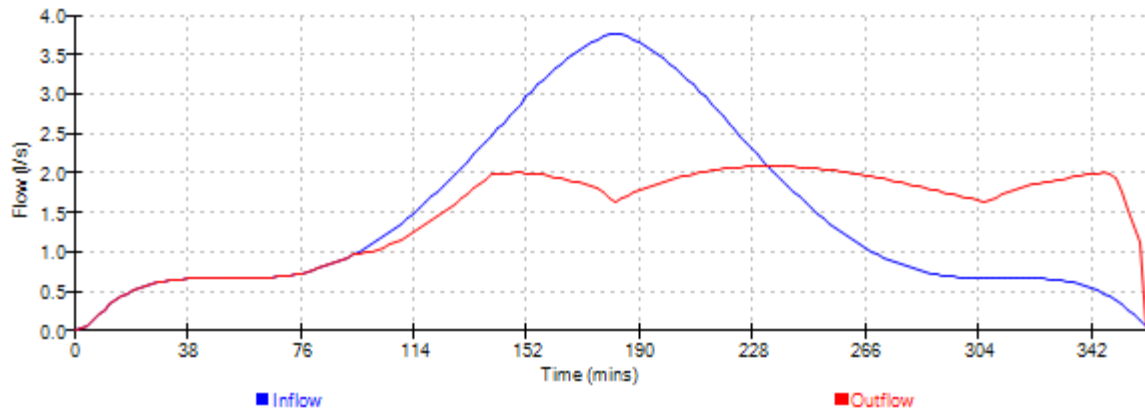
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 240 min Winter



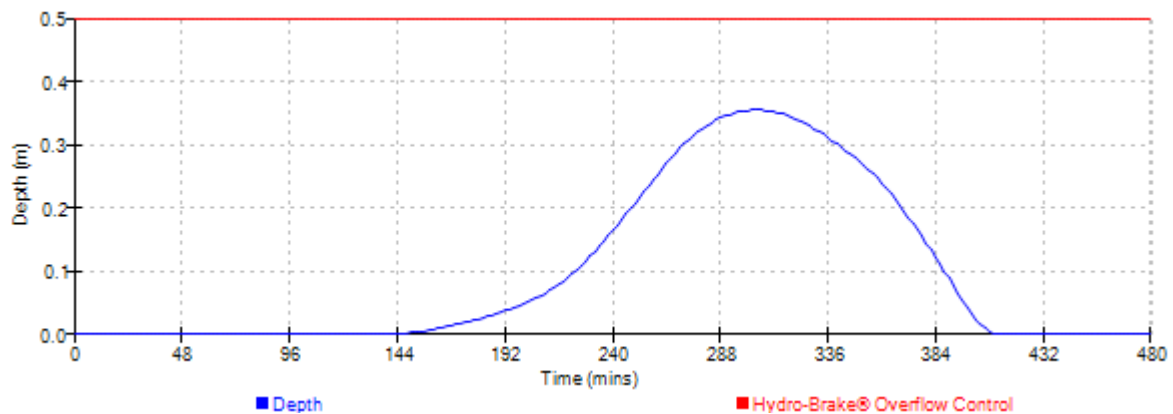
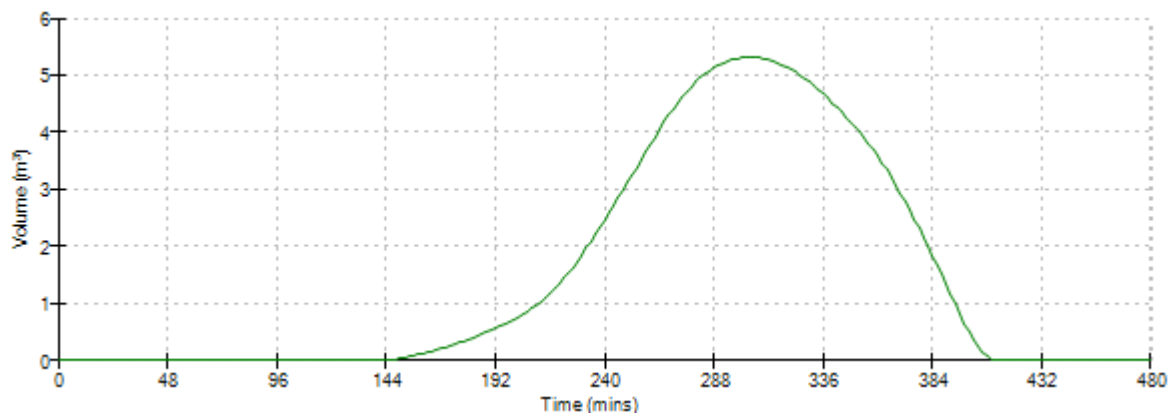
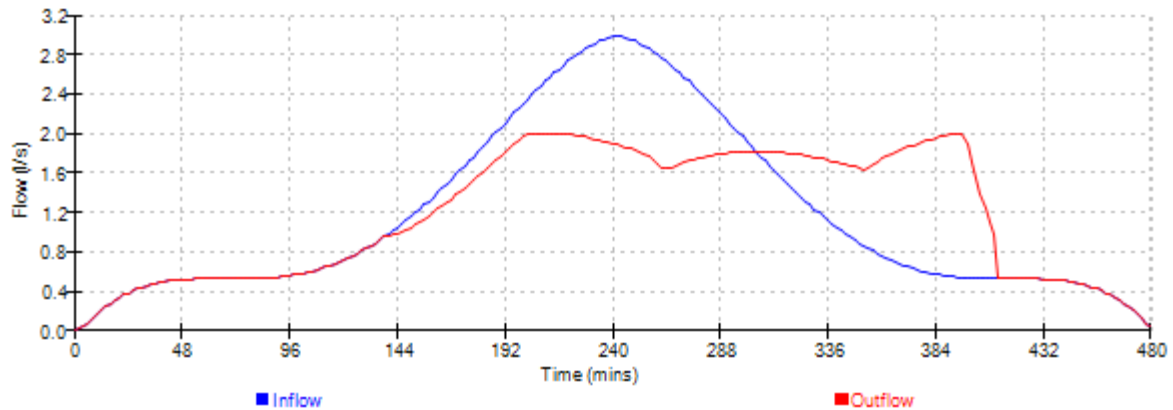
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 360 min Winter



