

Appendix G Attenuation Storage Modelling Output Summary

Easy Flood Risk							Page 1
55 Shepherds Lane Dartford DA1 2NL							
Date 14/03/2023 07:04 File Twin Brook.SRCX				Designed by sheph 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 (1/s)	Max Overflow (1/s)	Max Σ Outflow (1/s)	Max Volume (m³)	Status
15 min Summer	81.962	0.362	3.5	0.0	3.5	10.9	O K
30 min Summer	82.057	0.457	3.5	1.0	4.3	13.7	O K
60 min Summer	82.119	0.519	3.6	1.5	5.1	15.6	O K
120 min Summer	82.136	0.536	3.6	1.5	5.1	16.1	O K
180 min Summer	82.110	0.510	3.5	1.5	5.0	15.3	O K
240 min Summer	82.085	0.485	3.5	1.4	4.9	14.5	O K
360 min Summer	82.044	0.444	3.5	0.7	4.0	13.3	O K
480 min Summer	81.998	0.398	3.5	0.0	3.5	11.9	O K
600 min Summer	81.932	0.332	3.5	0.0	3.5	10.0	O K
720 min Summer	81.853	0.253	3.5	0.0	3.5	7.6	O K
960 min Summer	81.756	0.156	3.5	0.0	3.5	4.7	O K
1440 min Summer	81.702	0.102	3.1	0.0	3.1	3.1	O K
2160 min Summer	81.678	0.078	2.4	0.0	2.4	2.3	O K
2880 min Summer	81.667	0.067	1.9	0.0	1.9	2.0	O K
4320 min Summer	81.656	0.056	1.4	0.0	1.4	1.7	O K
5760 min Summer	81.649	0.049	1.2	0.0	1.2	1.5	O K
7200 min Summer	81.645	0.045	1.0	0.0	1.0	1.3	O K
8640 min Summer	81.642	0.042	0.9	0.0	0.9	1.2	O K
10080 min Summer	81.639	0.039	0.8	0.0	0.8	1.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	115.911	0.0	13.0	0.0	17		
30 min Summer	82.469	0.0	18.5	0.7	27		
60 min Summer	56.129	0.0	25.2	2.4	44		
120 min Summer	36.602	0.0	32.9	3.1	78		
180 min Summer	27.845	0.0	37.6	2.9	112		
240 min Summer	22.910	0.0	41.2	2.4	144		
360 min Summer	17.340	0.0	46.8	1.0	214		
480 min Summer	14.195	0.0	51.1	0.0	286		
600 min Summer	12.137	0.0	54.6	0.0	352		
720 min Summer	10.670	0.0	57.6	0.0	404		
960 min Summer	8.694	0.0	62.6	0.0	510		
1440 min Summer	6.492	0.0	70.1	0.0	736		
2160 min Summer	4.832	0.0	78.3	0.0	1100		
2880 min Summer	3.925	0.0	84.8	0.0	1456		
4320 min Summer	2.930	0.0	94.9	0.0	2184		
5760 min Summer	2.385	0.0	103.0	0.0	2928		
7200 min Summer	2.037	0.0	110.0	0.0	3624		
8640 min Summer	1.794	0.0	116.2	0.0	4304		
10080 min Summer	1.613	0.0	121.9	0.0	5008		
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Easy Flood Risk							Page 2
55 Shepherds Lane Dartford DA1 2NL							
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<u>Summary of Results for 100 year Return Period (+40%)</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (1/s)	Max Overflow (1/s)	Max Σ Outflow (1/s)	Max Volume (m³)	Status
15 min Winter	82.011	0.411	3.5	0.1	3.5	12.3	O K
30 min Winter	82.112	0.512	3.5	1.5	5.0	15.4	O K
60 min Winter	82.187	0.587	3.8	1.5	5.2	17.6	O K
120 min Winter	82.189	0.589	3.8	1.5	5.2	17.7	O K
180 min Winter	82.140	0.540	3.6	1.5	5.1	16.2	O K
240 min Winter	82.095	0.495	3.5	1.5	5.0	14.8	O K
360 min Winter	82.037	0.437	3.5	0.5	3.8	13.1	O K
480 min Winter	81.946	0.346	3.5	0.0	3.5	10.4	O K
600 min Winter	81.810	0.210	3.5	0.0	3.5	6.3	O K
720 min Winter	81.734	0.134	3.5	0.0	3.5	4.0	O K
960 min Winter	81.700	0.100	3.0	0.0	3.0	3.0	O K
1440 min Winter	81.676	0.076	2.3	0.0	2.3	2.3	O K
2160 min Winter	81.662	0.062	1.7	0.0	1.7	1.9	O K
2880 min Winter	81.655	0.055	1.4	0.0	1.4	1.6	O K
4320 min Winter	81.646	0.046	1.0	0.0	1.0	1.4	O K
5760 min Winter	81.641	0.041	0.8	0.0	0.8	1.2	O K
7200 min Winter	81.637	0.037	0.7	0.0	0.7	1.1	O K
8640 min Winter	81.635	0.035	0.6	0.0	0.6	1.0	O K
10080 min Winter	81.633	0.033	0.6	0.0	0.6	1.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Winter	115.911	0.0	14.6	0.0	17		
30 min Winter	82.469	0.0	20.8	1.5	28		
60 min Winter	56.129	0.0	28.3	3.2	46		
120 min Winter	36.602	0.0	36.9	4.5	84		
180 min Winter	27.845	0.0	42.1	4.2	120		
240 min Winter	22.910	0.0	46.2	3.5	152		
360 min Winter	17.340	0.0	52.4	0.9	228		
480 min Winter	14.195	0.0	57.2	0.0	306		
600 min Winter	12.137	0.0	61.2	0.0	354		
720 min Winter	10.670	0.0	64.5	0.0	392		
960 min Winter	8.694	0.0	70.1	0.0	498		
1440 min Winter	6.492	0.0	78.5	0.0	736		
2160 min Winter	4.832	0.0	87.7	0.0	1104		
2880 min Winter	3.925	0.0	94.9	0.0	1456		
4320 min Winter	2.930	0.0	106.3	0.0	2140		
5760 min Winter	2.385	0.0	115.4	0.0	2872		
7200 min Winter	2.037	0.0	123.2	0.0	3544		
8640 min Winter	1.794	0.0	130.2	0.0	4376		
10080 min Winter	1.613	0.0	136.6	0.0	5136		
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Easy Flood Risk		Page 3
55 Shepherds Lane Dartford DA1 2NL		
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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)	19.800	Shortest Storm (mins)	15
Ratio R	0.250	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.060

Time (mins)	Area
From:	To: (ha)
0	4 0.060

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Easy Flood Risk		Page 4
55 Shepherds Lane Dartford DA1 2NL		
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Model Details

Storage is Online Cover Level (m) 82.500

Tank or Pond Structure

Invert Level (m) 81.600

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	30.0	0.400	30.0

Hydro-Brake® Optimum Outflow Control

Unit Reference	MD-SCL-0089-3500-0500-3500
Design Head (m)	0.500
Design Flow (l/s)	3.5
Flush-Flo™	Calculated
Objective	Minimise blockage risk
Application	Surface
Sump Available	Yes
Diameter (mm)	89
Invert Level (m)	81.600
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.500	3.5	Kick-Flo®	0.319	2.9
Flush-Flo™	0.124	3.5	Mean Flow over Head Range	-	2.9

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	3.0	1.200	5.2	3.000	8.0	7.000	12.1
0.200	3.4	1.400	5.6	3.500	8.6	7.500	12.5
0.300	3.0	1.600	6.0	4.000	9.2	8.000	12.9
0.400	3.2	1.800	6.3	4.500	9.7	8.500	13.3
0.500	3.5	2.000	6.6	5.000	10.2	9.000	13.7
0.600	3.8	2.200	6.9	5.500	10.7	9.500	14.1
0.800	4.3	2.400	7.2	6.000	11.2		
1.000	4.8	2.600	7.5	6.500	11.6		

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Easy Flood Risk		Page 5
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
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Hydro-Brake® Optimum Overflow Control

Unit Reference	MD-SCL-0061-1500-0500-1500
Design Head (m)	0.500
Design Flow (l/s)	1.5
Flush-Flo™	Calculated
Objective	Minimise blockage risk
Application	Surface
Sump Available	Yes
Diameter (mm)	61
Invert Level (m)	82.000
Minimum Outlet Pipe Diameter (mm)	75
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.500	1.5	Kick-Flo®	0.308	1.2
Flush-Flo™	0.122	1.5	Mean Flow over Head Range	-	1.3

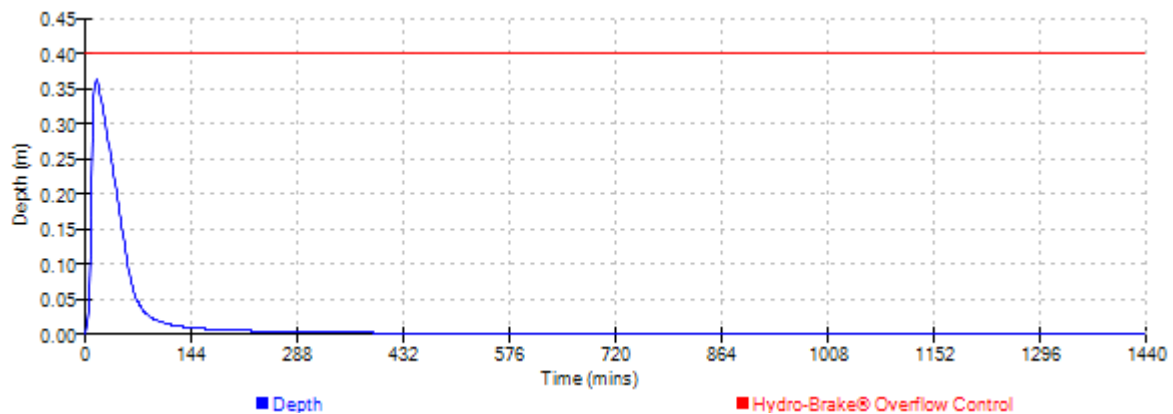
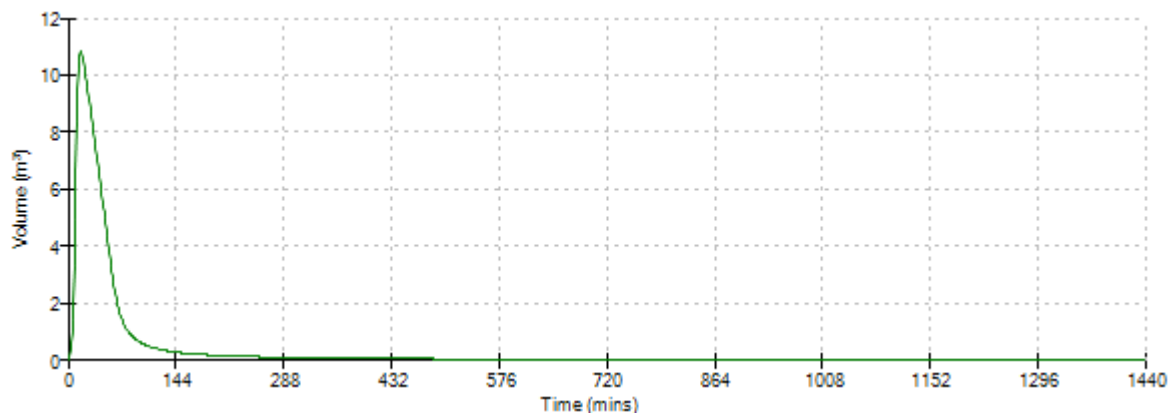
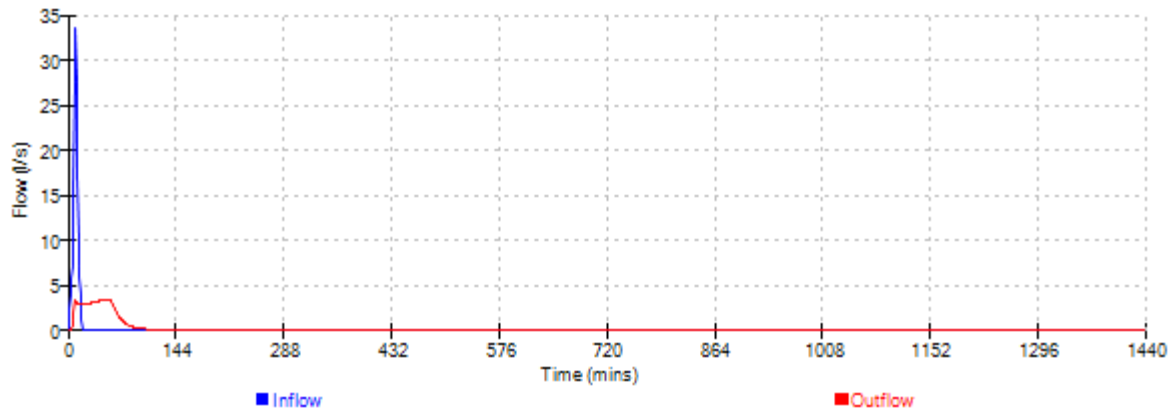
The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	1.5	1.200	2.2	3.000	3.4	7.000	5.1
0.200	1.4	1.400	2.4	3.500	3.6	7.500	5.2
0.300	1.3	1.600	2.5	4.000	3.9	8.000	5.4
0.400	1.4	1.800	2.7	4.500	4.1	8.500	5.6
0.500	1.5	2.000	2.8	5.000	4.3	9.000	5.7
0.600	1.6	2.200	2.9	5.500	4.5	9.500	5.9
0.800	1.8	2.400	3.0	6.000	4.7		
1.000	2.0	2.600	3.2	6.500	4.9		

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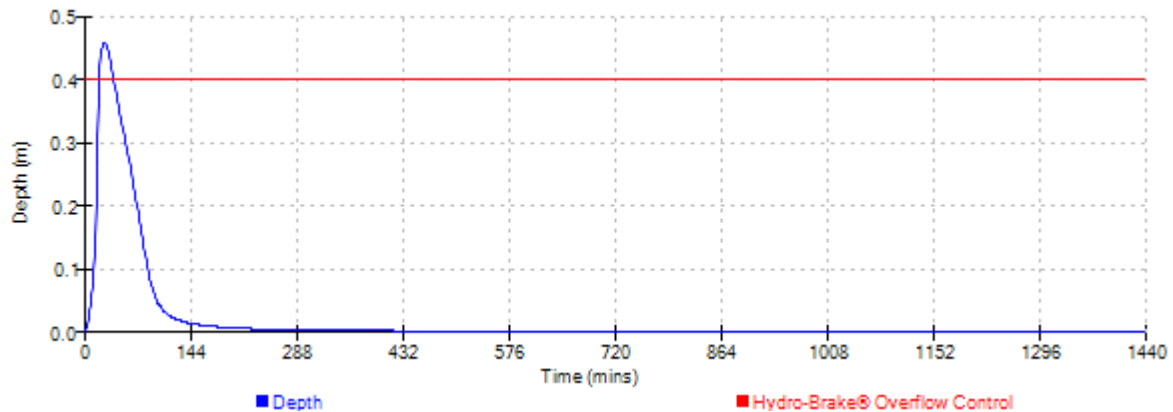
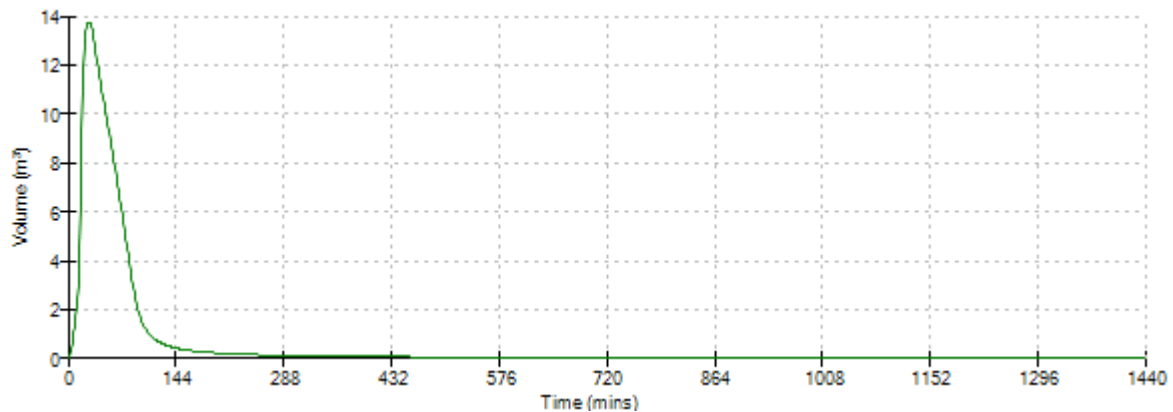
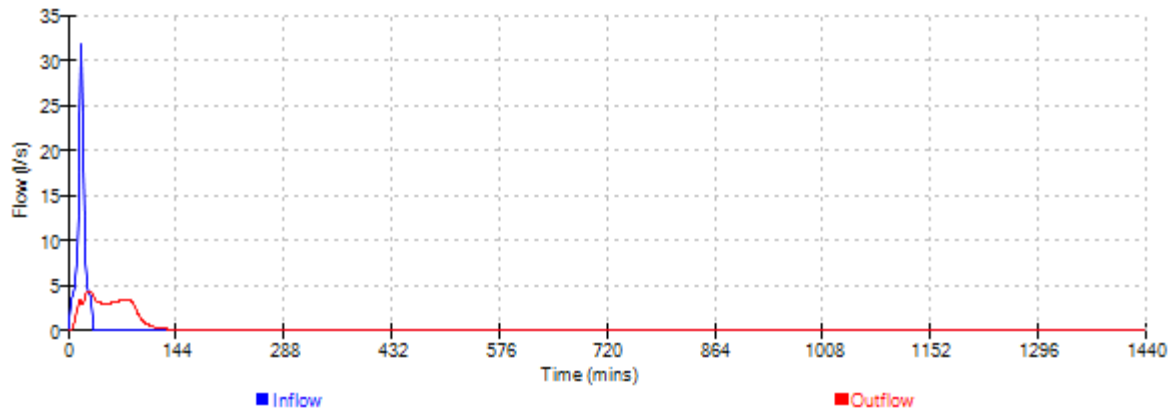
Easy Flood Risk		Page 6
55 Shepherds Lane Dartford DA1 2NL		
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Event: 15 min Summer



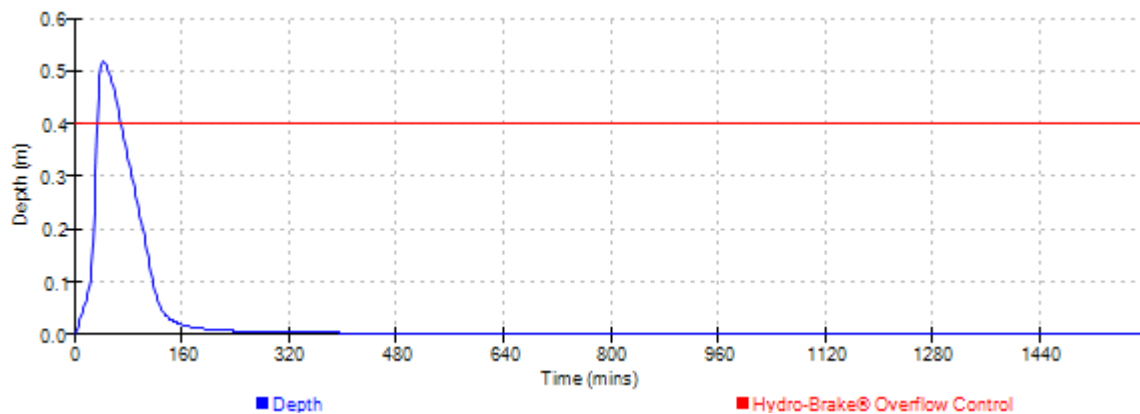
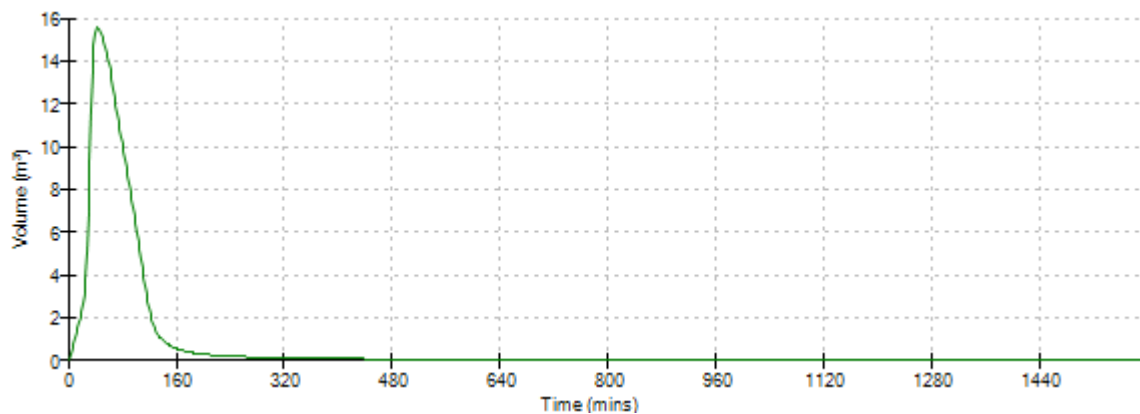
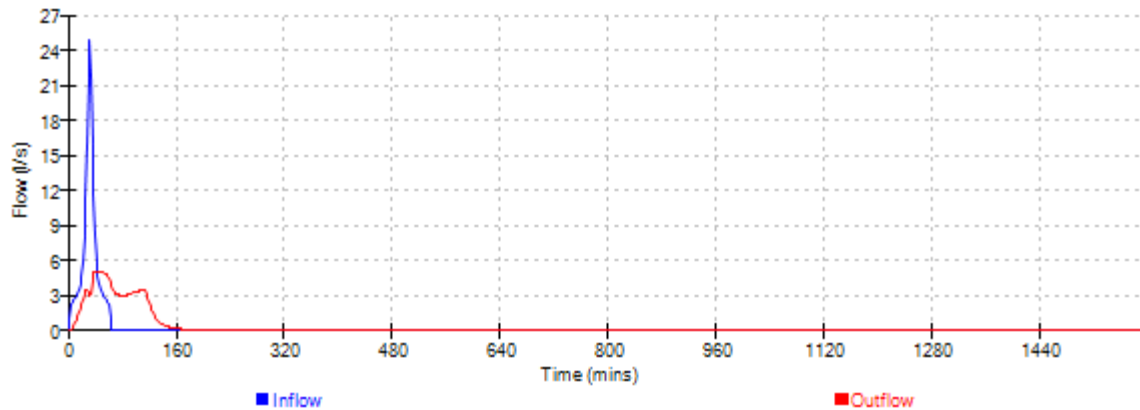
Easy Flood Risk		Page 7
55 Shepherds Lane Dartford DA1 2NL		
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Event: 30 min Summer