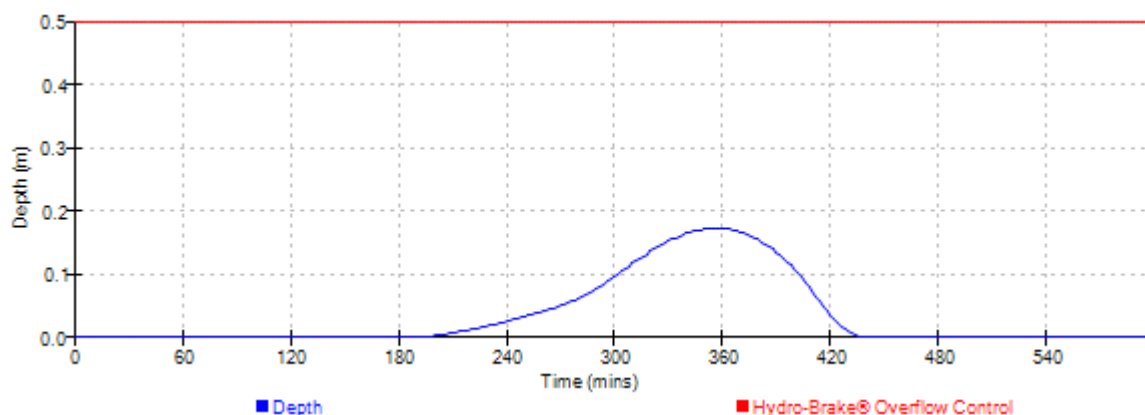
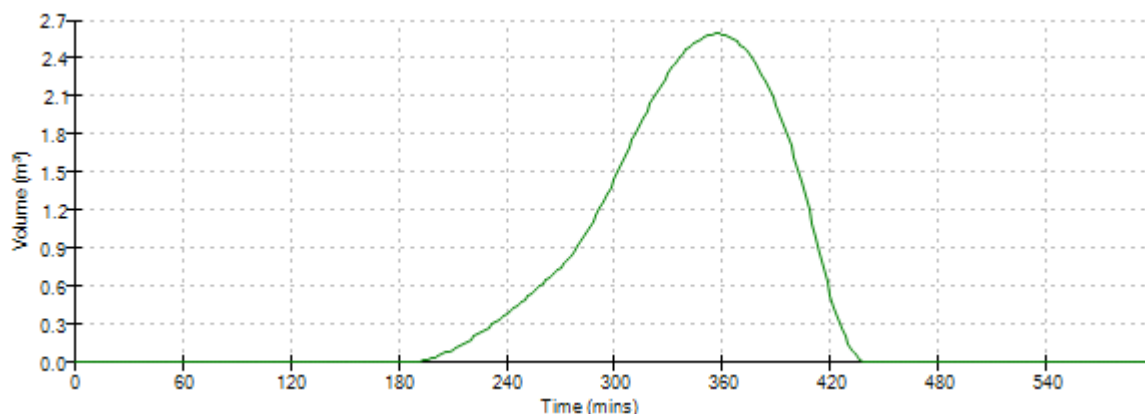
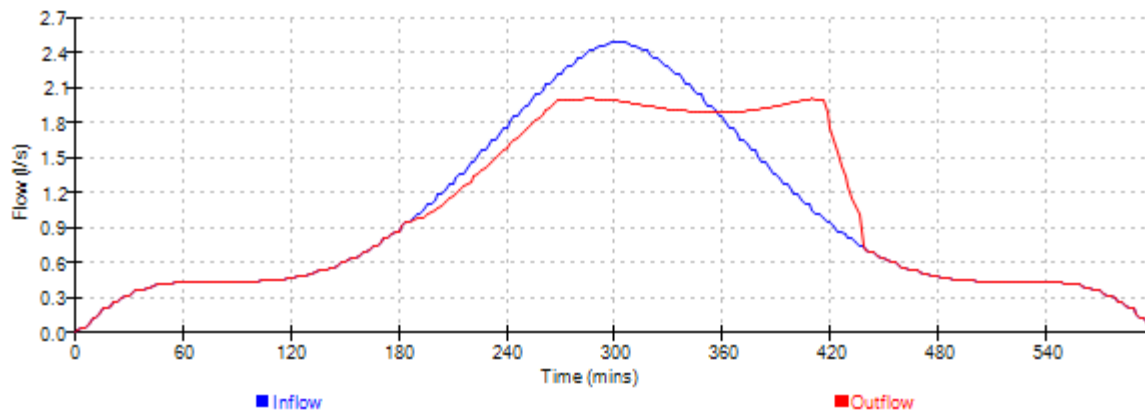
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
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Event: 480 min Winter