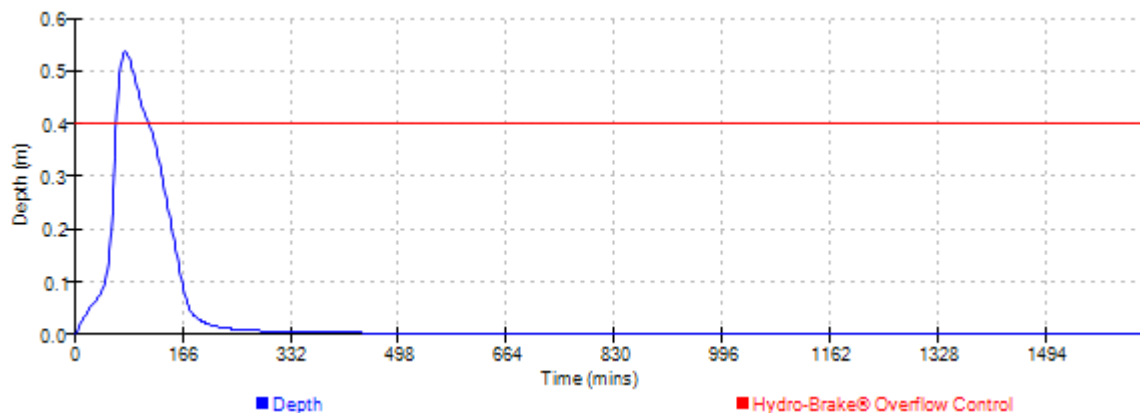
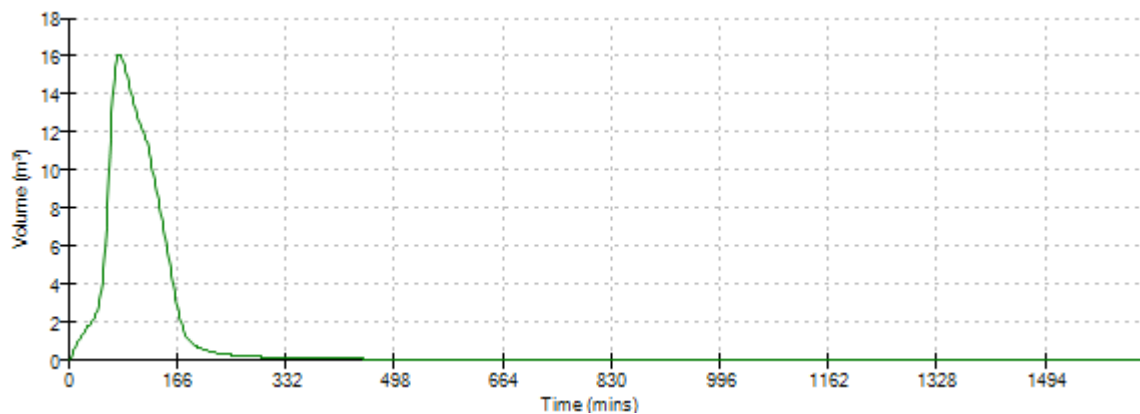
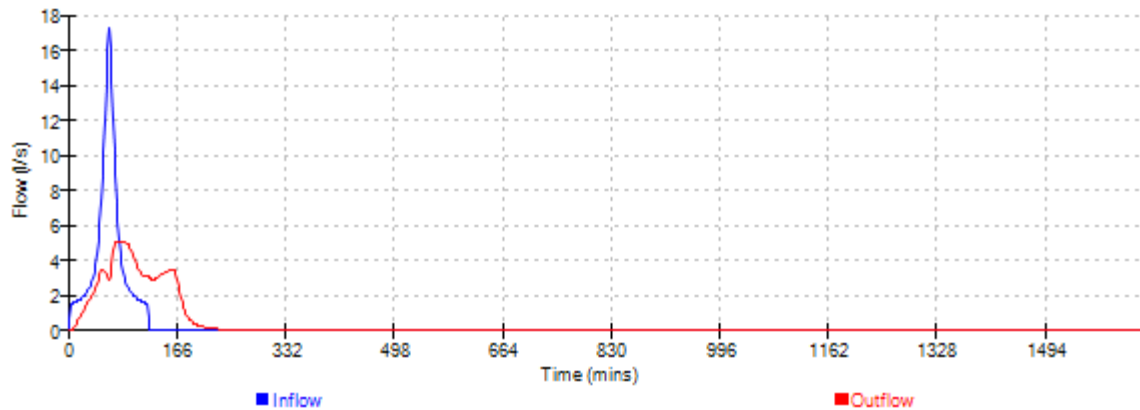
Easy Flood Risk		Page 8
55 Shepherds Lane Dartford DA1 2NL		
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Event: 60 min Summer



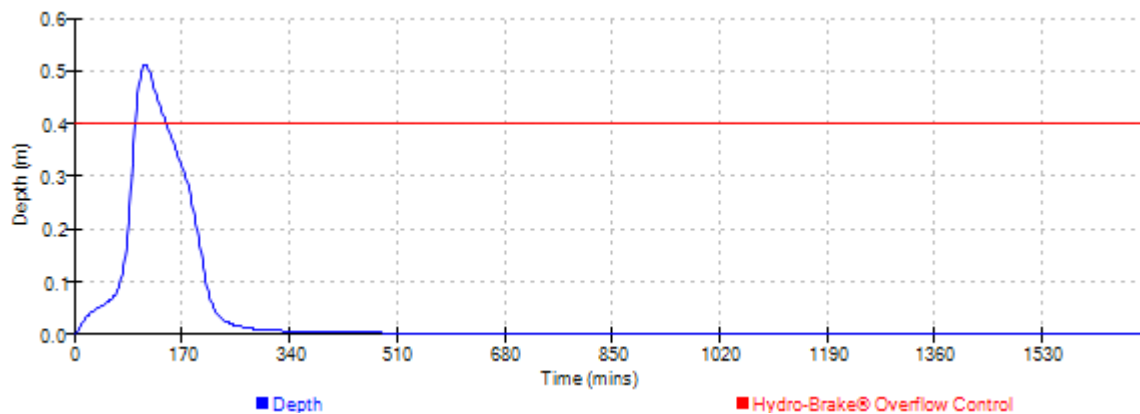
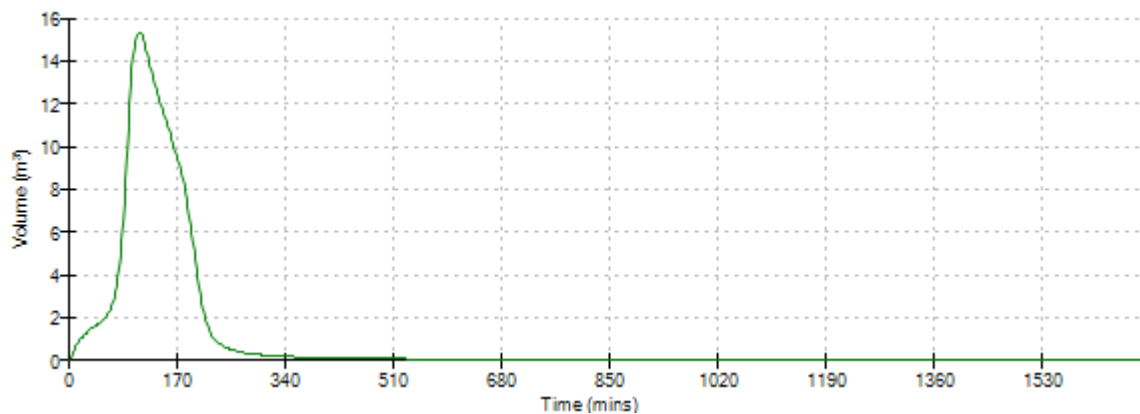
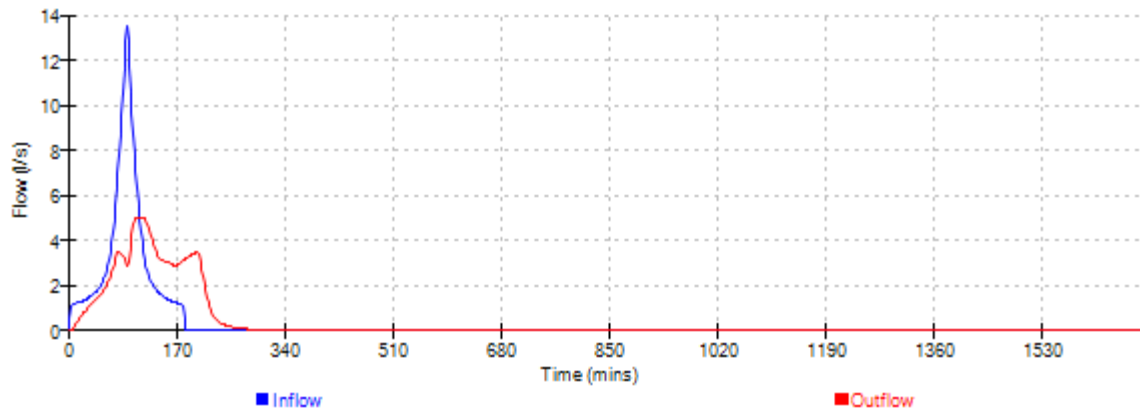
Easy Flood Risk		Page 9
55 Shepherds Lane Dartford DA1 2NL		
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Event: 120 min Summer



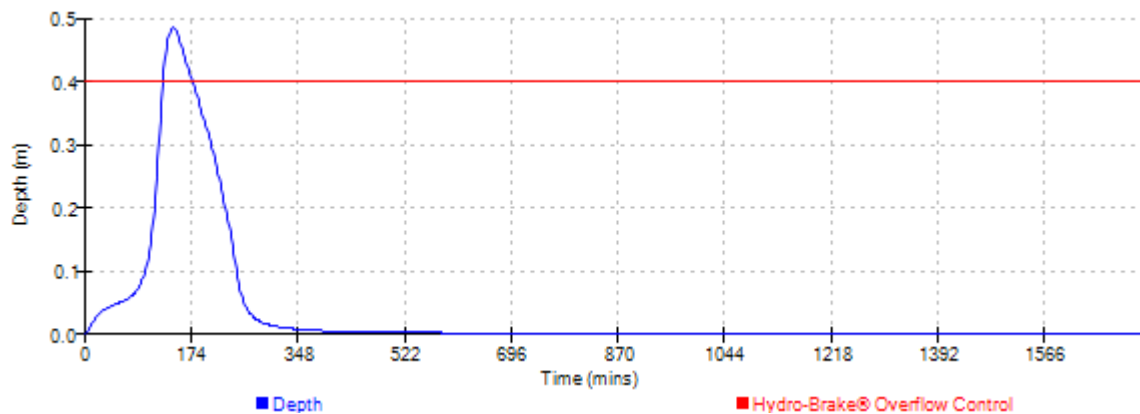
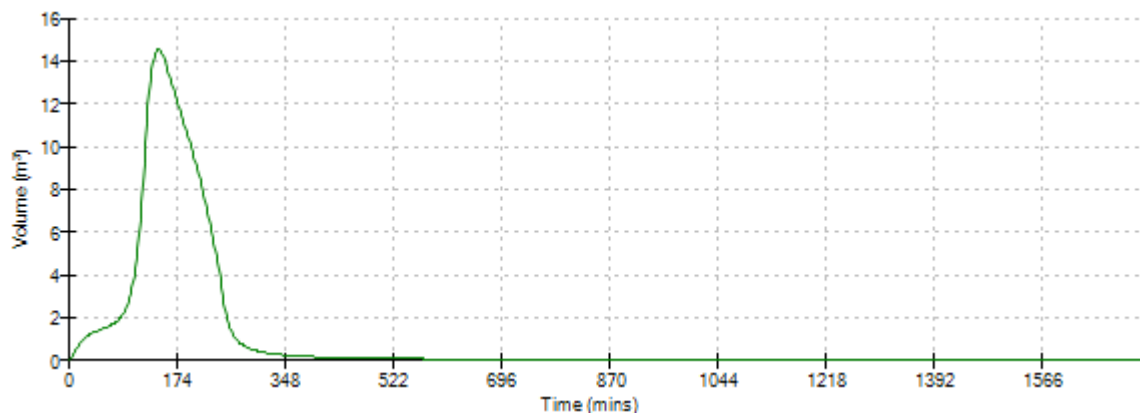
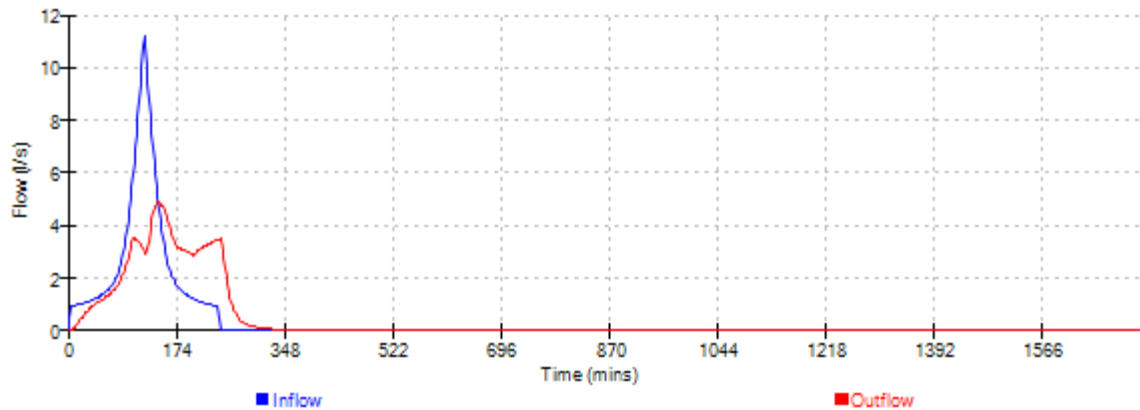
Easy Flood Risk		Page 10
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
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Event: 180 min Summer



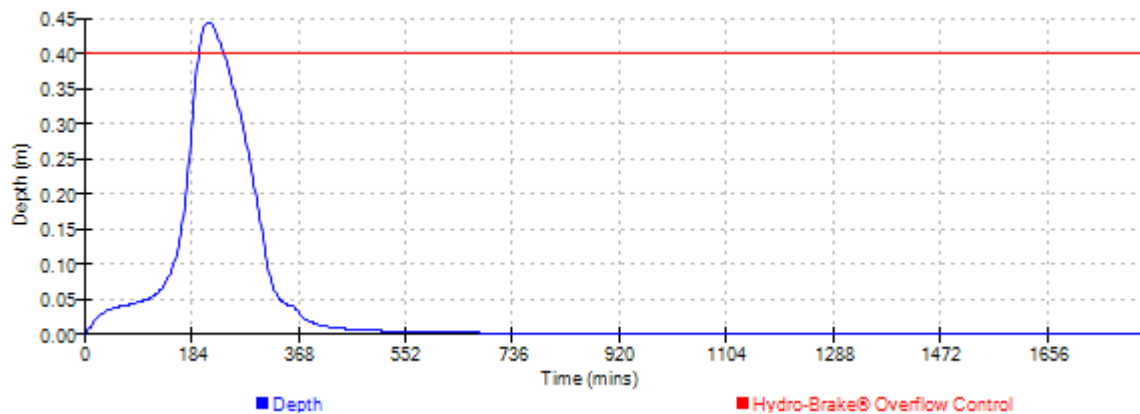
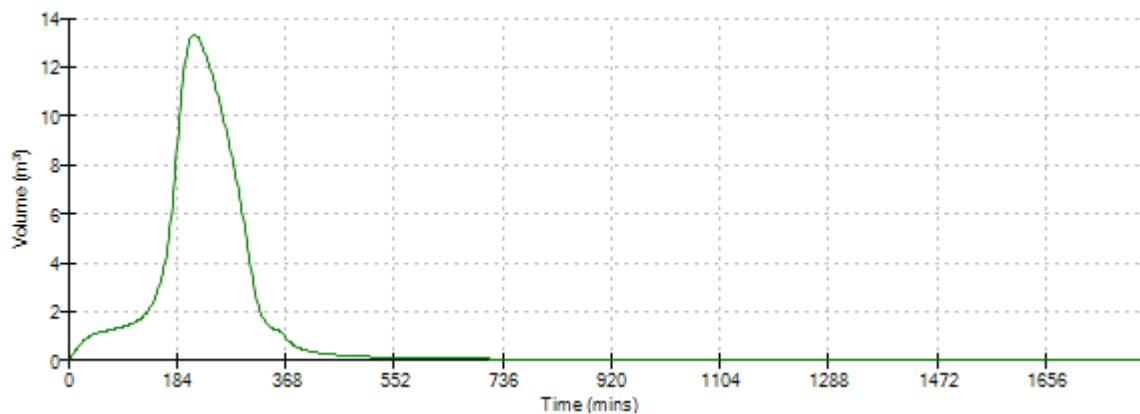
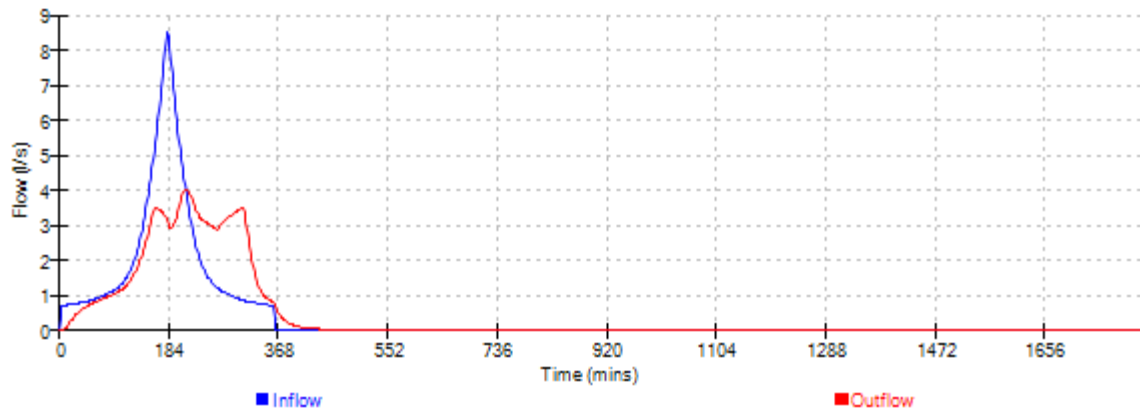
Easy Flood Risk		Page 11
55 Shepherds Lane Dartford DA1 2NL		
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Event: 240 min Summer