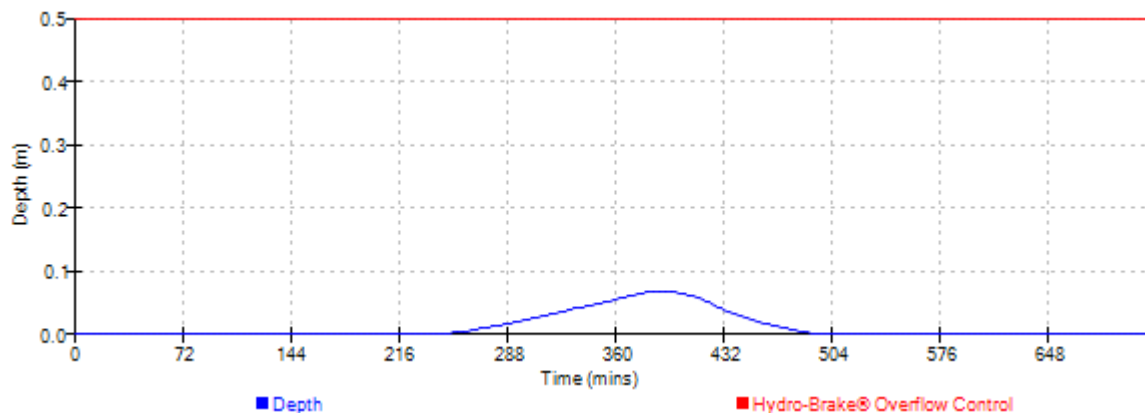
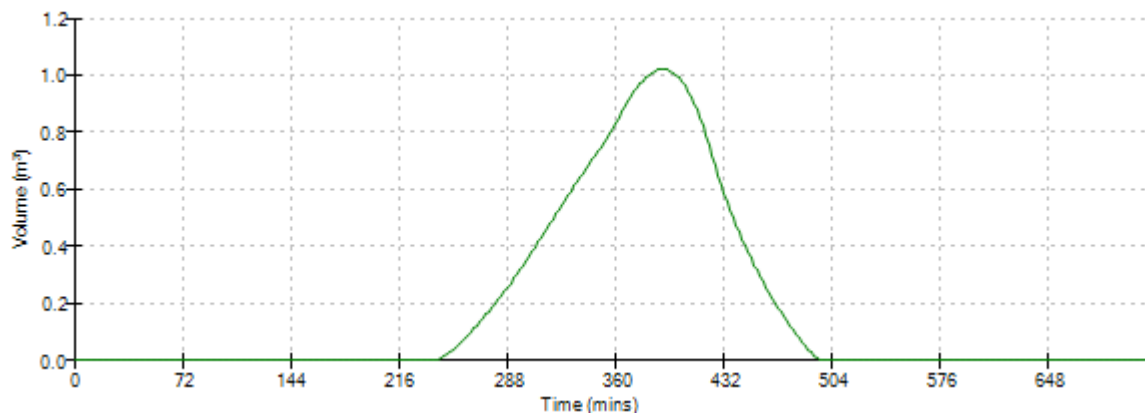
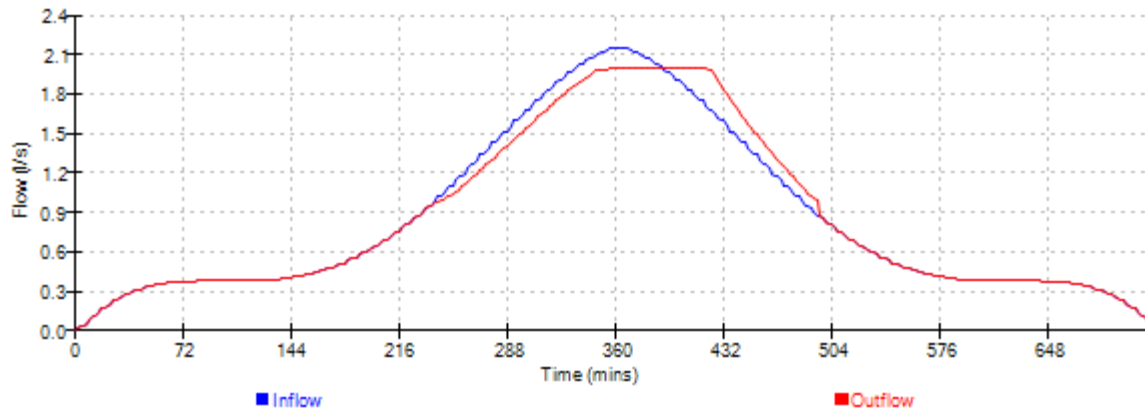
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 600 min Winter



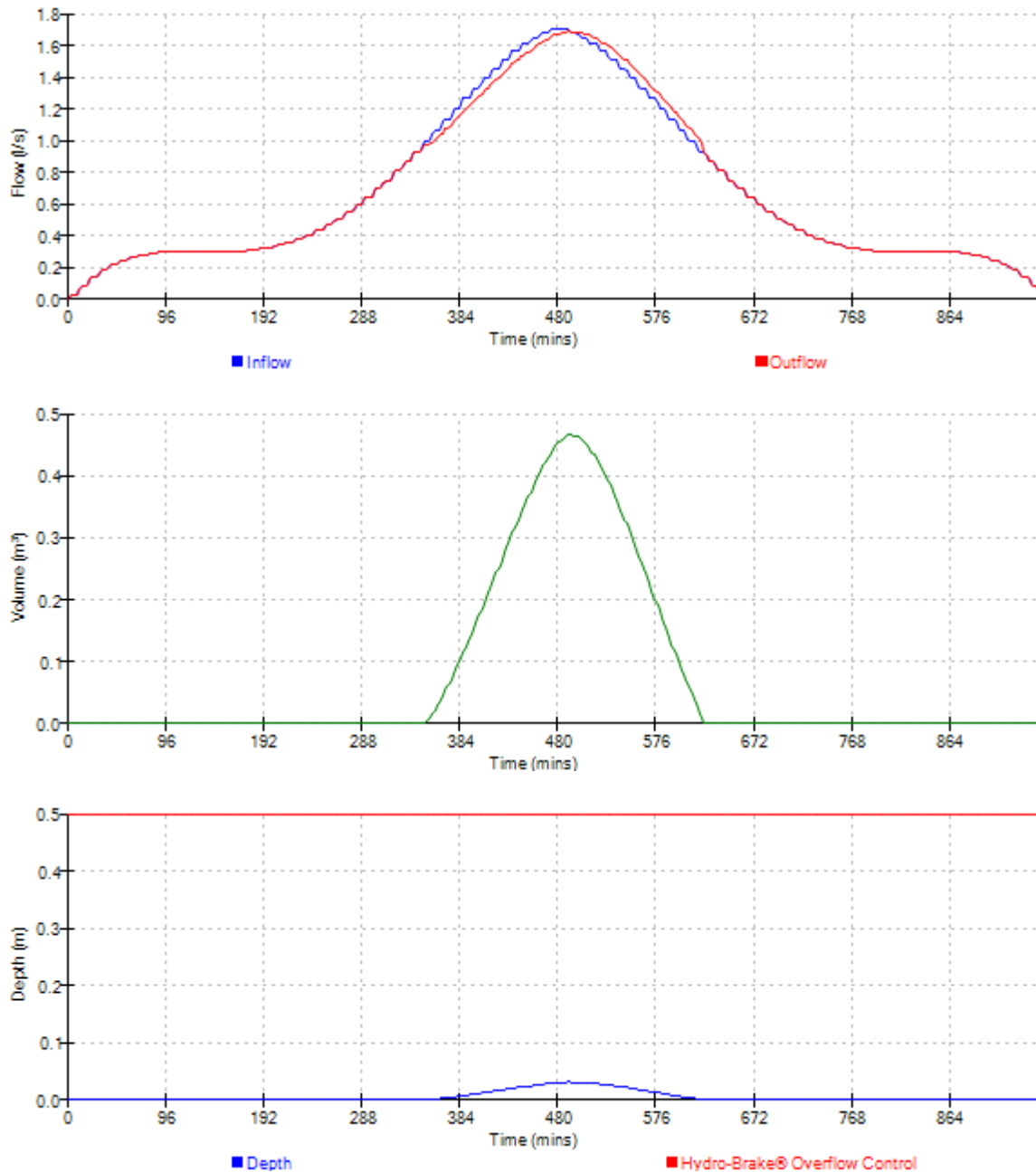
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 720 min Winter