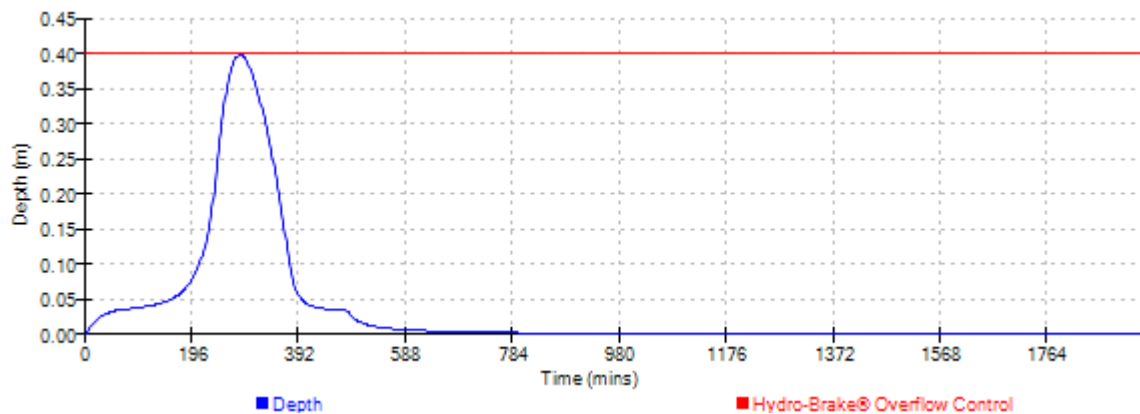
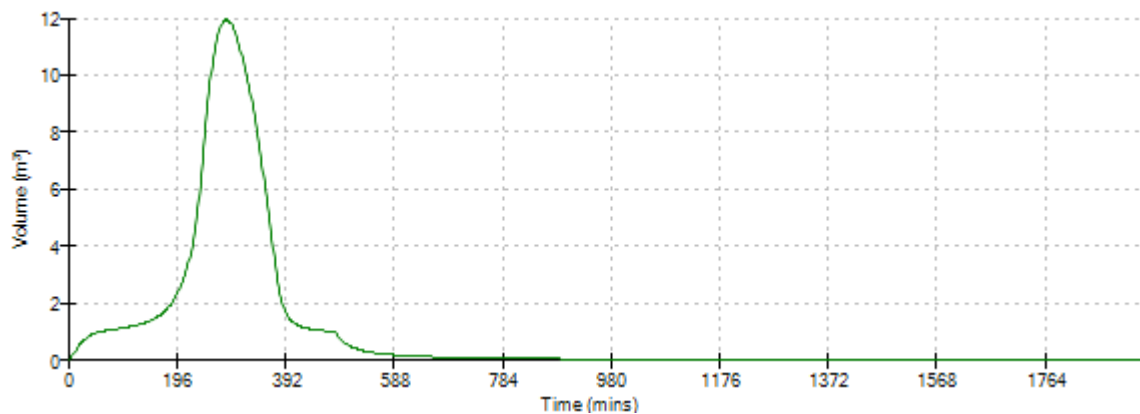
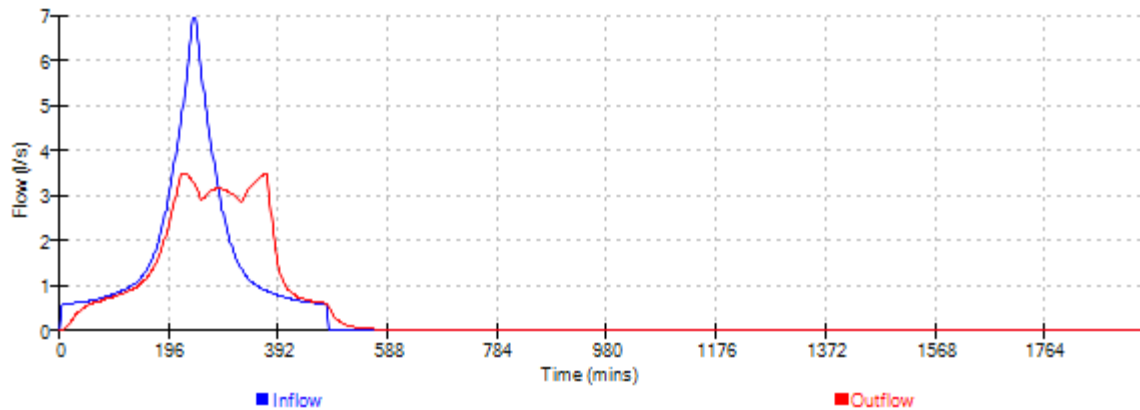
Easy Flood Risk		Page 12
55 Shepherds Lane Dartford DA1 2NL		
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Event: 360 min Summer



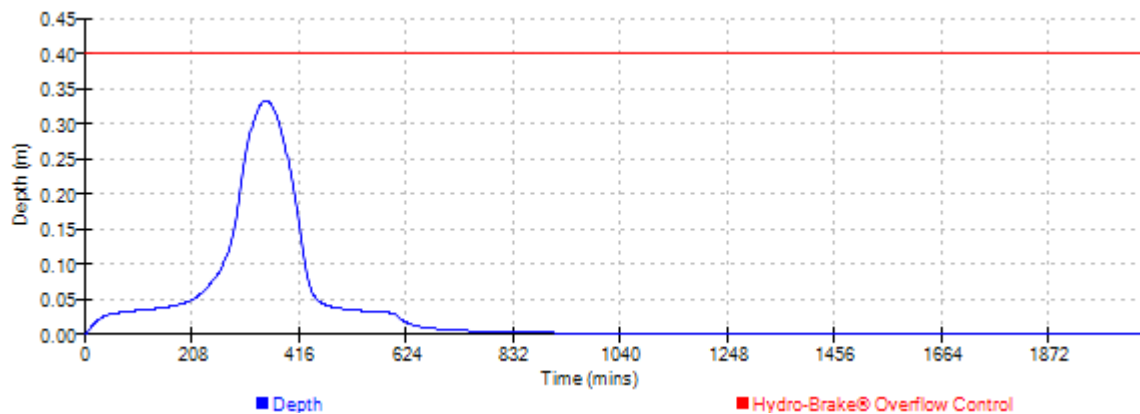
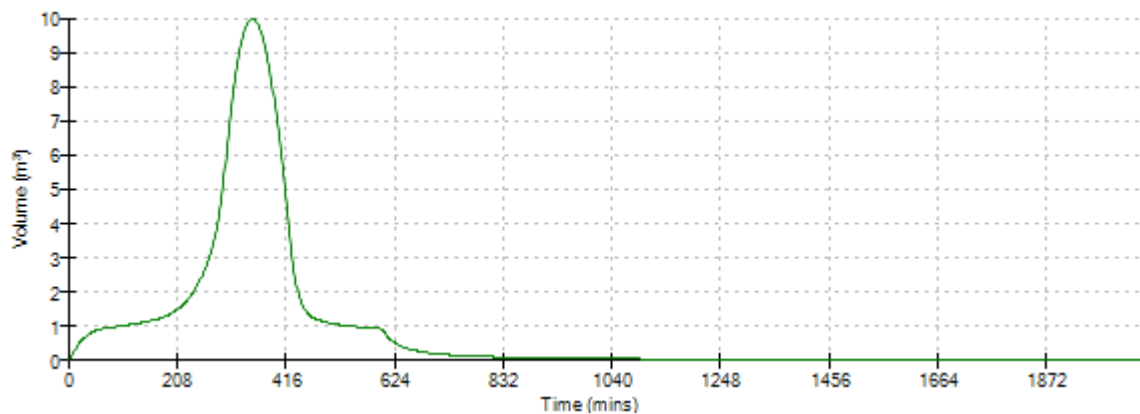
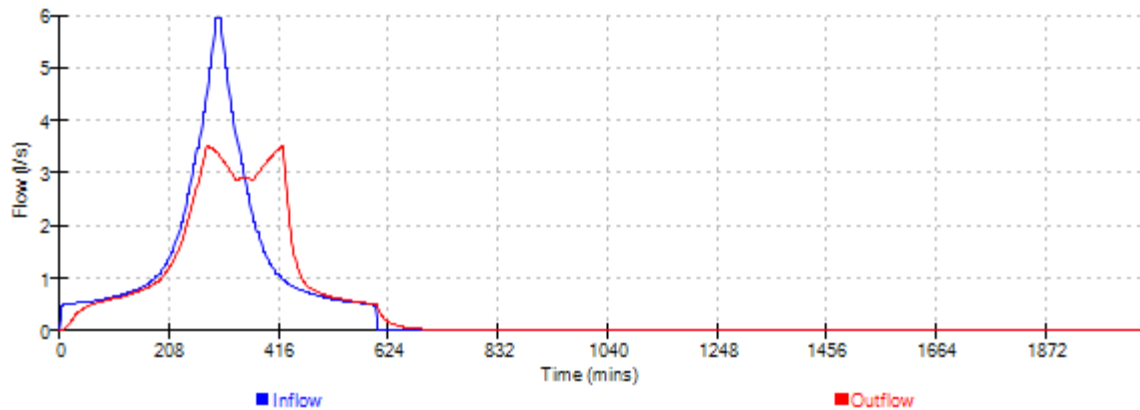
Easy Flood Risk		Page 13
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
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Event: 480 min Summer



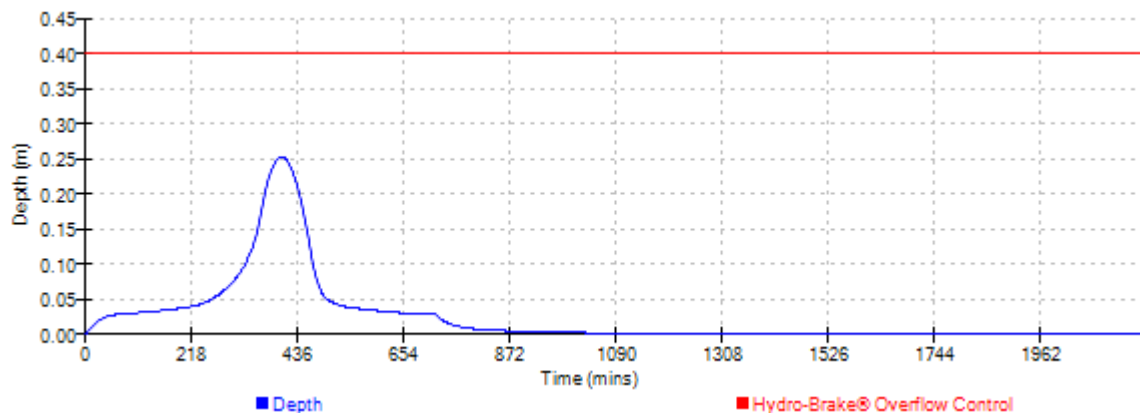
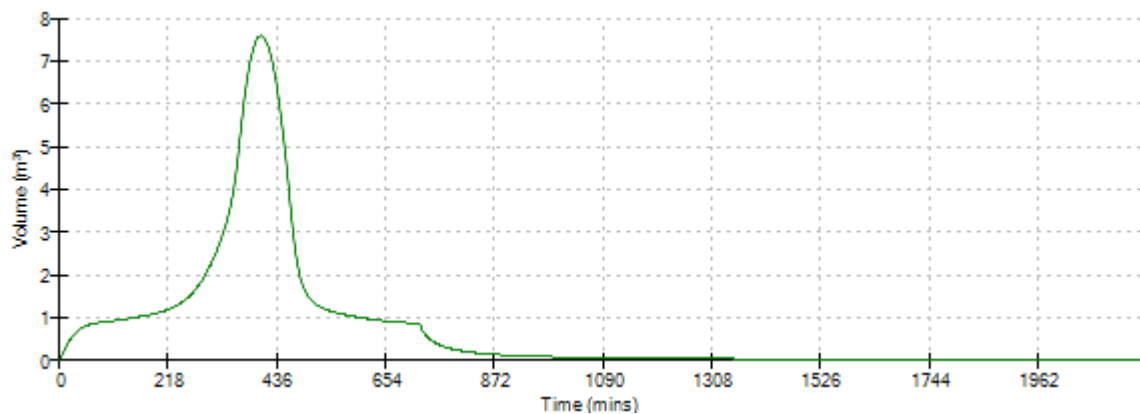
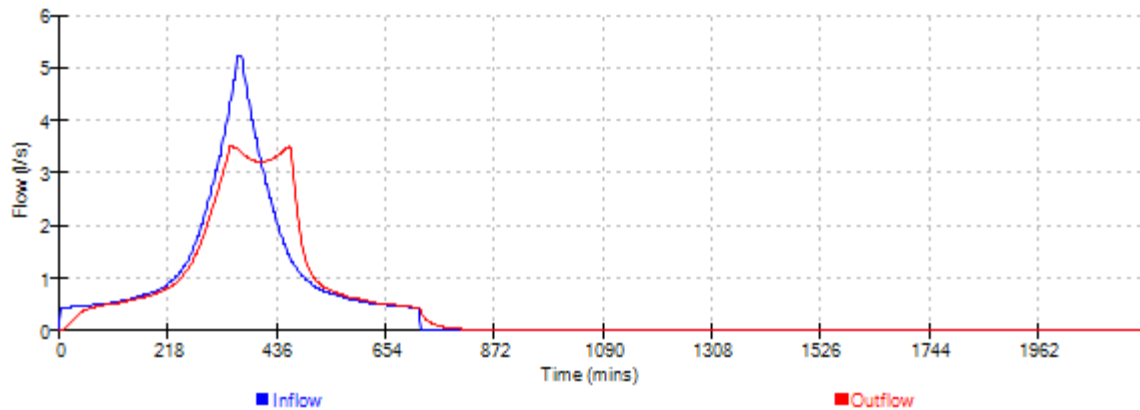
Easy Flood Risk		Page 14
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
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Event: 600 min Summer



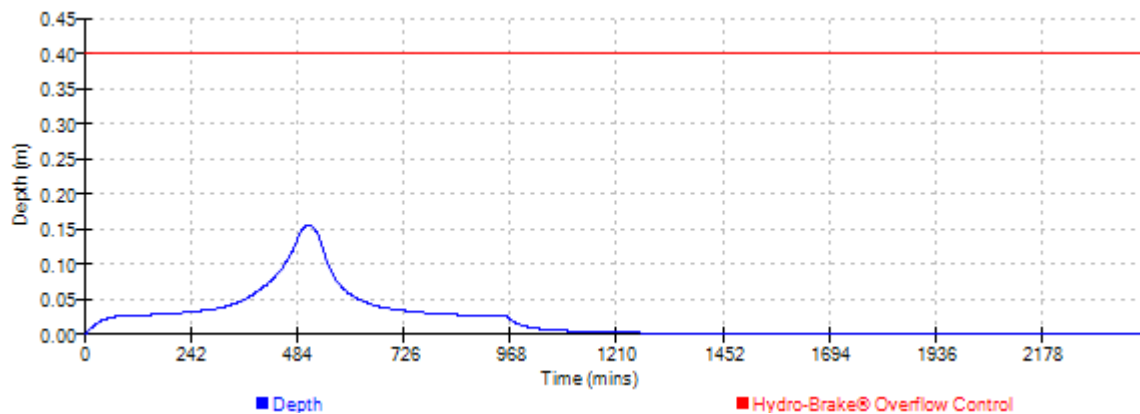
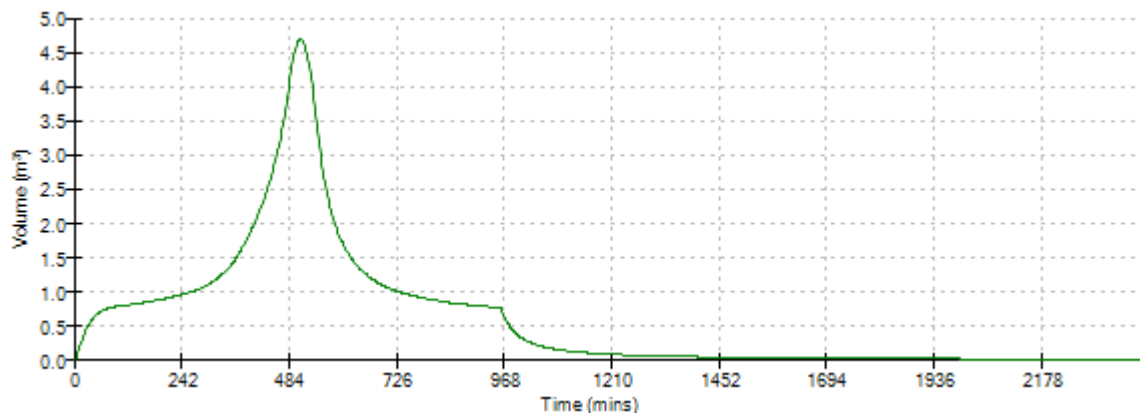
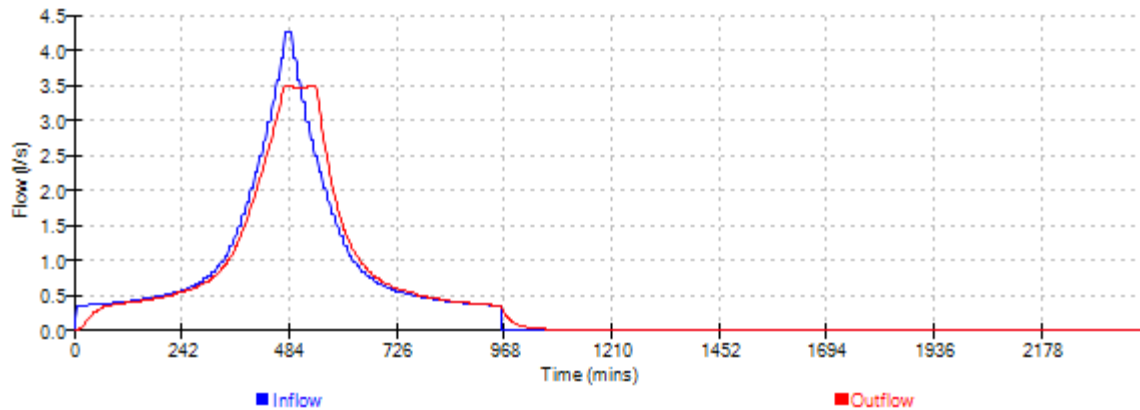
Easy Flood Risk		Page 15
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
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Event: 720 min Summer



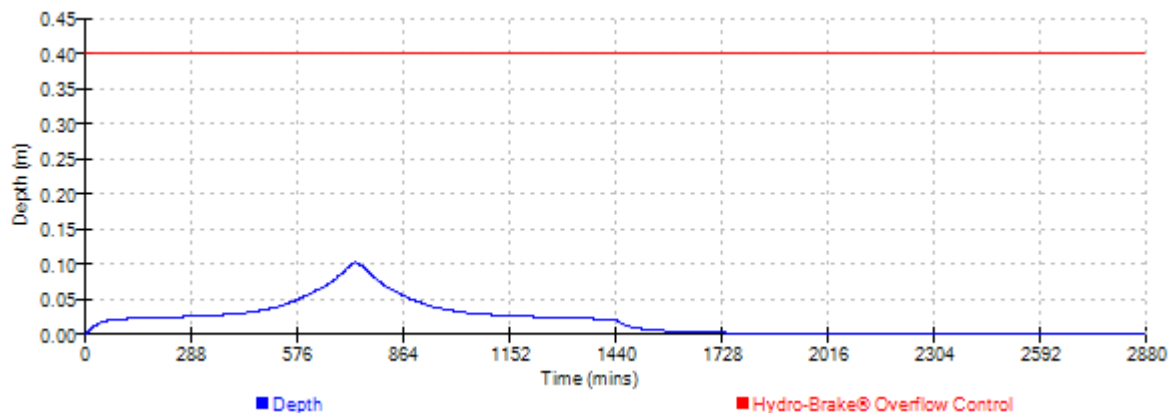
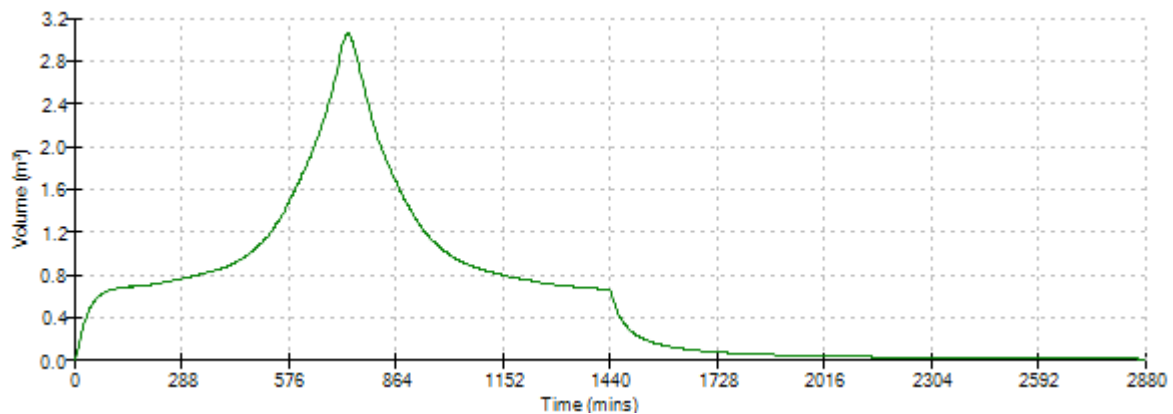
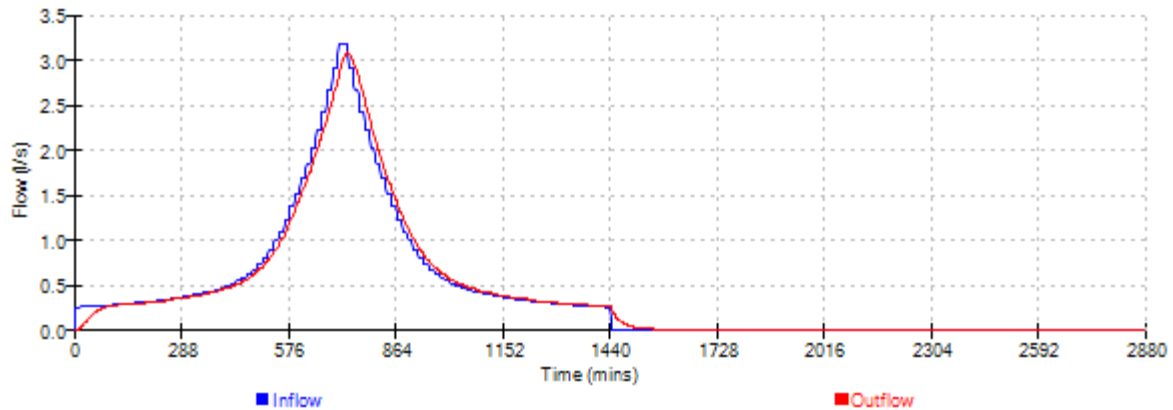
Easy Flood Risk		Page 16
55 Shepherds Lane Dartford DA1 2NL		
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Event: 960 min Summer



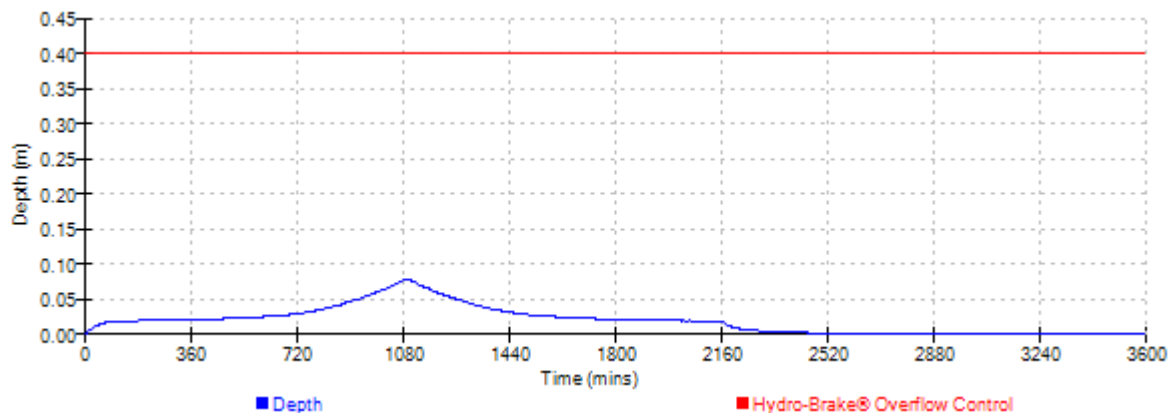
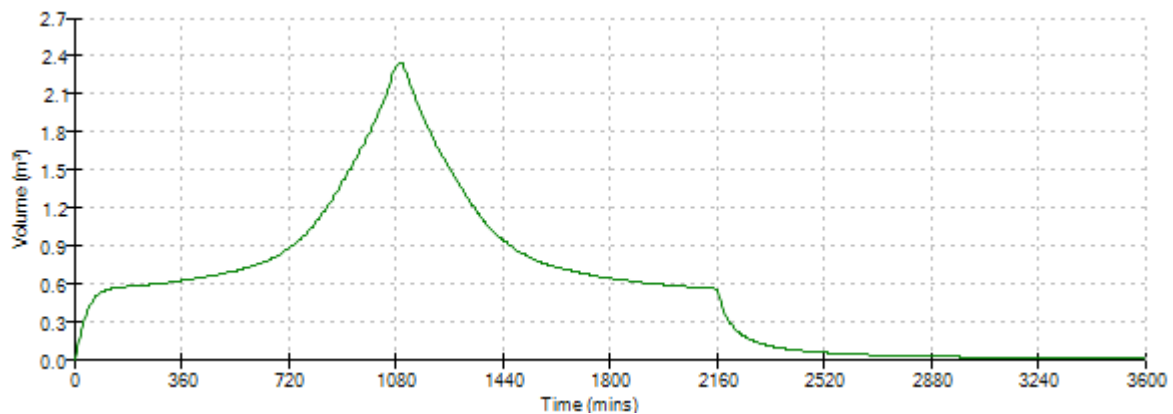
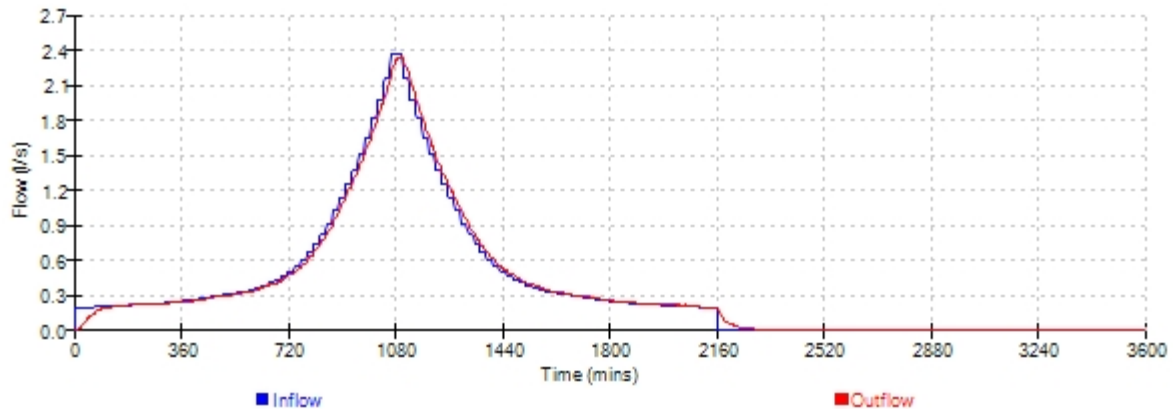
Easy Flood Risk		Page 17
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Summer



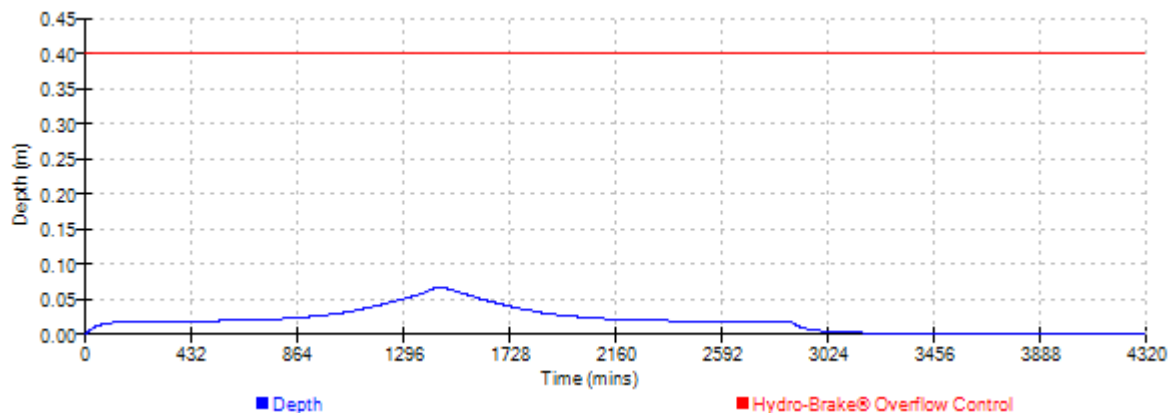
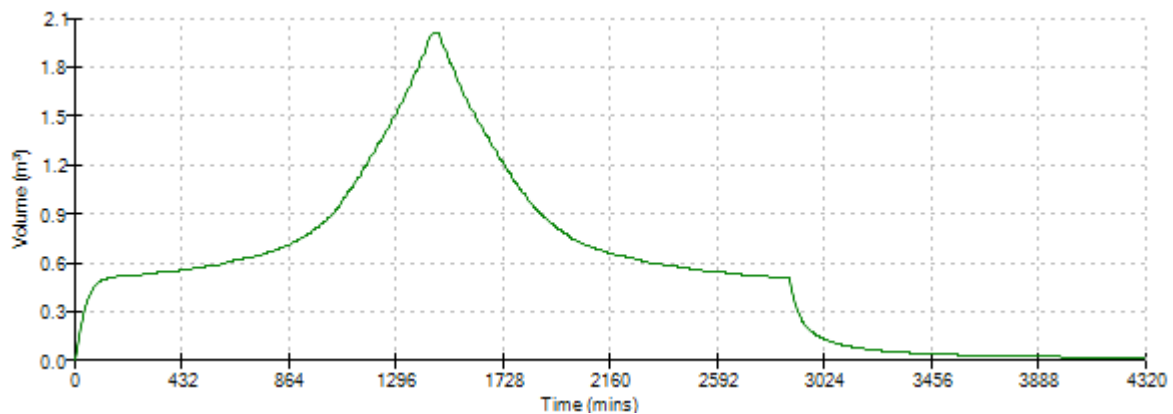
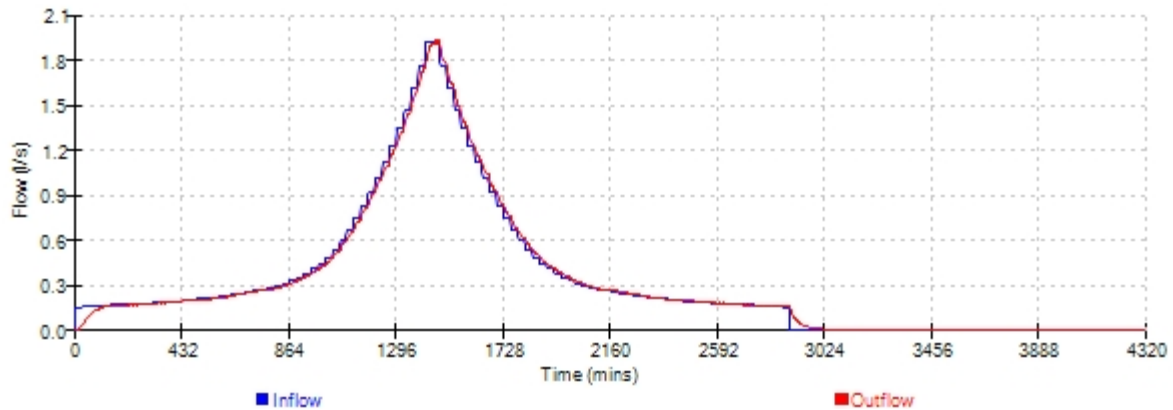
Easy Flood Risk		Page 18
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Summer



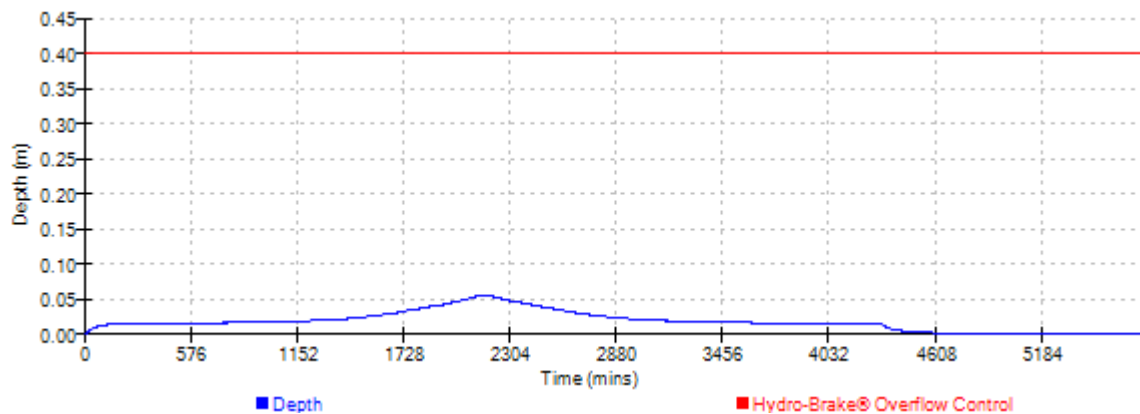
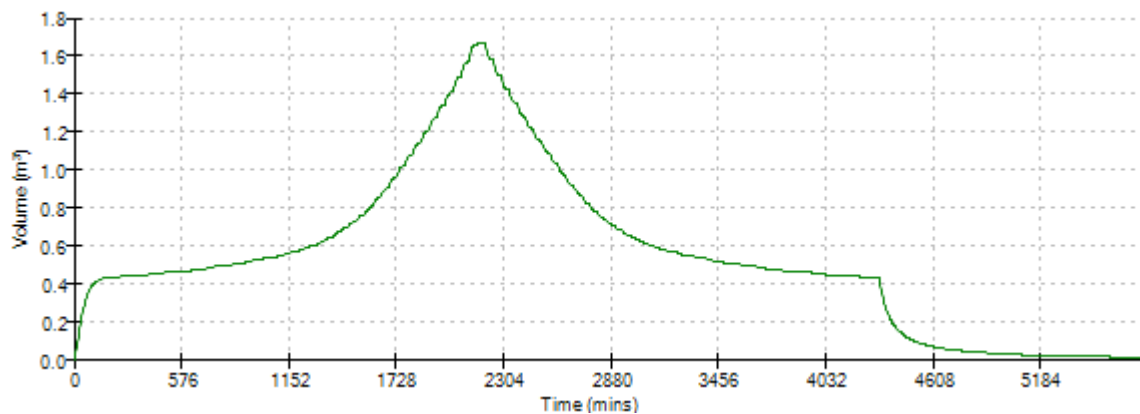
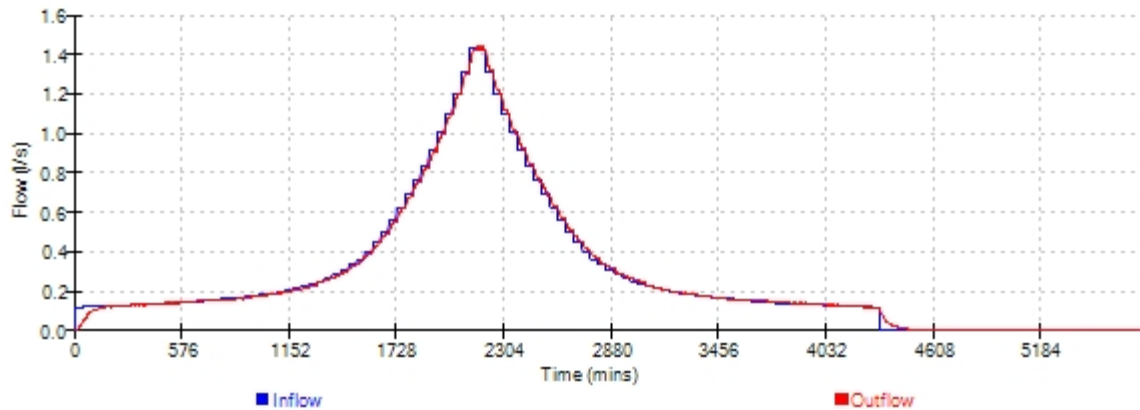
Easy Flood Risk		Page 19
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Summer



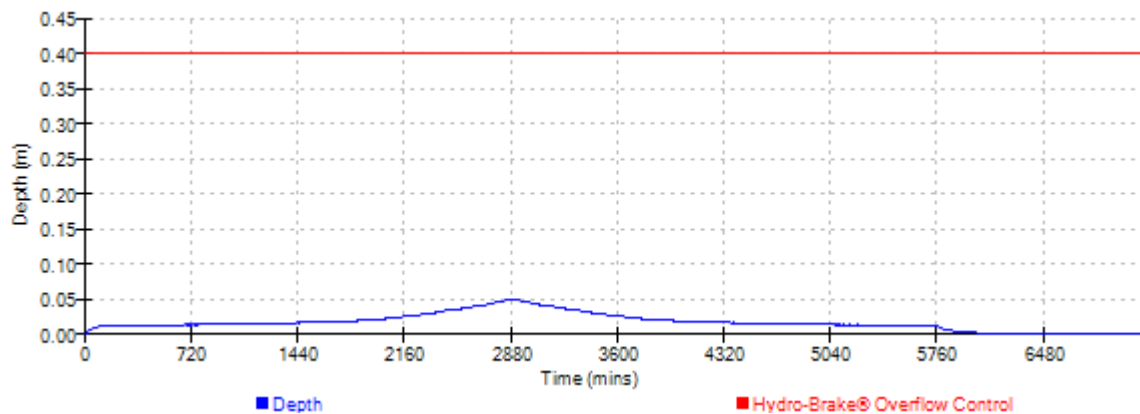
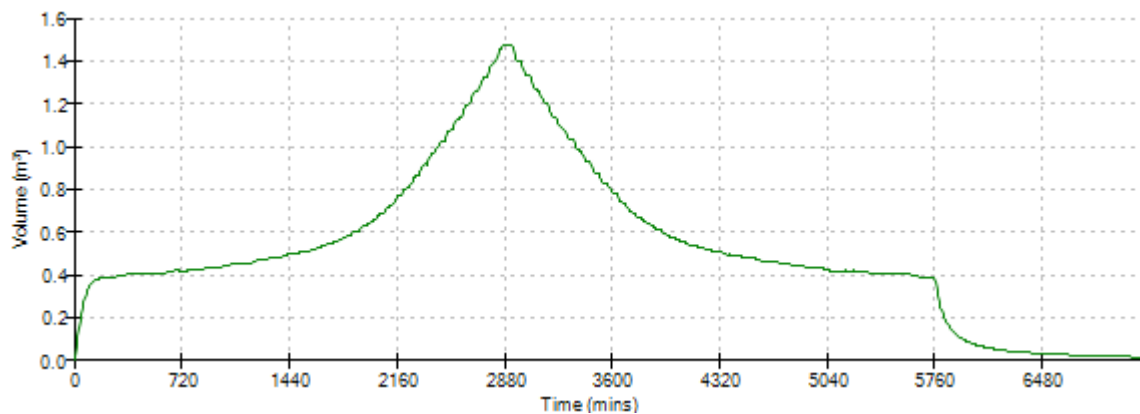
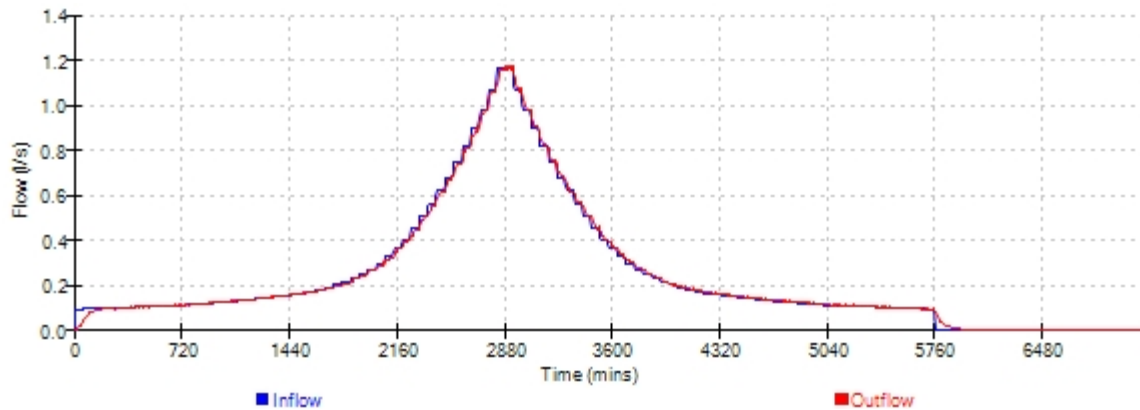
Easy Flood Risk		Page 20
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Summer



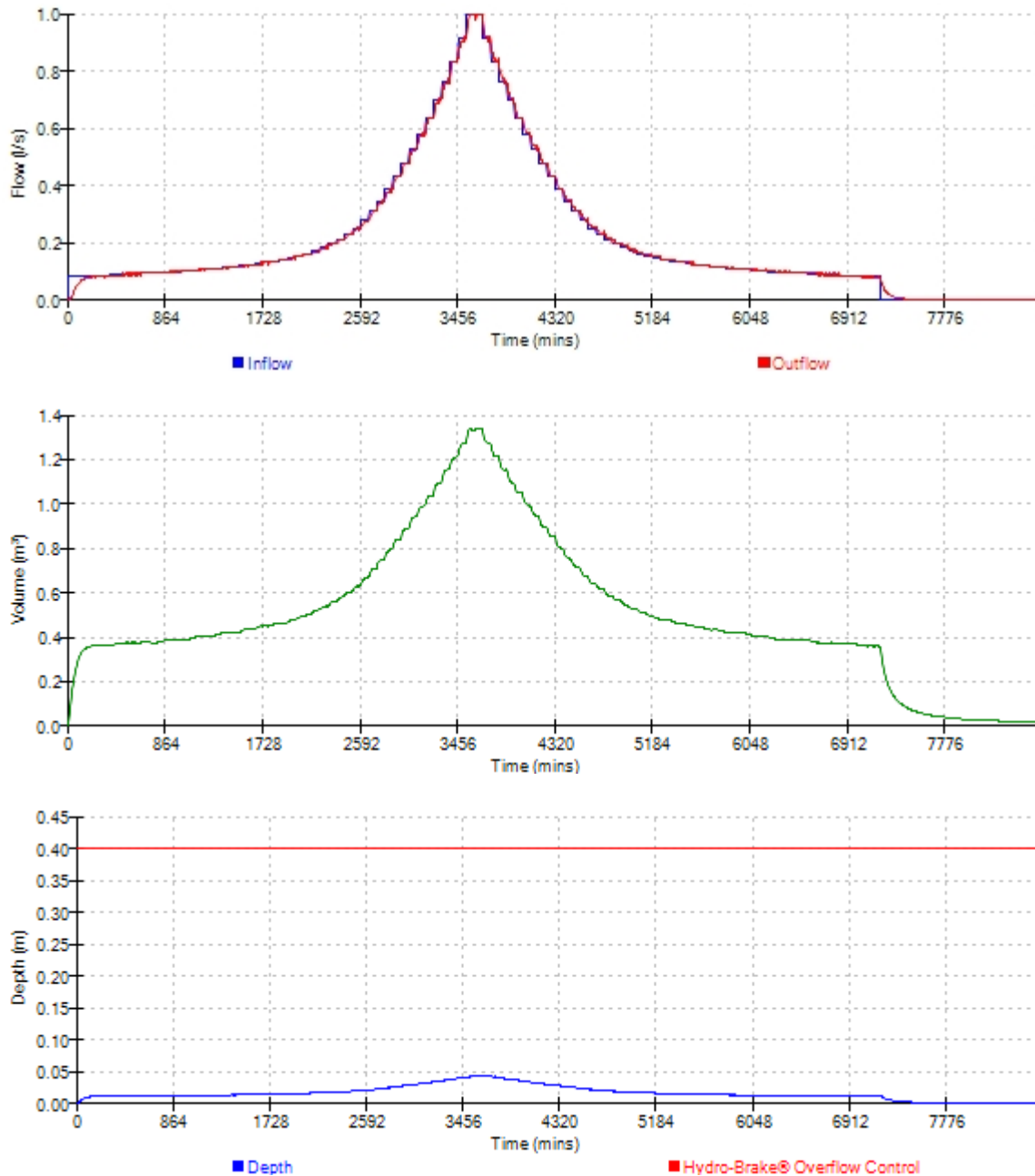
Easy Flood Risk		Page 21
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Summer