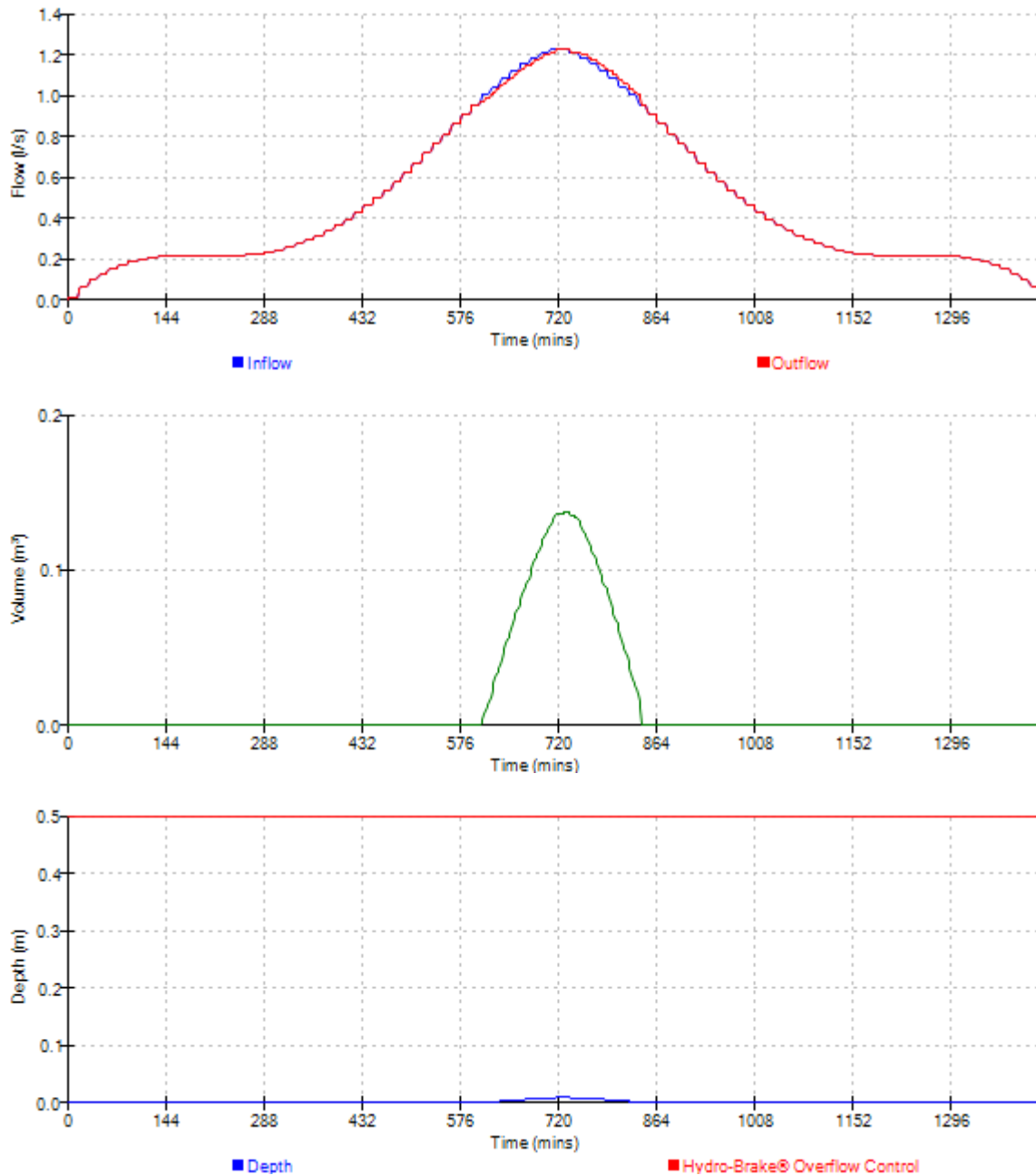
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 960 min Winter



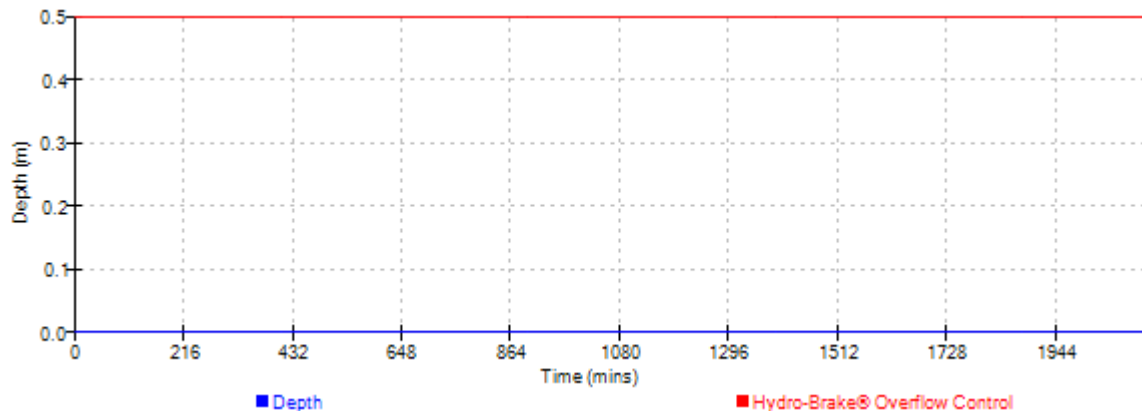
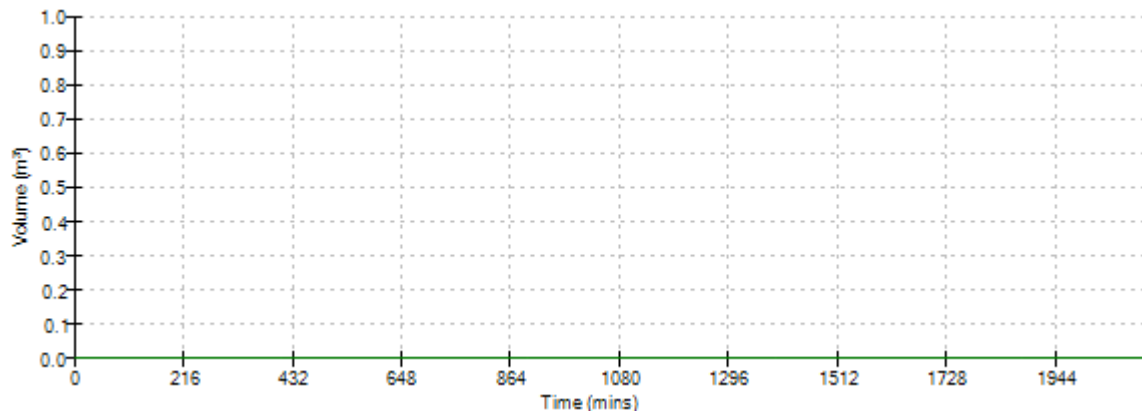
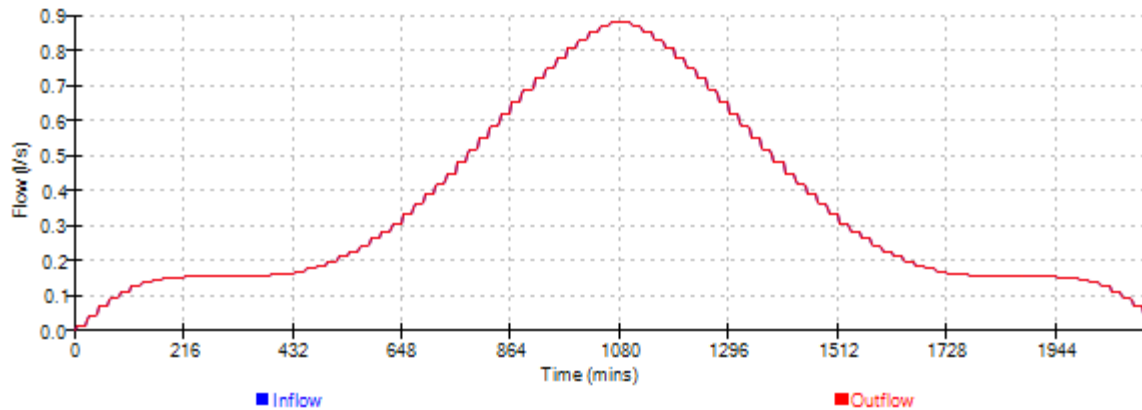
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Winter



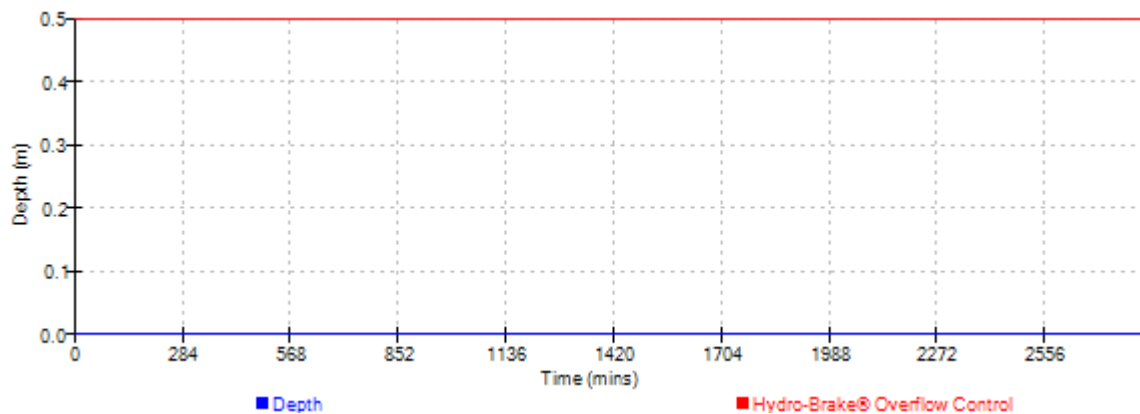
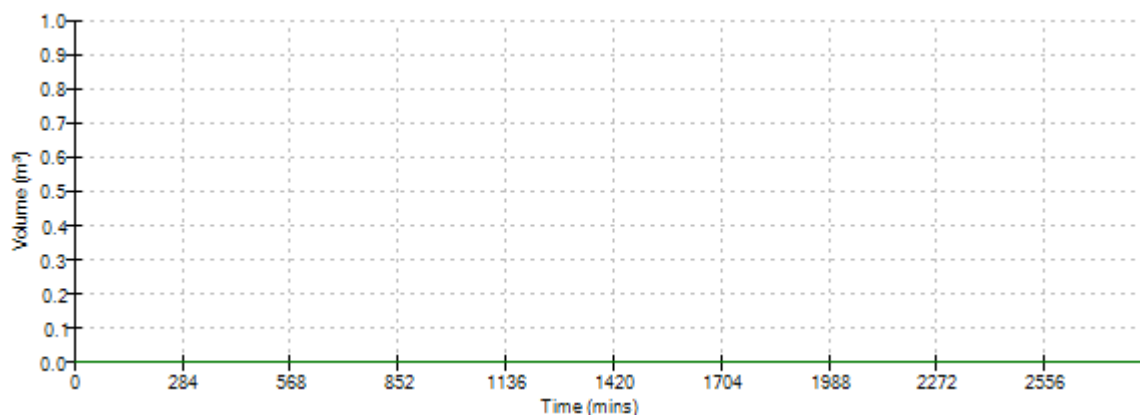
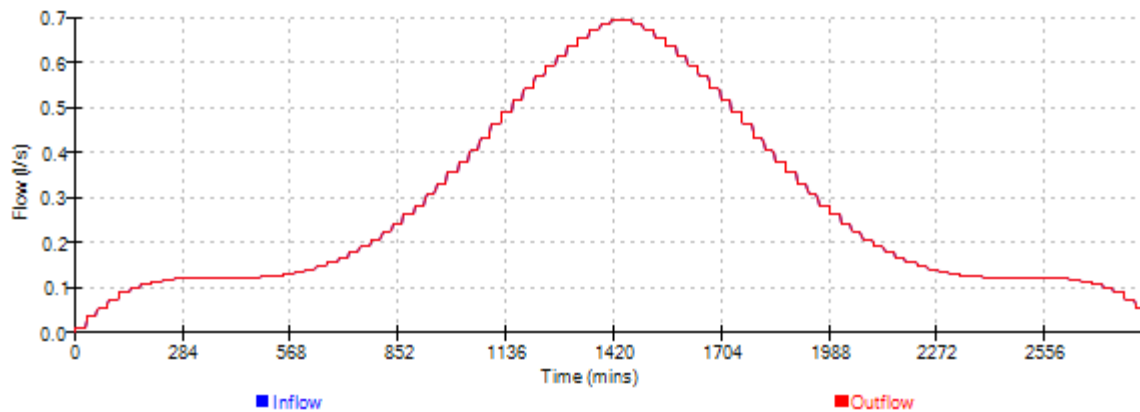
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Winter