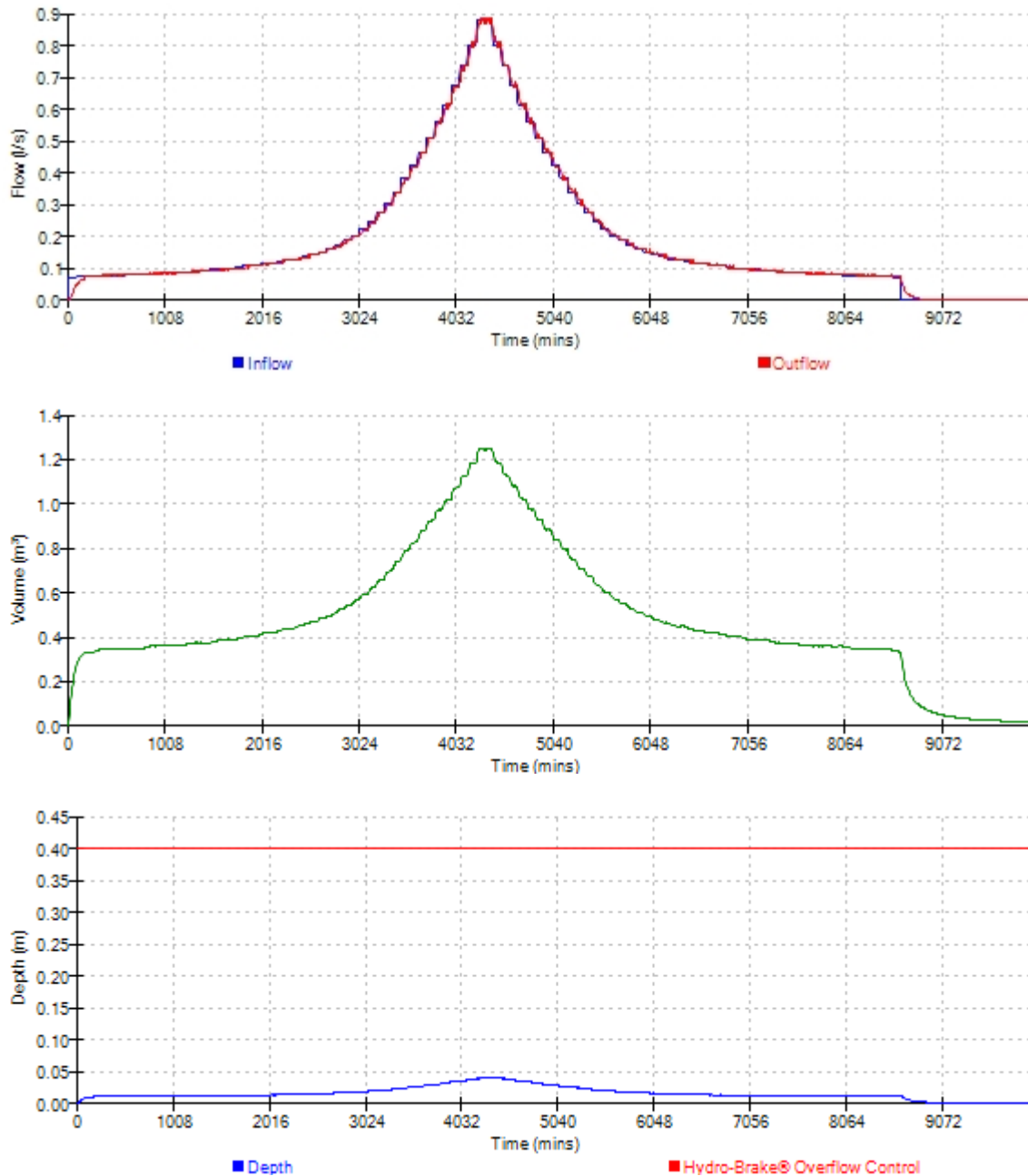
Easy Flood Risk		Page 22
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Summer



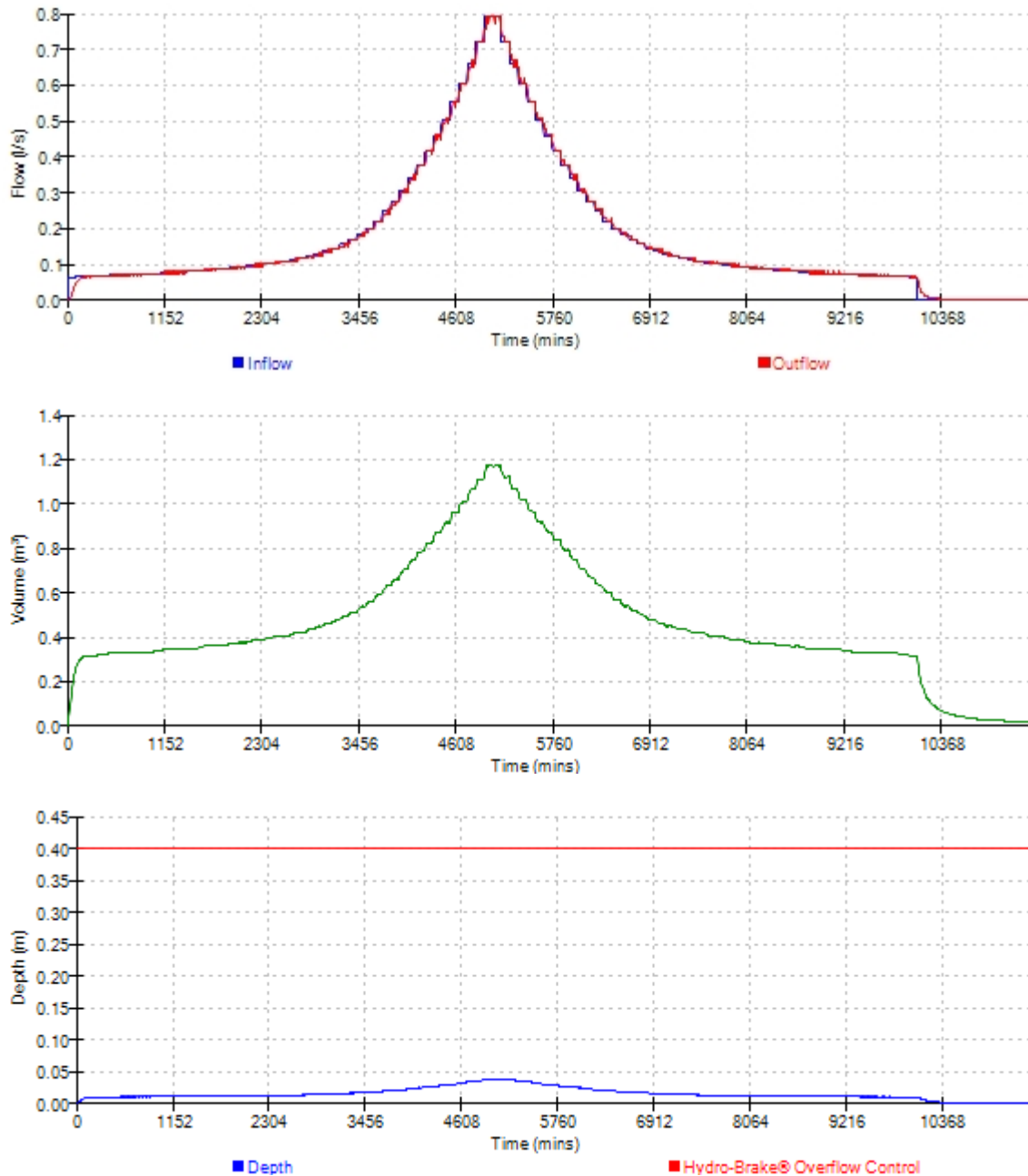
Easy Flood Risk		Page 23
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 8640 min Summer



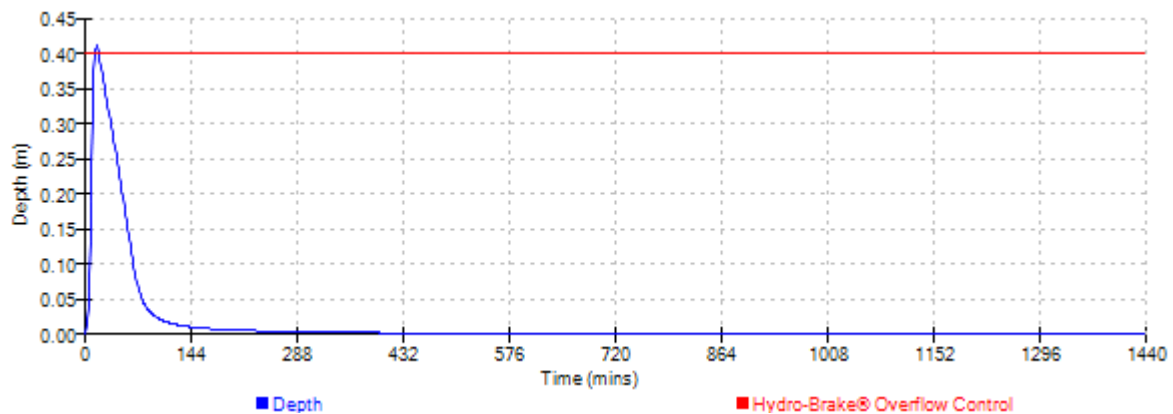
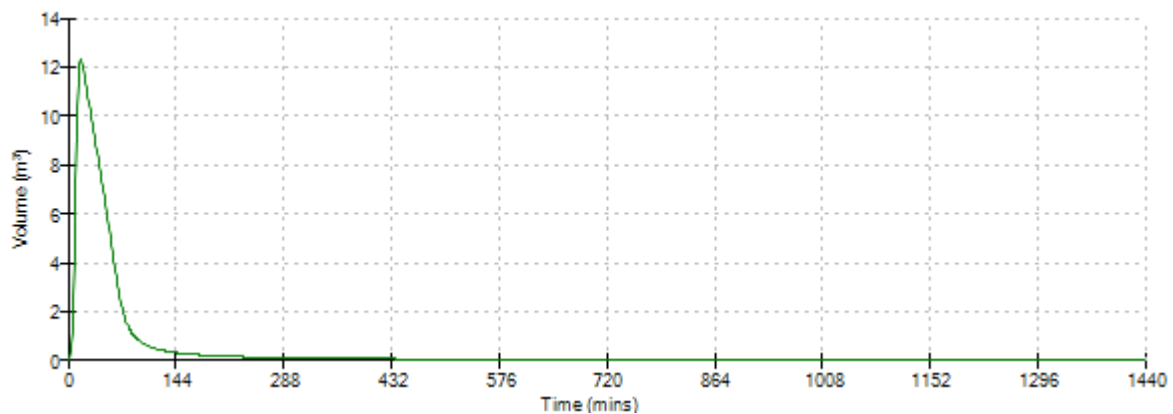
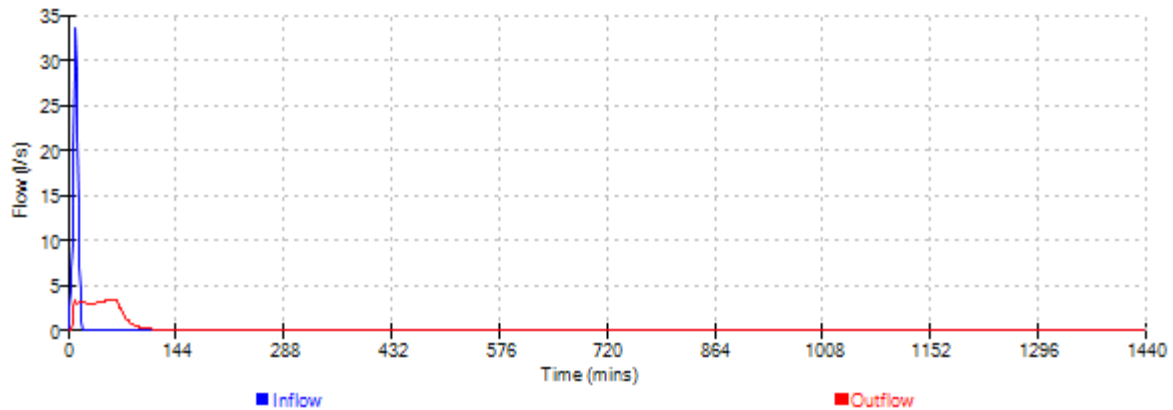
Easy Flood Risk		Page 24
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Summer



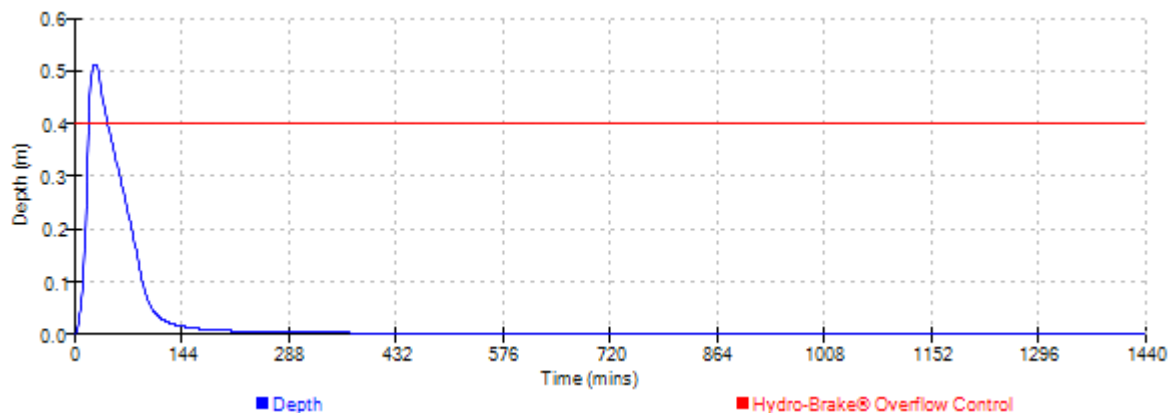
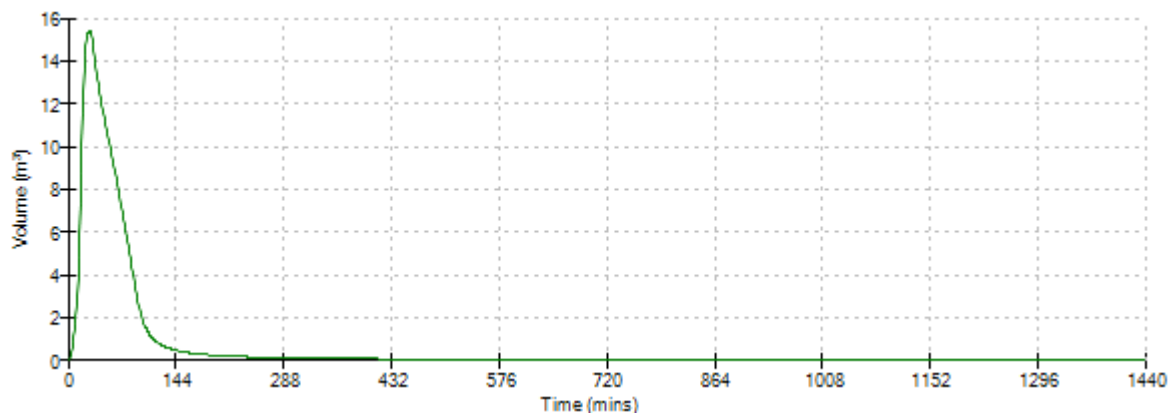
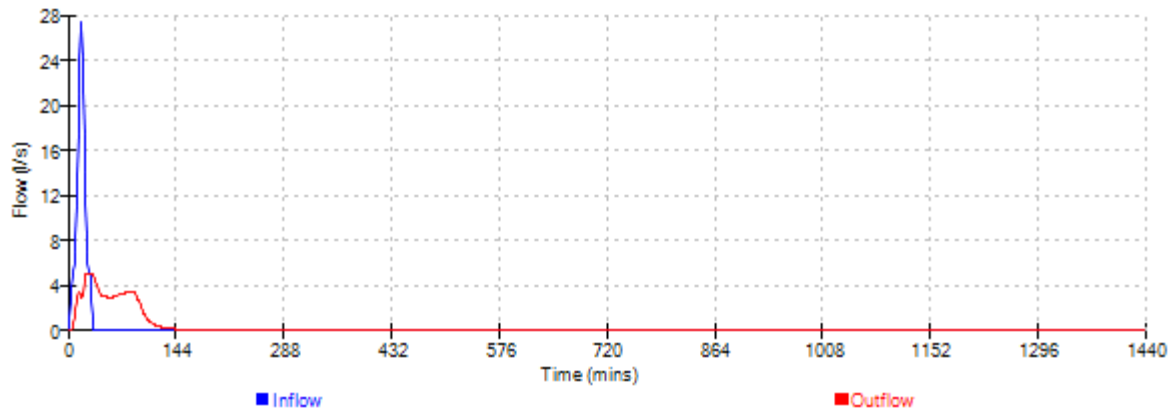
Easy Flood Risk		Page 25
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 15 min Winter



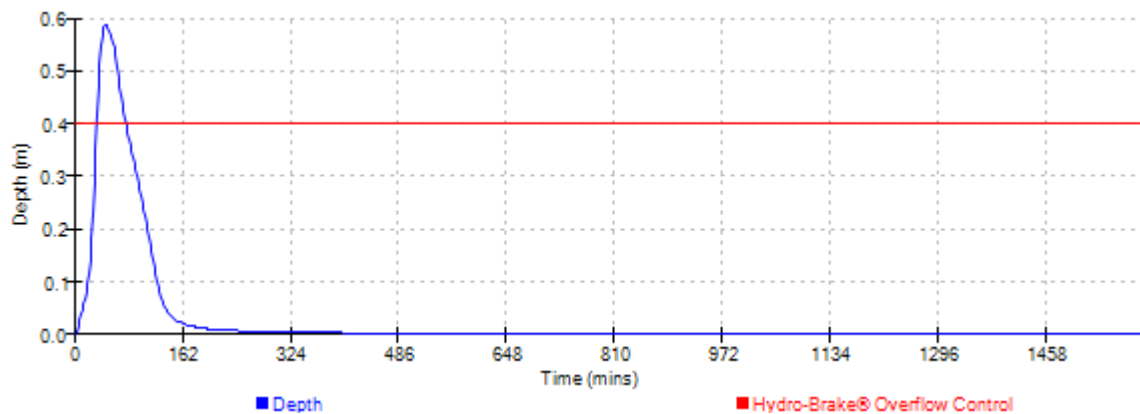
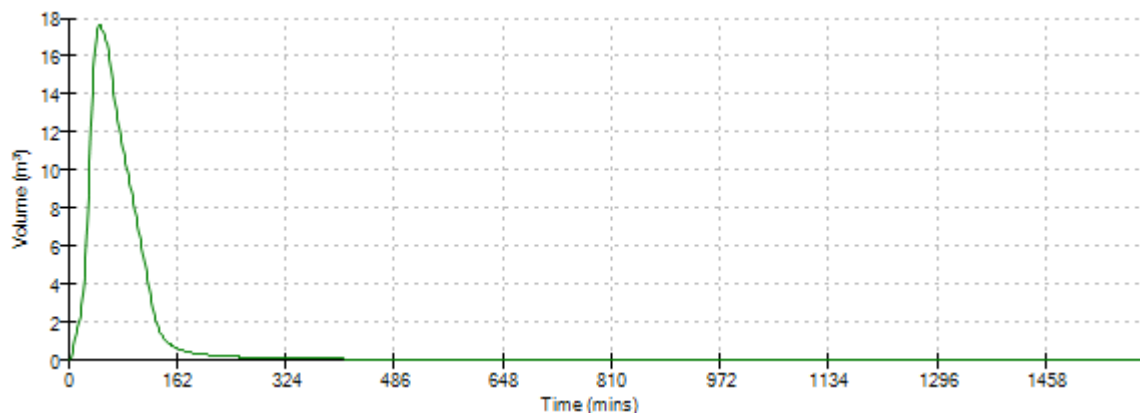
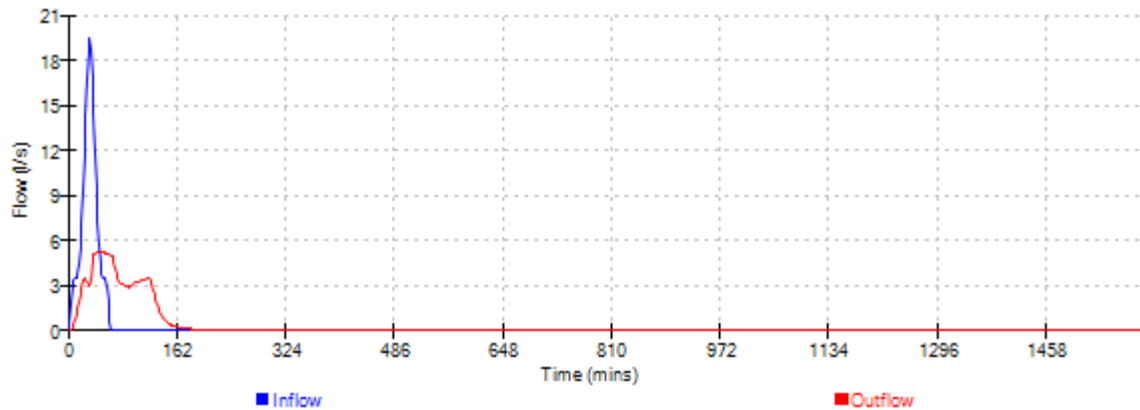
Easy Flood Risk		Page 26
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 30 min Winter