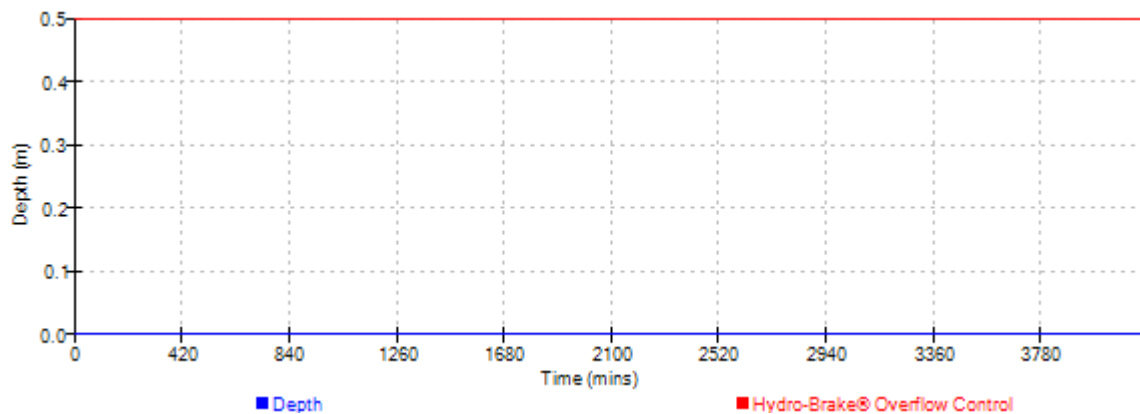
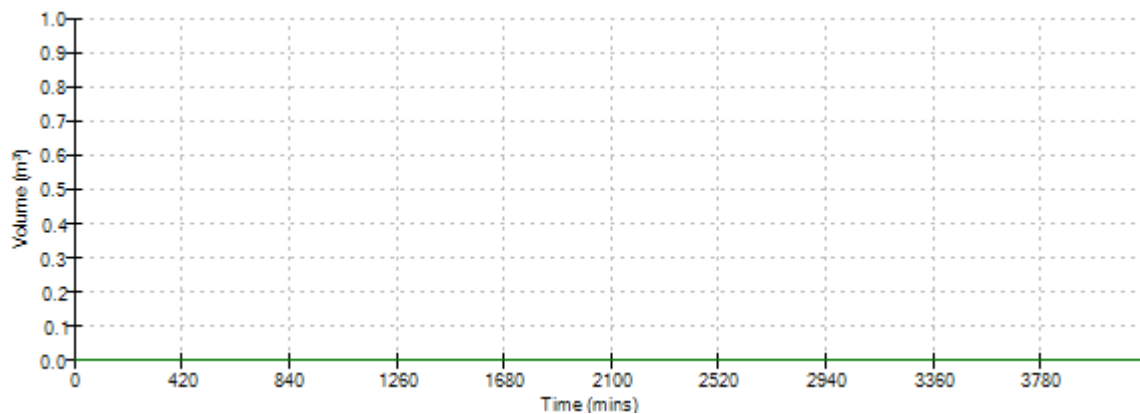
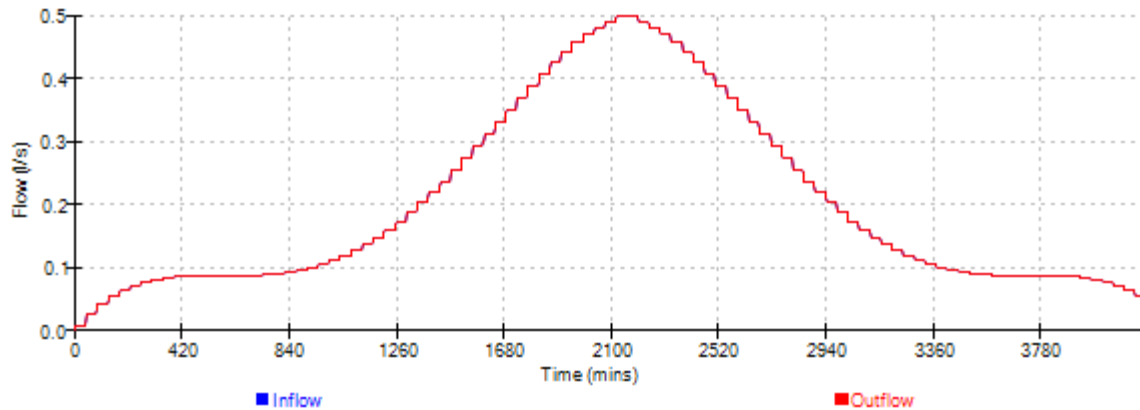
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Winter



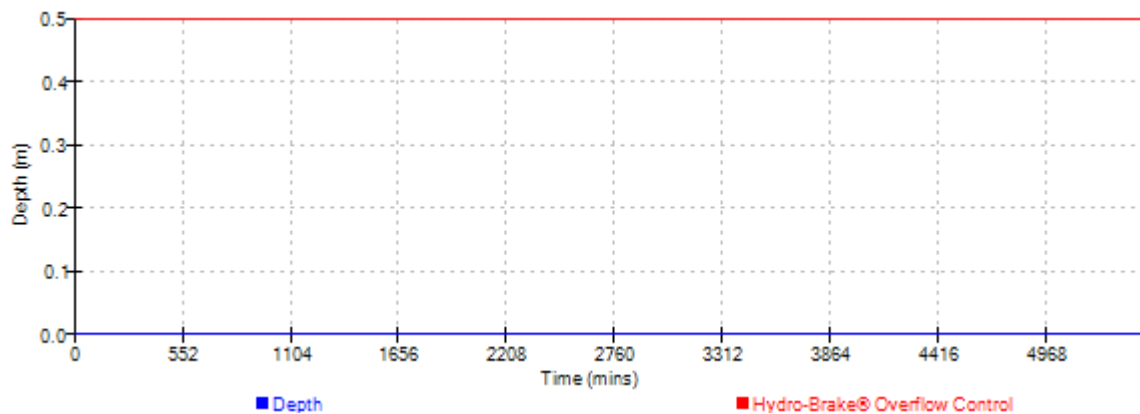
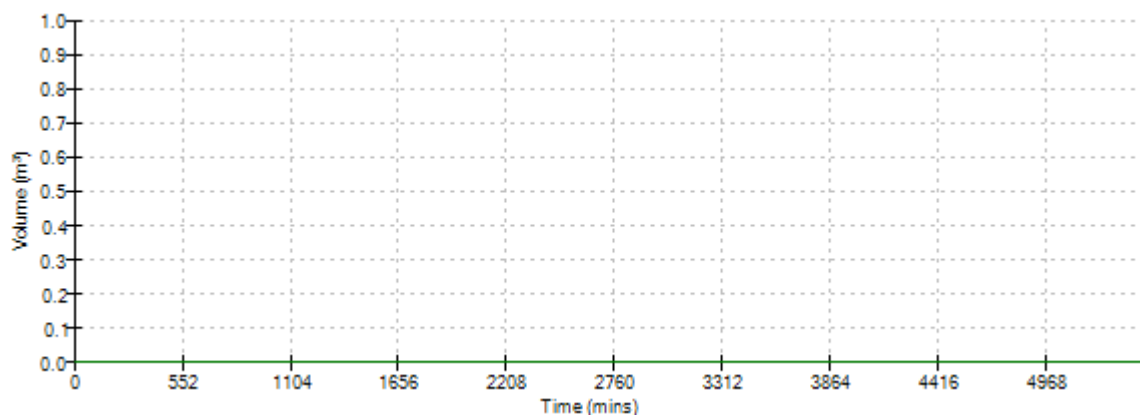
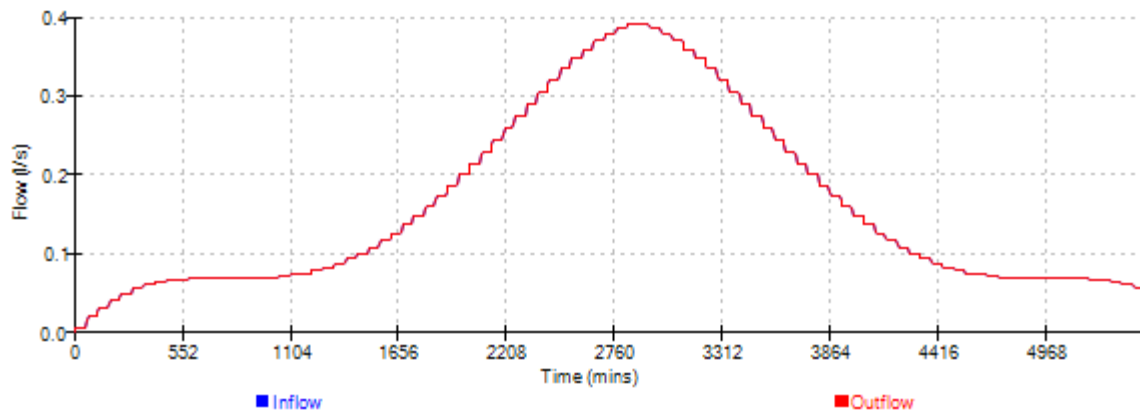
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55 Shepherds Lane Dartford DA1 2NL		
Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Winter



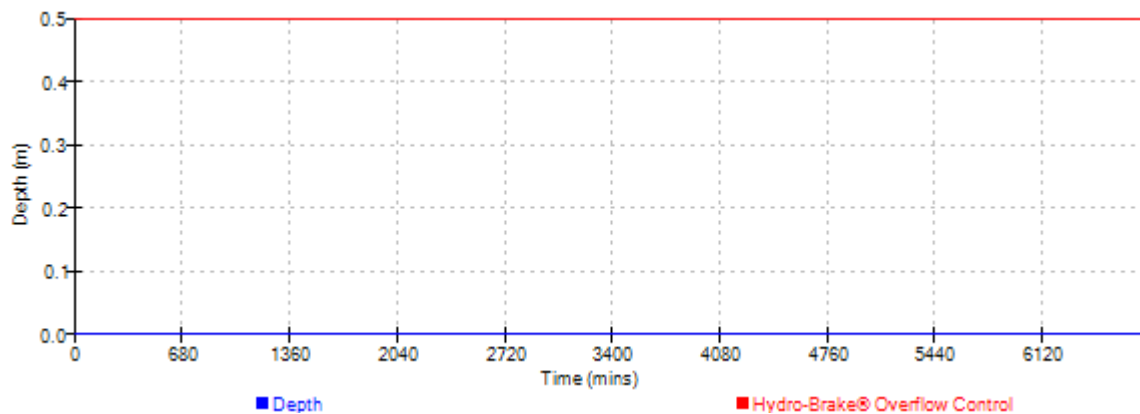
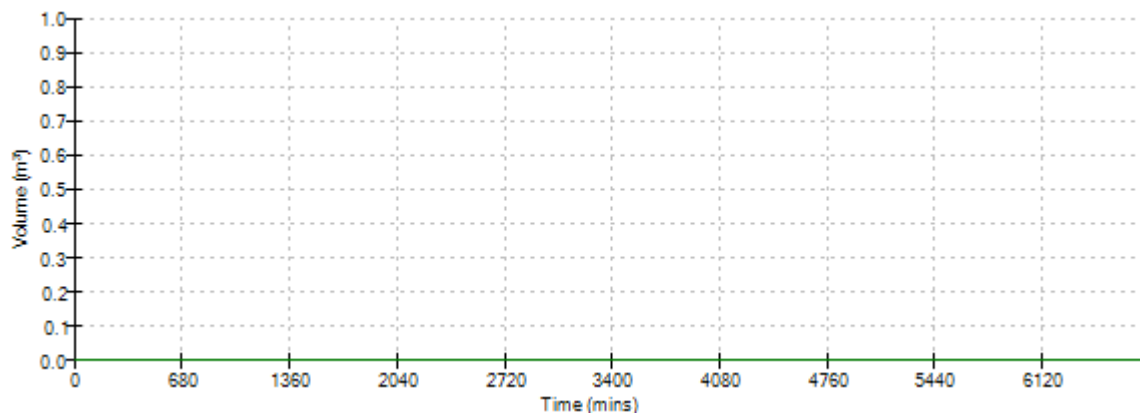
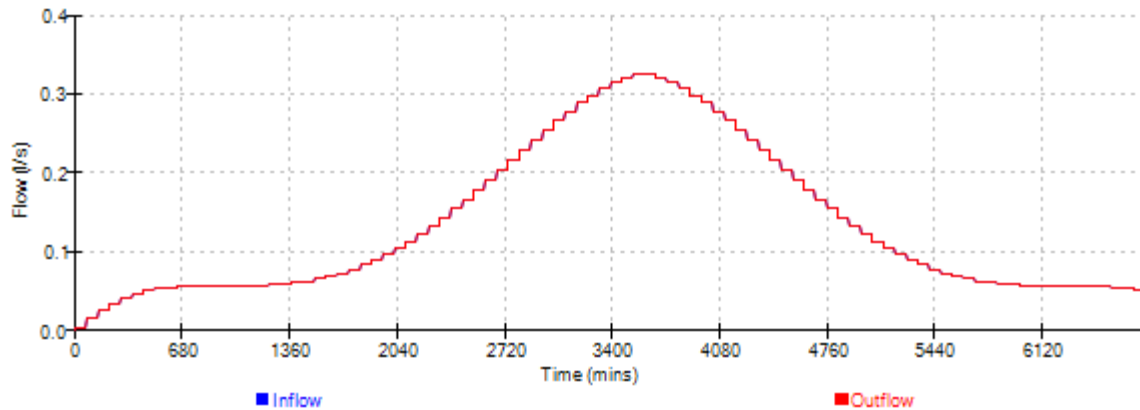
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Date 16/02/2021 17:29 File 139 North Hyde Road.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Winter