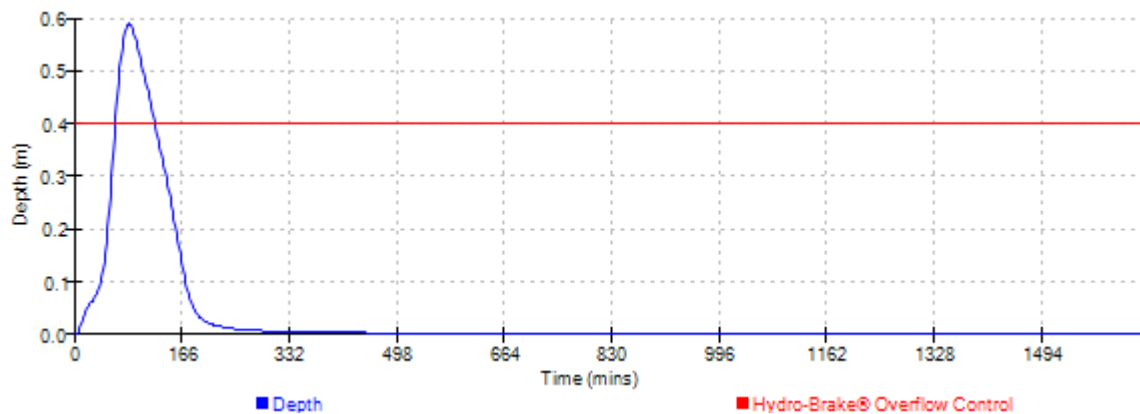
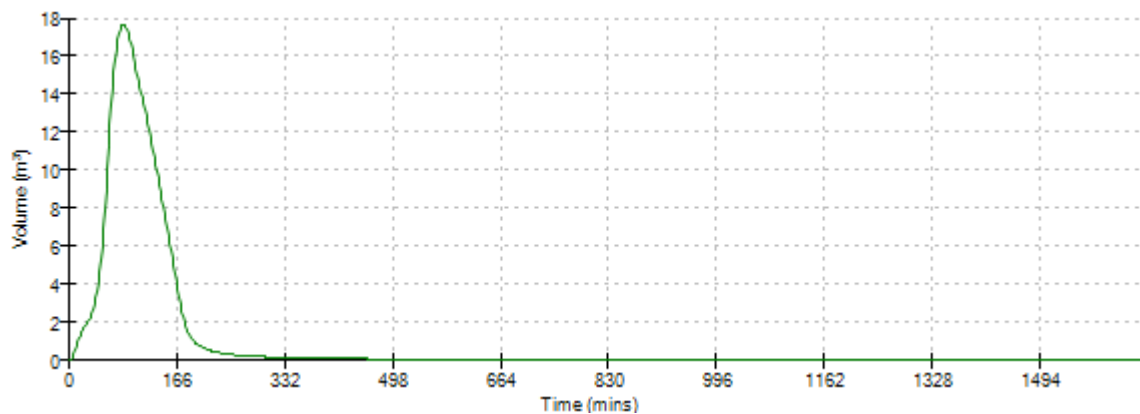
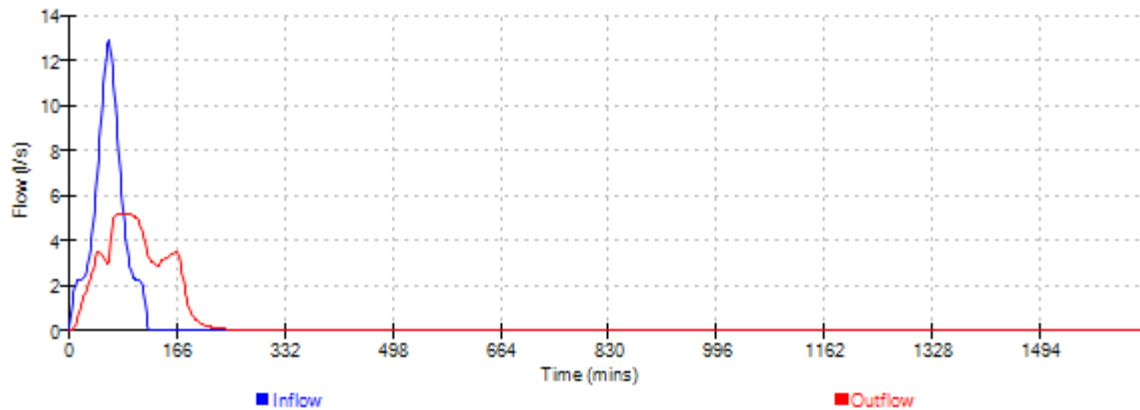
Easy Flood Risk		Page 27
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 60 min Winter



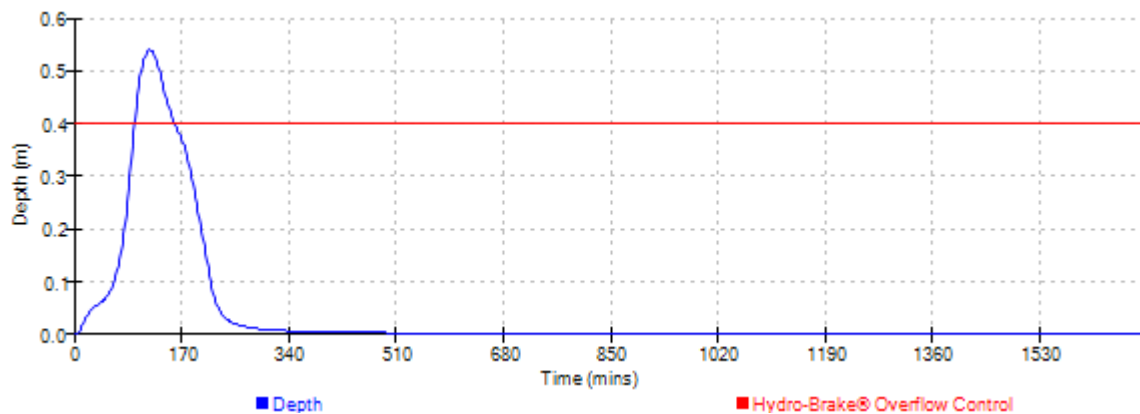
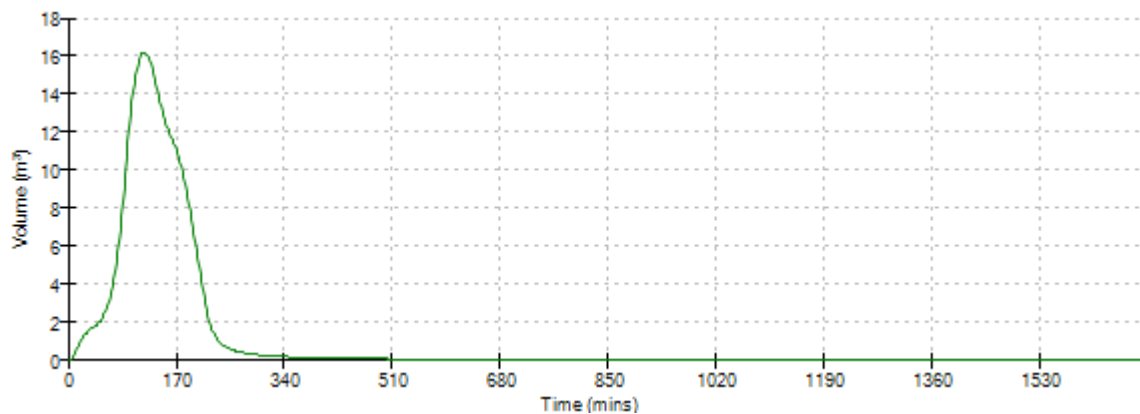
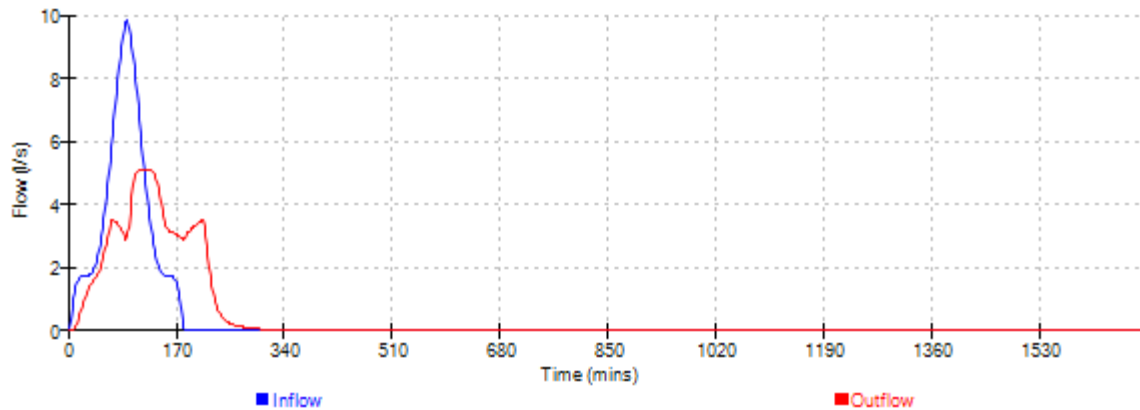
Easy Flood Risk		Page 28
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 120 min Winter



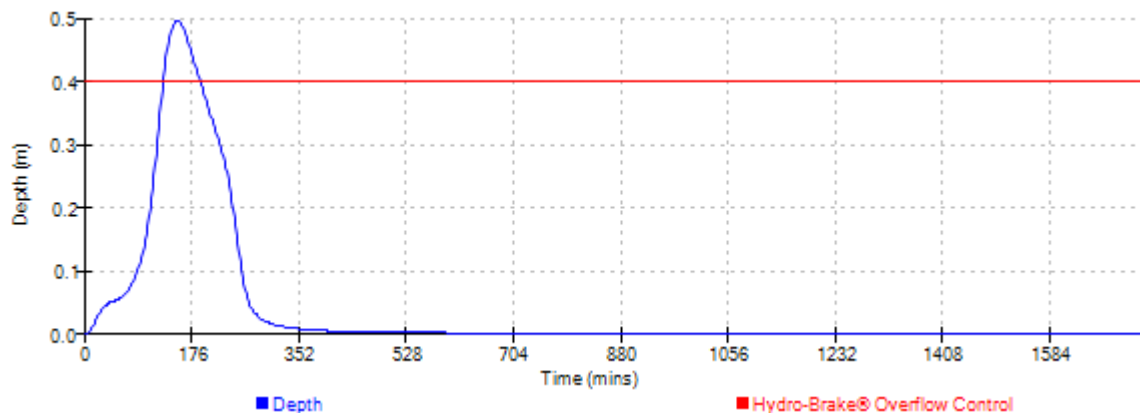
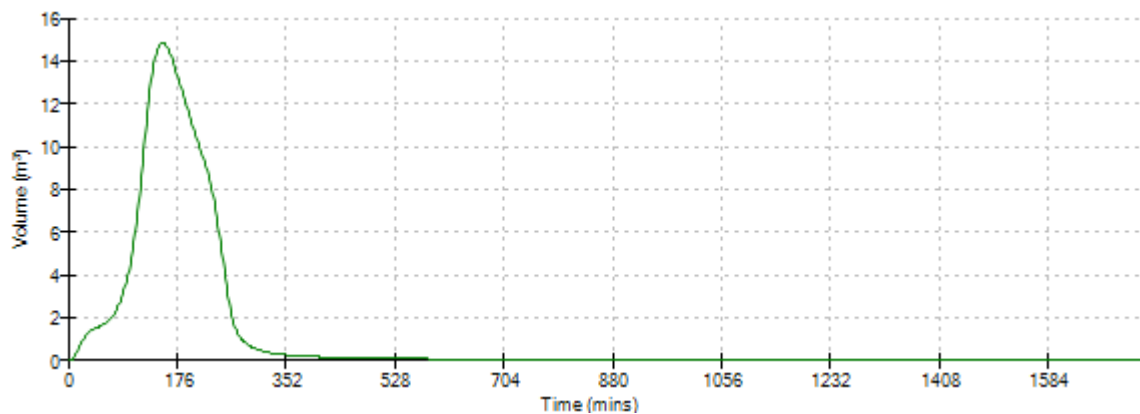
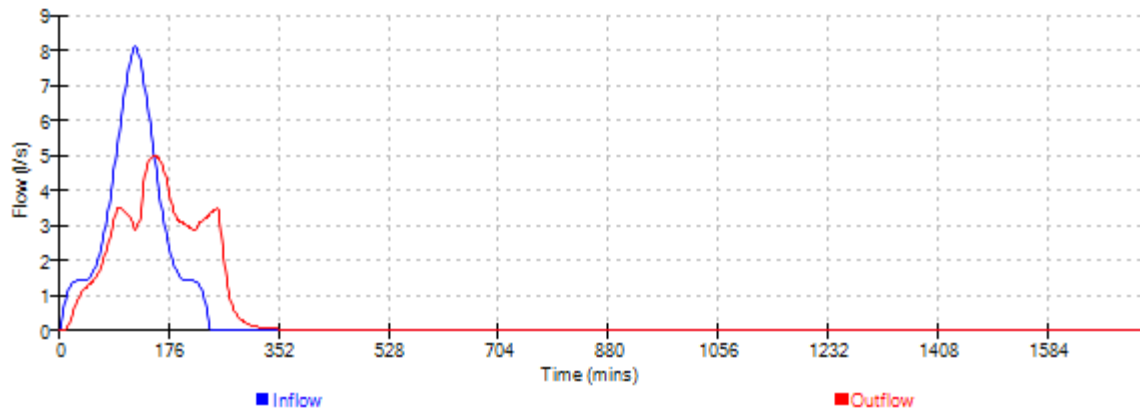
Easy Flood Risk		Page 29
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 180 min Winter



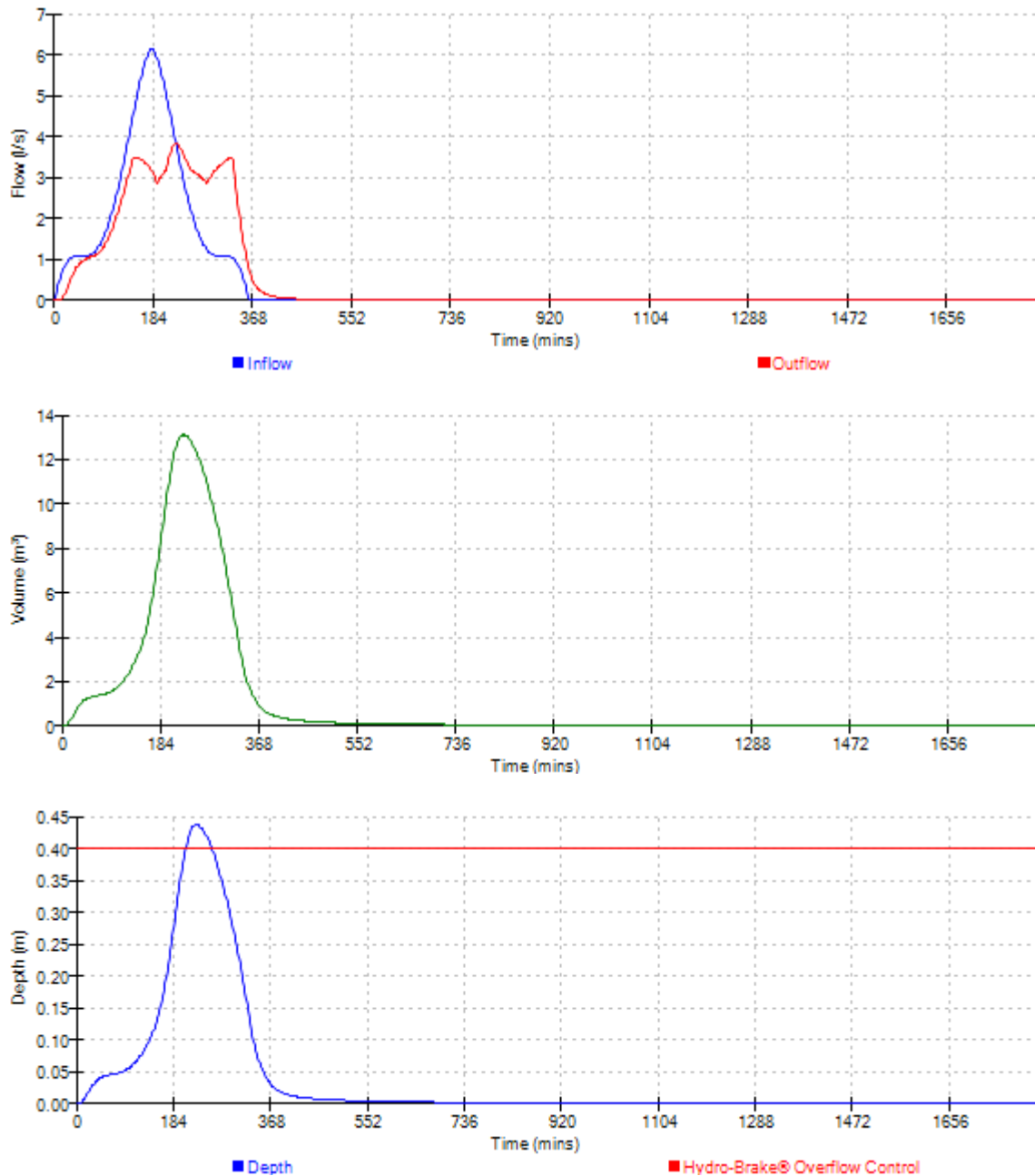
Easy Flood Risk		Page 30
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 240 min Winter



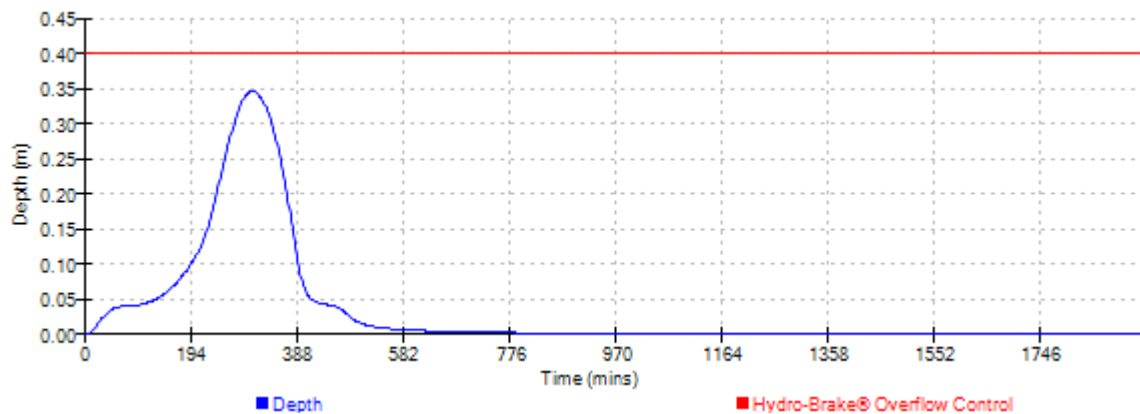
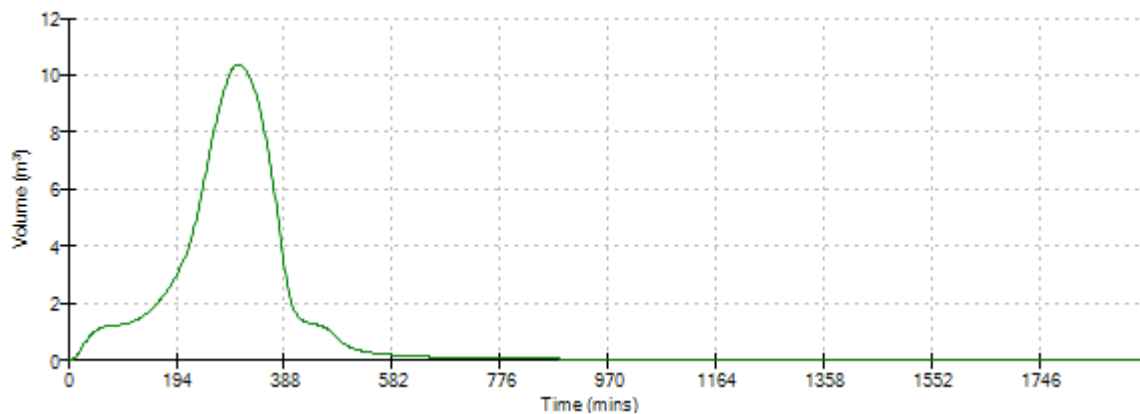
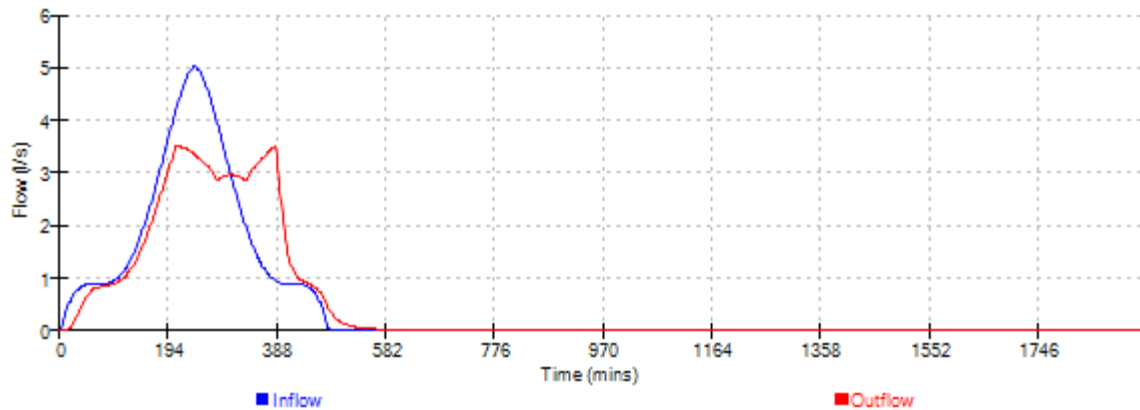
Easy Flood Risk		Page 31
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 360 min Winter