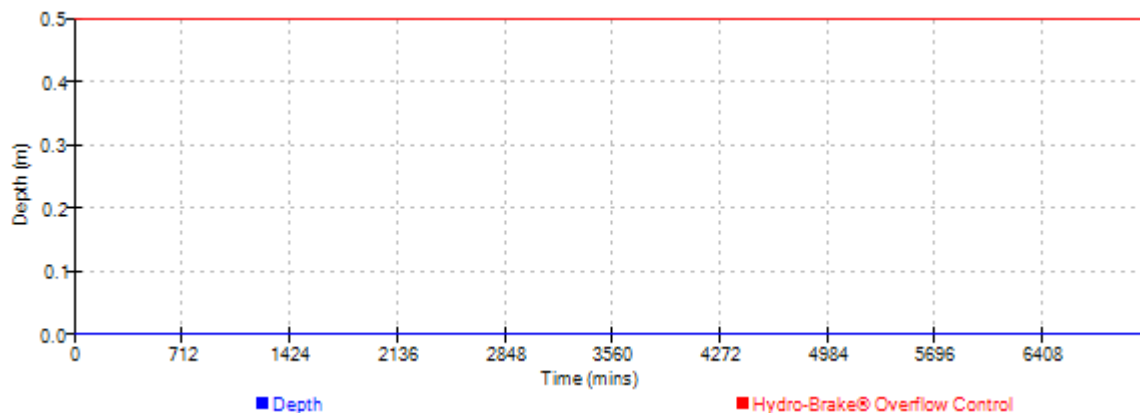
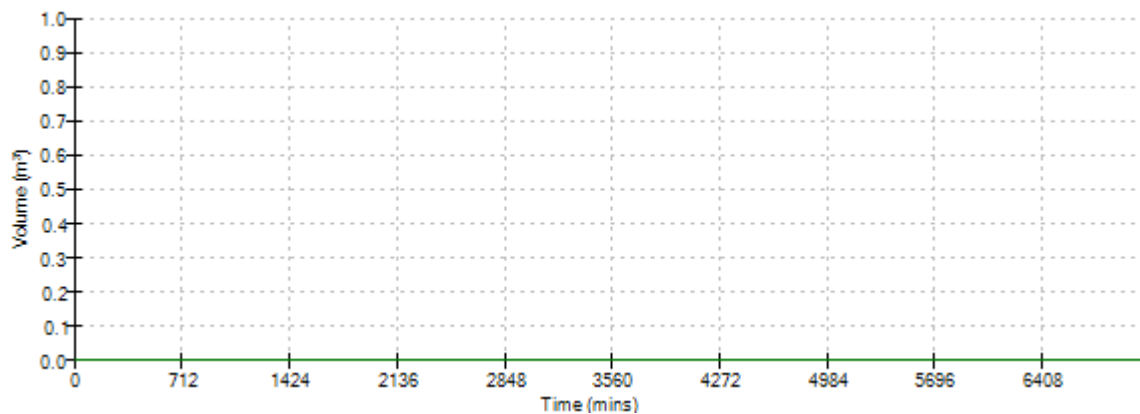
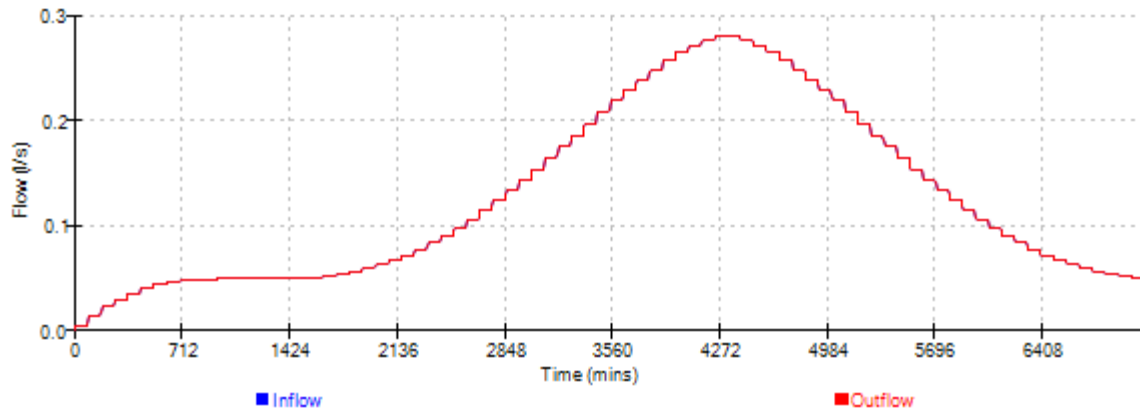
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Innovyze	Source Control 2020.1	

Event: 7200 min Winter



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Event: 8640 min Winter



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Innovyze	Source Control 2020.1	

Event: 10080 min Winter