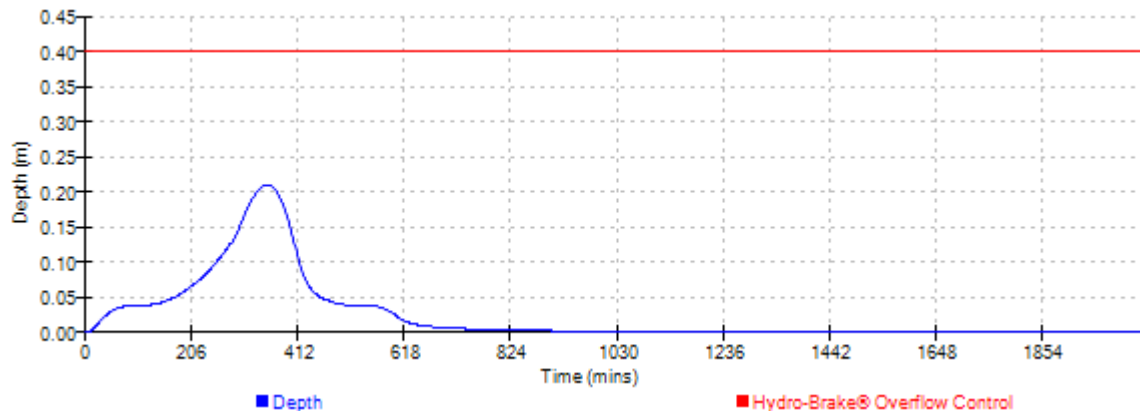
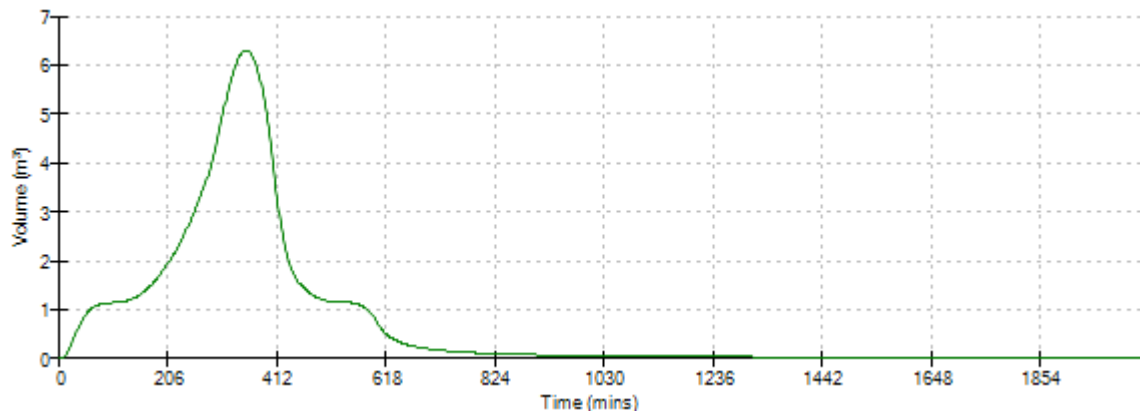
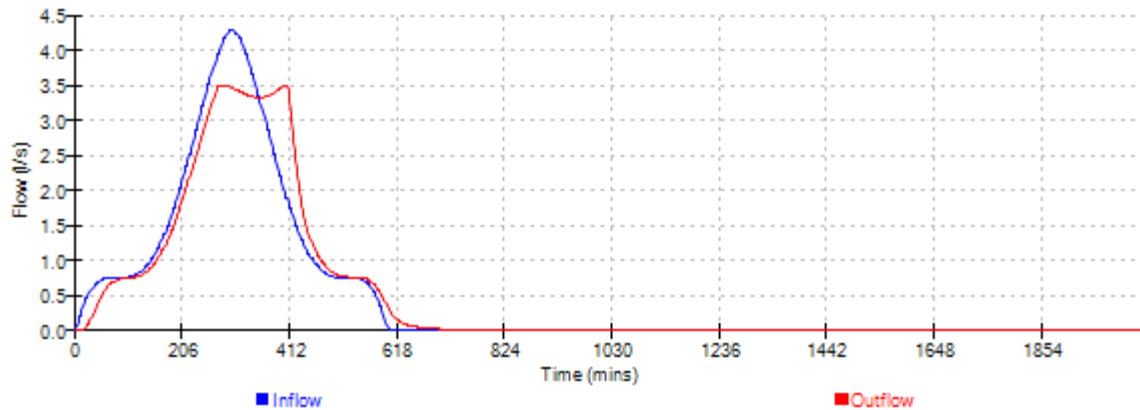
Easy Flood Risk		Page 32
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 480 min Winter



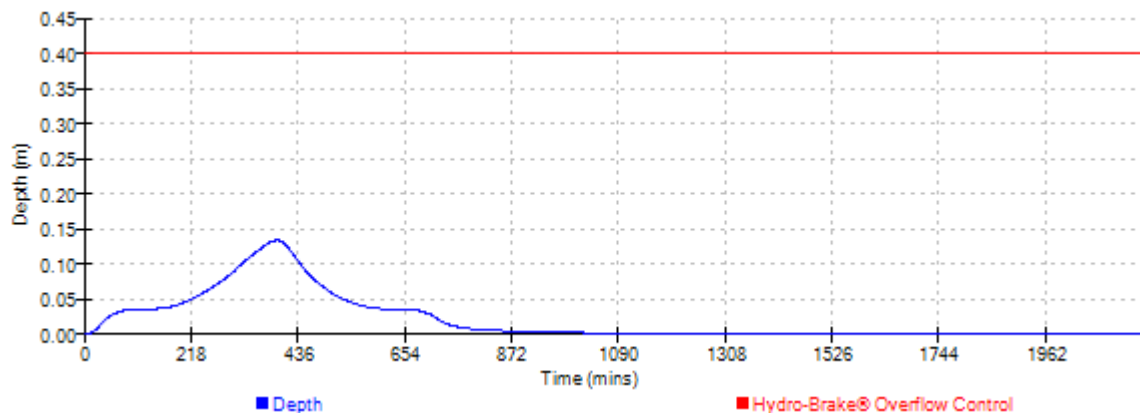
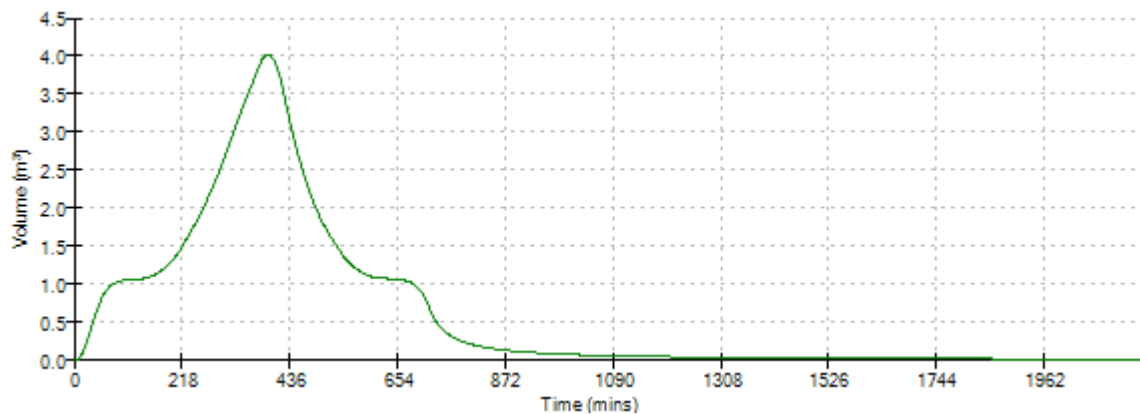
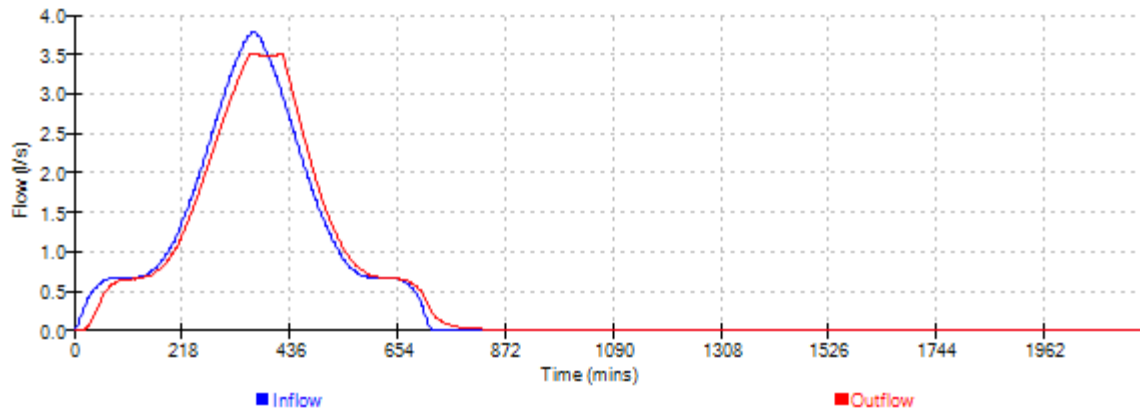
Easy Flood Risk		Page 33
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 600 min Winter



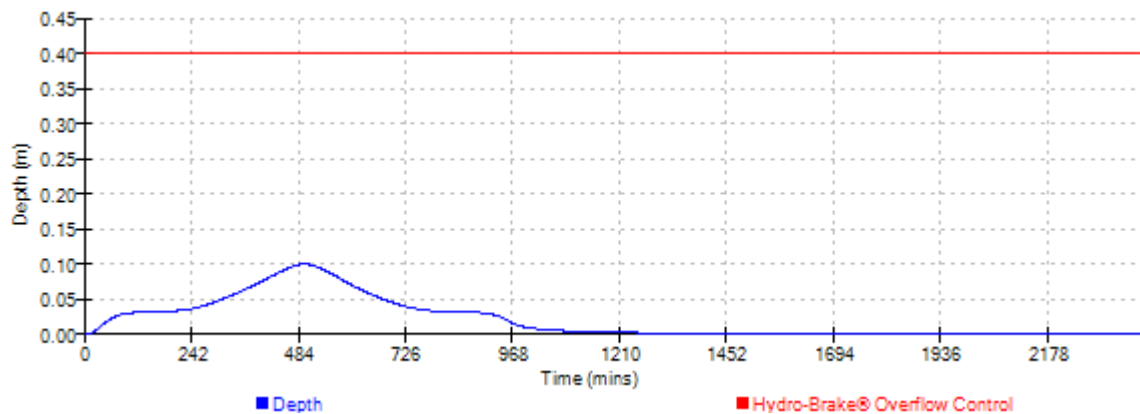
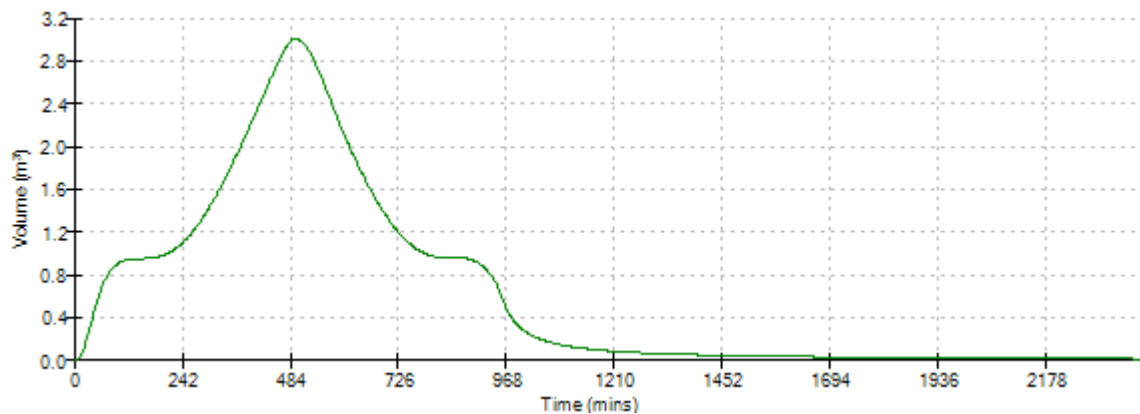
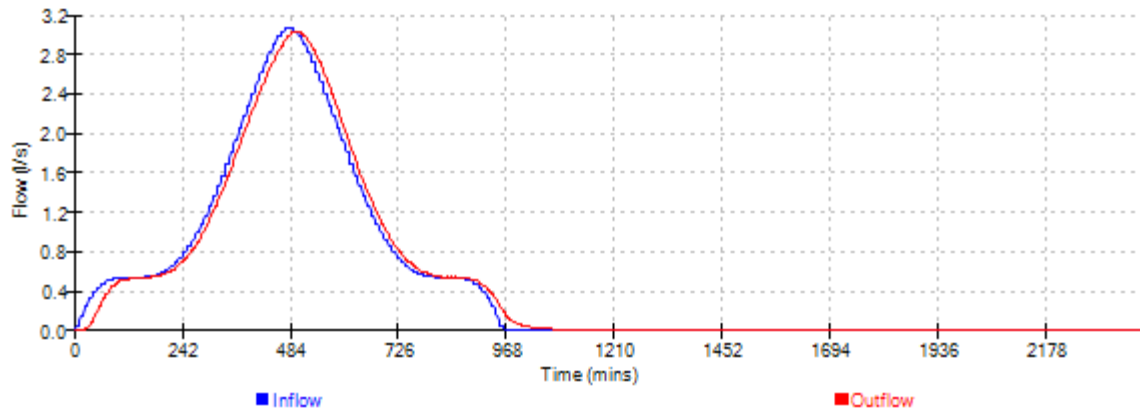
Easy Flood Risk		Page 34
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 720 min Winter



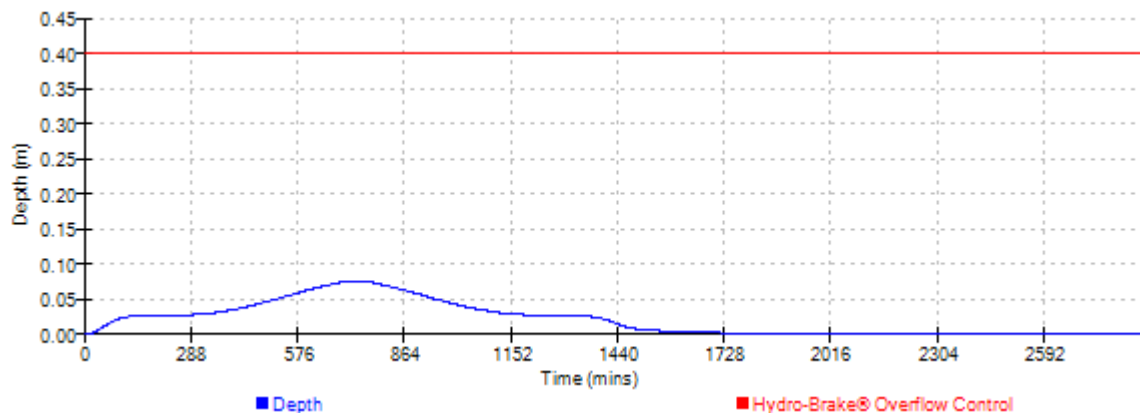
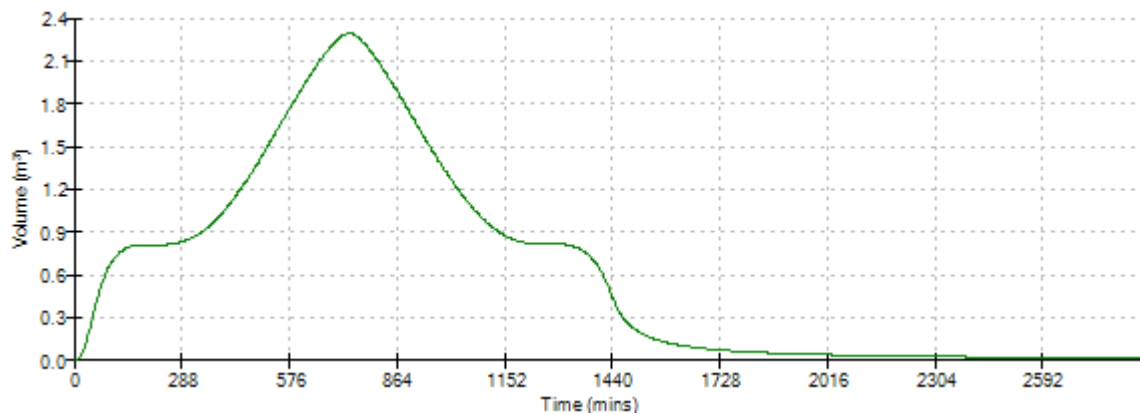
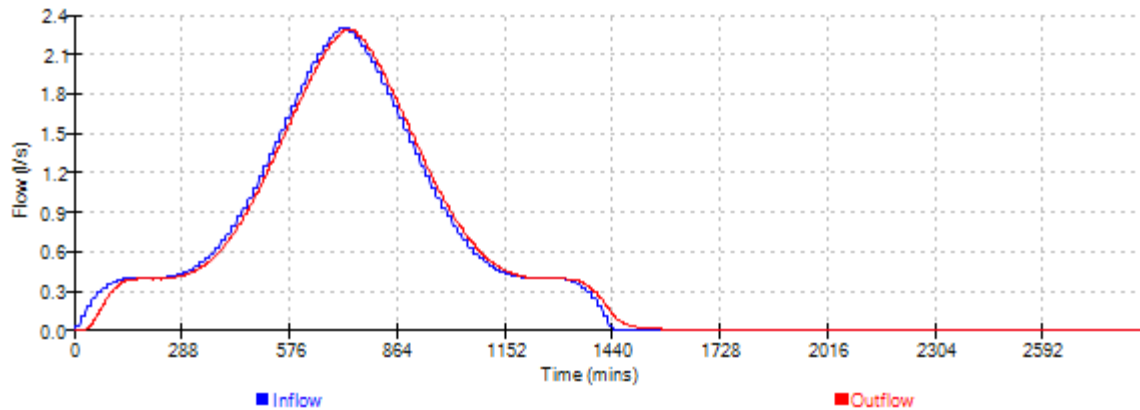
Easy Flood Risk		Page 35
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 960 min Winter



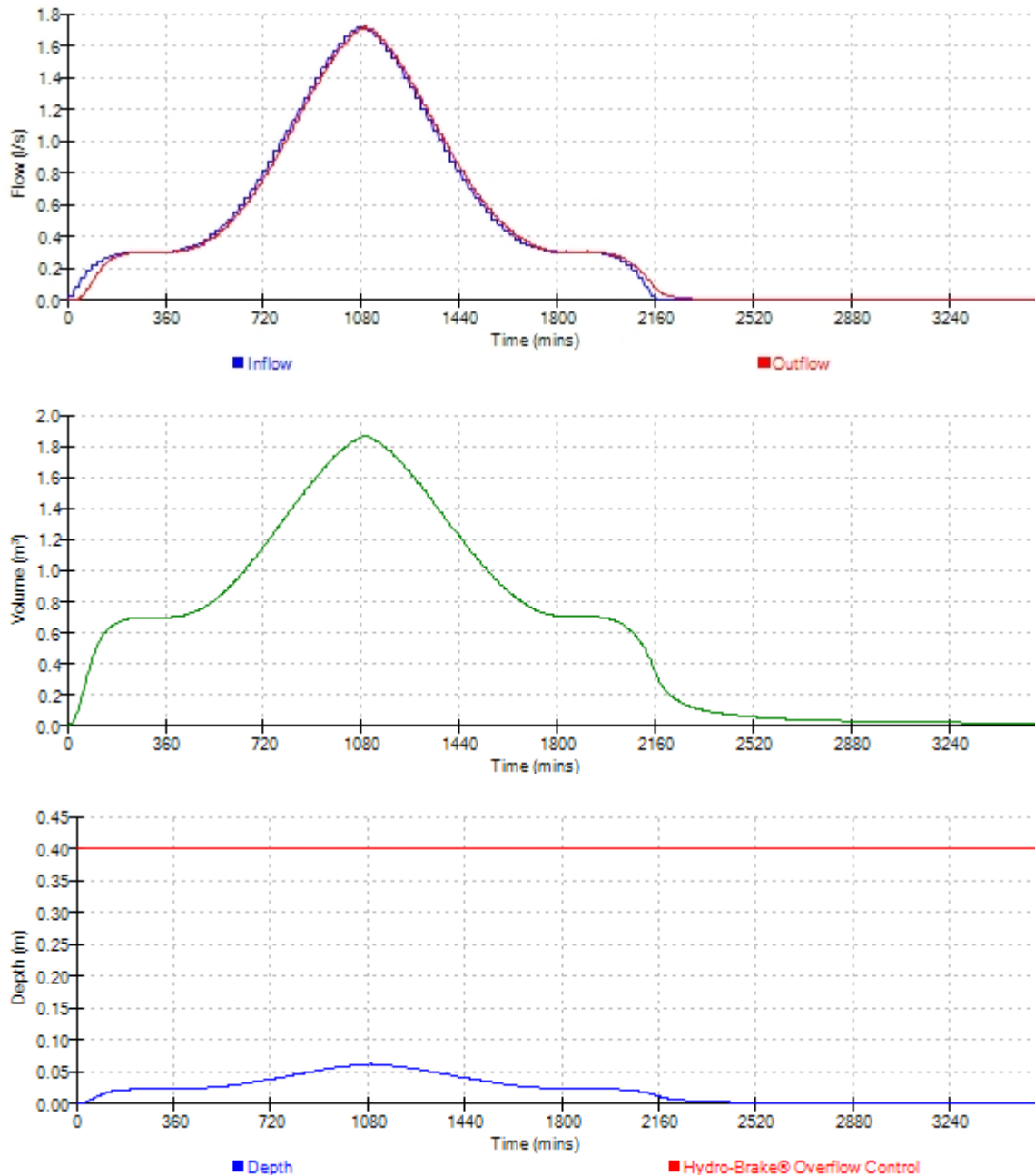
Easy Flood Risk		Page 36
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Winter



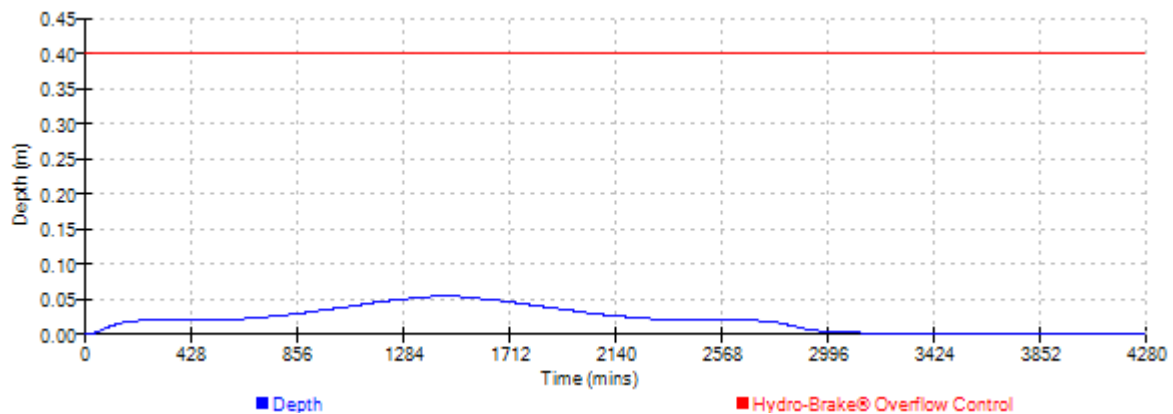
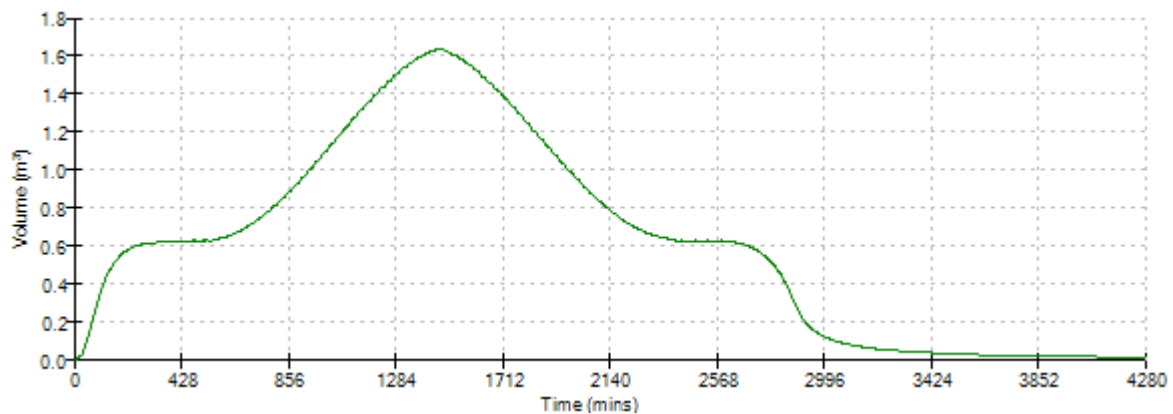
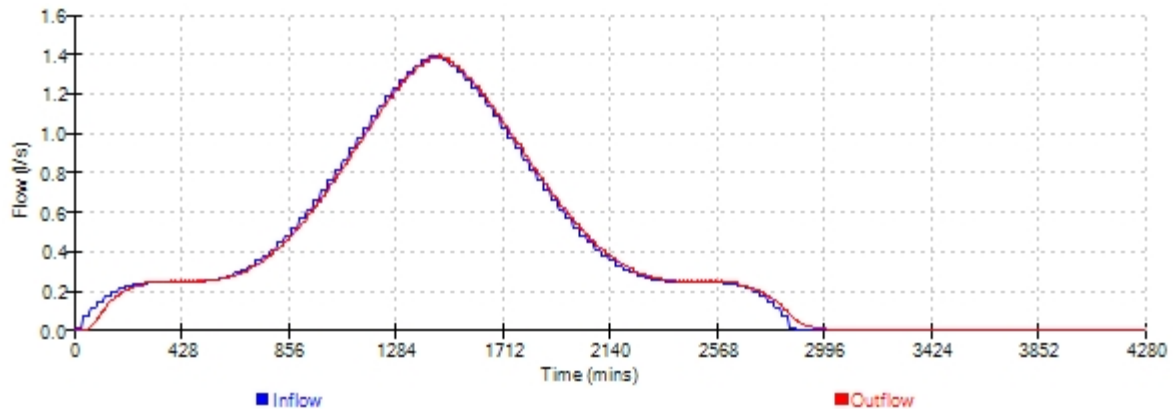
Easy Flood Risk		Page 37
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Winter



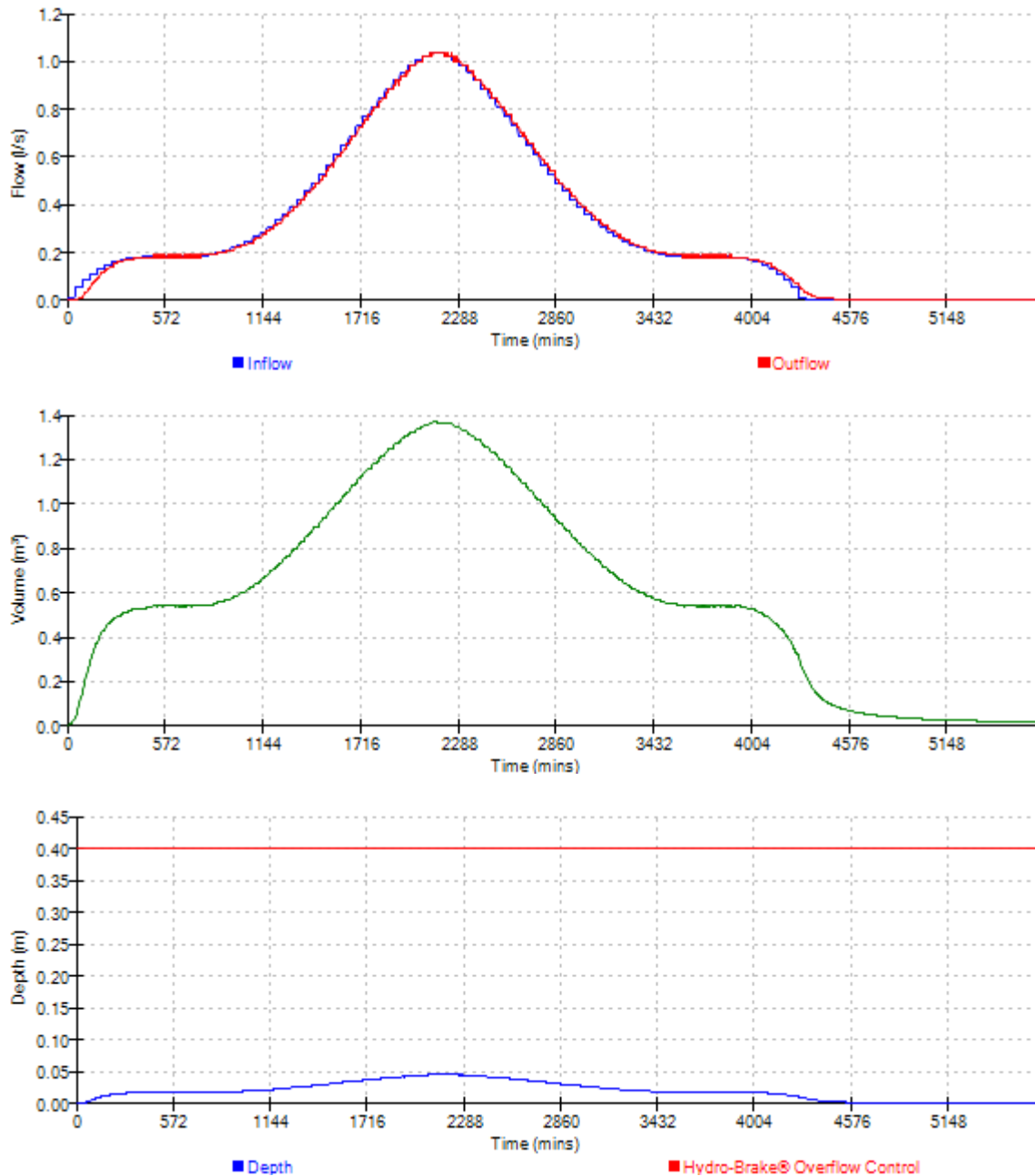
Easy Flood Risk		Page 38
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Winter



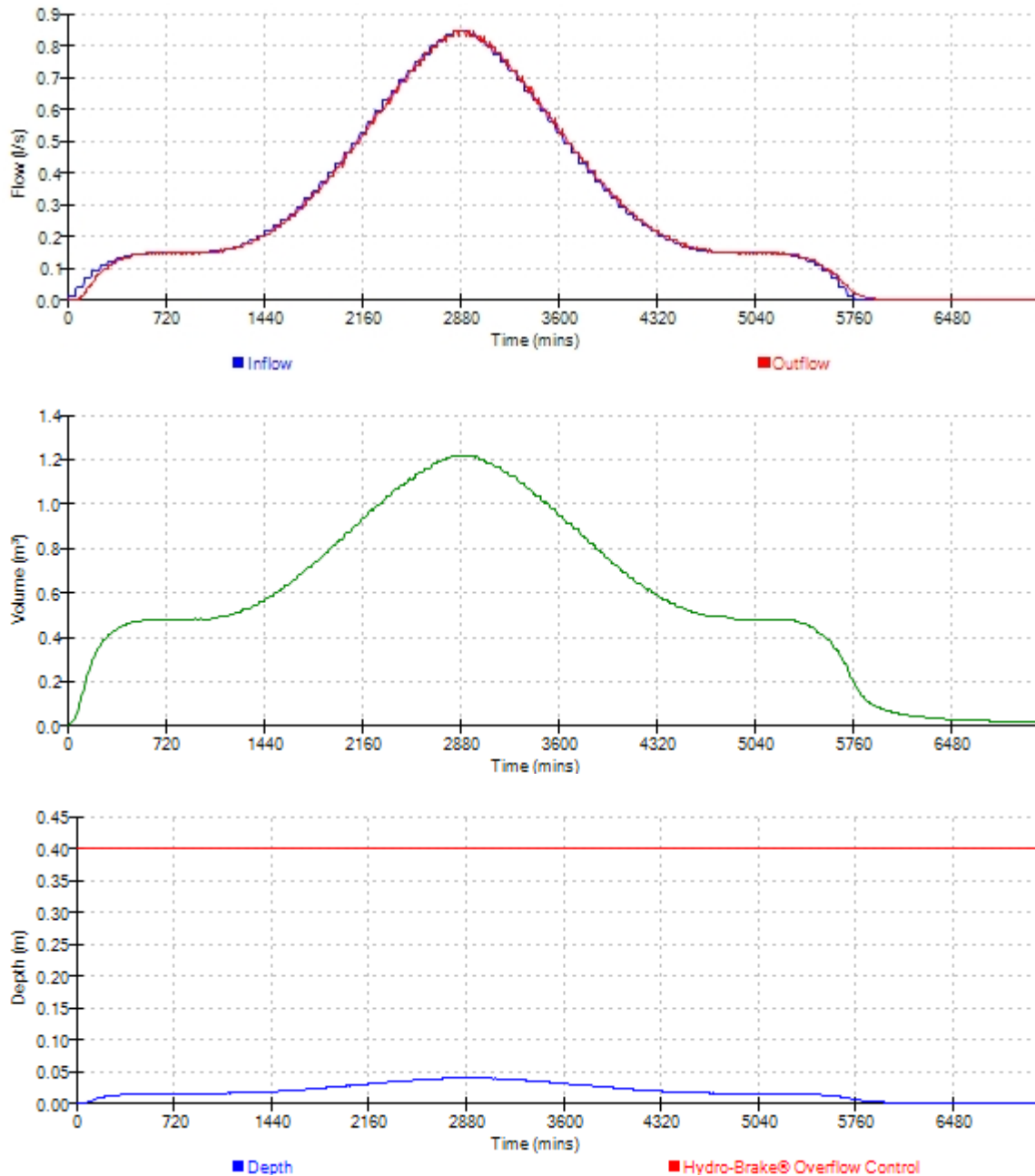
Easy Flood Risk		Page 39
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Winter



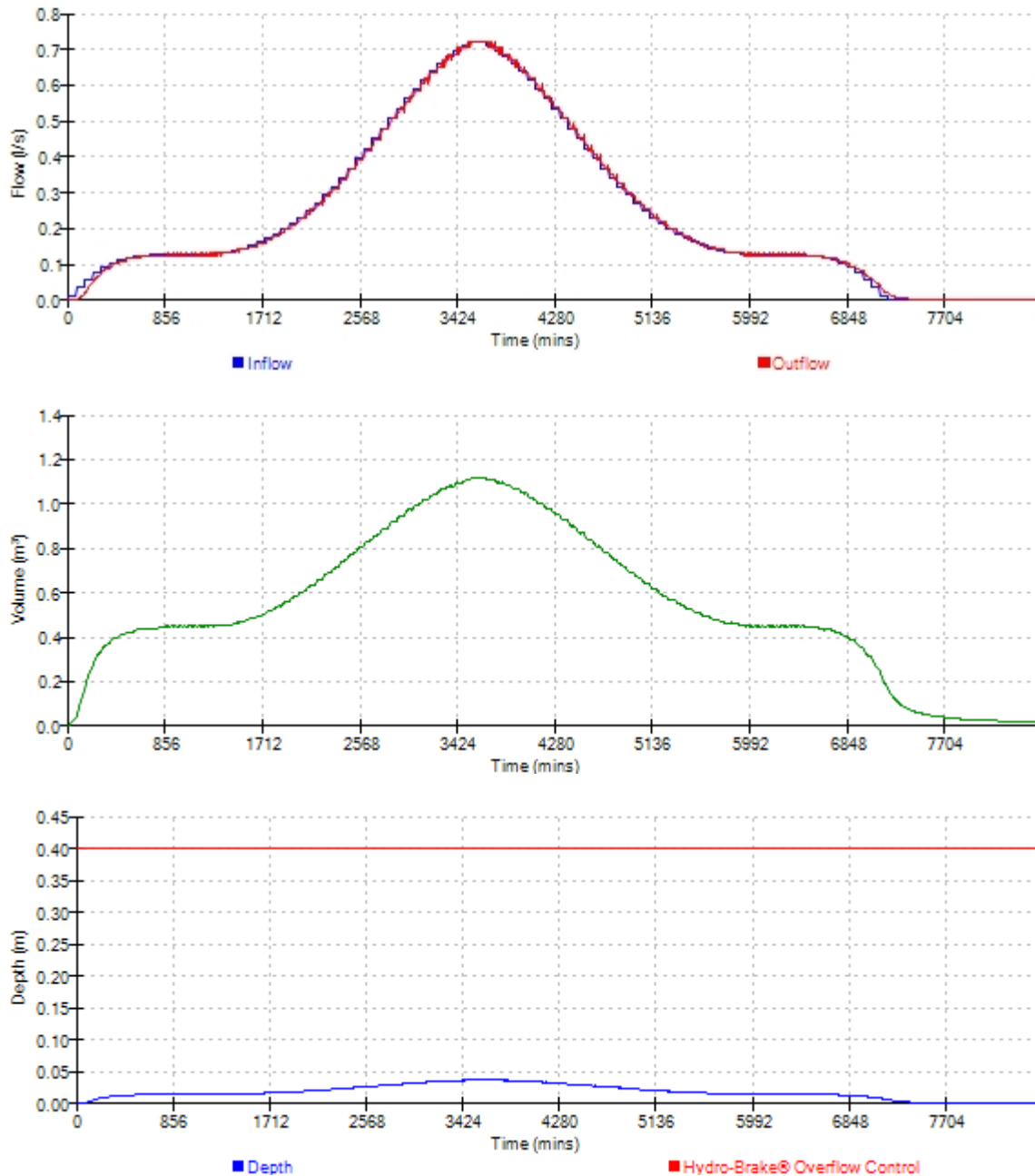
Easy Flood Risk		Page 40
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Winter



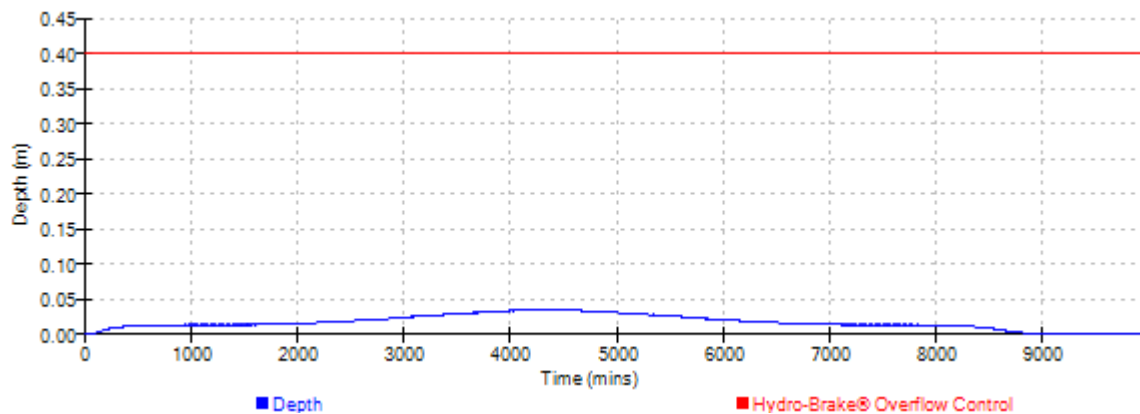
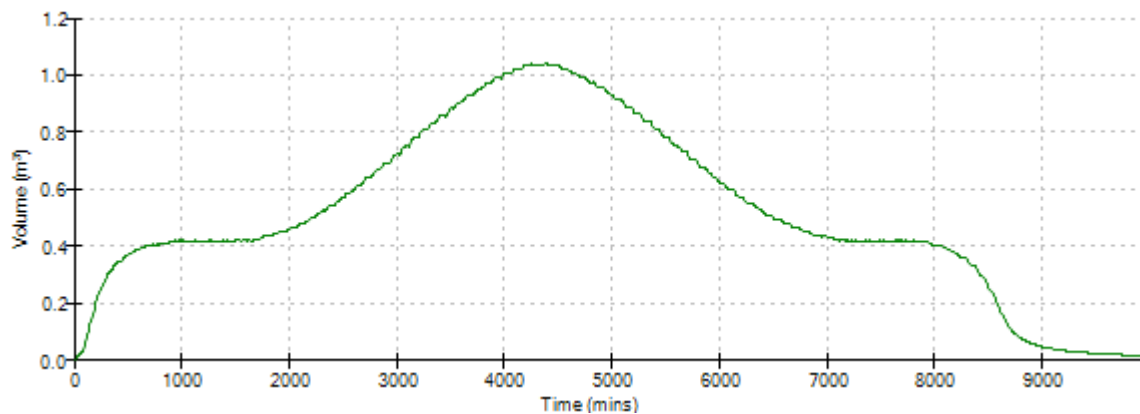
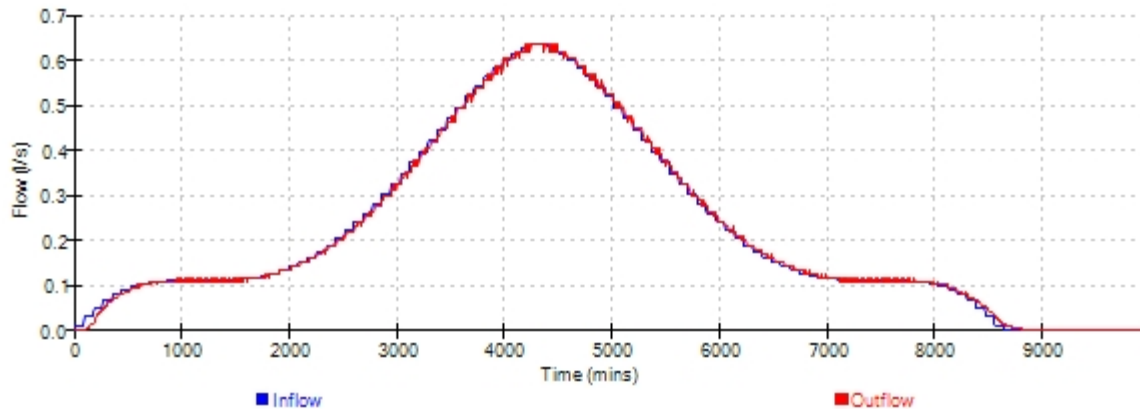
Easy Flood Risk		Page 41
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Winter



Easy Flood Risk		Page 42
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 8640 min Winter



Easy Flood Risk		Page 43
55 Shepherds Lane Dartford DA1 2NL		
Date 14/03/2023 07:04 File Twin Brook.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Winter

