

Appendix I Attenuation Storage Modelling Output Summary

Easy Flood Risk						Page 1		
55 Shepherds Lane Dartford DA1 2NL								
Date 14/12/2021 13:54 File 49Warren.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 (l/s)	Max Overflow (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
15 min	Summer	3.700	0.200	0.5	0.0	0.5	3.0	O K
30 min	Summer	3.756	0.256	0.5	0.0	0.5	3.8	O K
60 min	Summer	3.799	0.299	0.5	0.0	0.5	4.5	O K
120 min	Summer	3.814	0.314	0.5	0.0	0.5	4.7	O K
180 min	Summer	3.806	0.306	0.5	0.0	0.5	4.6	O K
240 min	Summer	3.791	0.291	0.5	0.0	0.5	4.4	O K
360 min	Summer	3.760	0.260	0.5	0.0	0.5	3.9	O K
480 min	Summer	3.730	0.230	0.5	0.0	0.5	3.4	O K
600 min	Summer	3.701	0.201	0.5	0.0	0.5	3.0	O K
720 min	Summer	3.676	0.176	0.5	0.0	0.5	2.6	O K
960 min	Summer	3.634	0.134	0.5	0.0	0.5	2.0	O K
1440 min	Summer	3.584	0.084	0.5	0.0	0.5	1.3	O K
2160 min	Summer	3.555	0.055	0.4	0.0	0.4	0.8	O K
2880 min	Summer	3.544	0.044	0.3	0.0	0.3	0.7	O K
4320 min	Summer	3.532	0.032	0.2	0.0	0.2	0.5	O K
5760 min	Summer	3.527	0.027	0.2	0.0	0.2	0.4	O K
7200 min	Summer	3.524	0.024	0.2	0.0	0.2	0.4	O K
8640 min	Summer	3.522	0.022	0.1	0.0	0.1	0.3	O K
10080 min	Summer	3.521	0.021	0.1	0.0	0.1	0.3	O K
Storm Event		Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min	Summer	127.517	0.0	3.3	0.0	17		
30 min	Summer	85.701	0.0	4.5	0.0	32		
60 min	Summer	54.957	0.0	5.8	0.0	60		
120 min	Summer	34.010	0.0	7.1	0.0	102		
180 min	Summer	25.295	0.0	8.0	0.0	132		
240 min	Summer	20.351	0.0	8.5	0.0	166		
360 min	Summer	14.971	0.0	9.4	0.0	232		
480 min	Summer	12.028	0.0	10.1	0.0	296		
600 min	Summer	10.141	0.0	10.6	0.0	360		
720 min	Summer	8.817	0.0	11.1	0.0	420		
960 min	Summer	7.063	0.0	11.9	0.0	540		
1440 min	Summer	5.157	0.0	13.0	0.0	766		
2160 min	Summer	3.757	0.0	14.2	0.0	1104		
2880 min	Summer	2.997	0.0	15.1	0.0	1468		
4320 min	Summer	2.176	0.0	16.4	0.0	2204		
5760 min	Summer	1.731	0.0	17.4	0.0	2936		
7200 min	Summer	1.449	0.0	18.3	0.0	3576		
8640 min	Summer	1.255	0.0	19.0	0.0	4320		
10080 min	Summer	1.111	0.0	19.6	0.0	5088		
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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 (l/s)	Max Overflow (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
15 min Winter		3.726	0.226	0.5	0.0	0.5	3.4	O K
30 min Winter		3.792	0.292	0.5	0.0	0.5	4.4	O K
60 min Winter		3.846	0.346	0.5	0.0	0.5	5.2	O K
120 min Winter		3.864	0.364	0.5	0.0	0.5	5.5	O K
180 min Winter		3.853	0.353	0.5	0.0	0.5	5.3	O K
240 min Winter		3.834	0.334	0.5	0.0	0.5	5.0	O K
360 min Winter		3.783	0.283	0.5	0.0	0.5	4.2	O K
480 min Winter		3.734	0.234	0.5	0.0	0.5	3.5	O K
600 min Winter		3.690	0.190	0.5	0.0	0.5	2.8	O K
720 min Winter		3.653	0.153	0.5	0.0	0.5	2.3	O K
960 min Winter		3.600	0.100	0.5	0.0	0.5	1.5	O K
1440 min Winter		3.557	0.057	0.4	0.0	0.4	0.9	O K
2160 min Winter		3.540	0.040	0.3	0.0	0.3	0.6	O K
2880 min Winter		3.532	0.032	0.2	0.0	0.2	0.5	O K
4320 min Winter		3.526	0.026	0.2	0.0	0.2	0.4	O K
5760 min Winter		3.522	0.022	0.1	0.0	0.1	0.3	O K
7200 min Winter		3.520	0.020	0.1	0.0	0.1	0.3	O K
8640 min Winter		3.518	0.018	0.1	0.0	0.1	0.3	O K
10080 min Winter		3.517	0.017	0.1	0.0	0.1	0.3	O K
Storm Event		Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Winter		127.517	0.0	3.7	0.0	17		
30 min Winter		85.701	0.0	5.0	0.0	32		
60 min Winter		54.957	0.0	6.5	0.0	60		
120 min Winter		34.010	0.0	8.0	0.0	114		
180 min Winter		25.295	0.0	8.9	0.0	142		
240 min Winter		20.351	0.0	9.6	0.0	182		
360 min Winter		14.971	0.0	10.6	0.0	254		
480 min Winter		12.028	0.0	11.3	0.0	320		
600 min Winter		10.141	0.0	11.9	0.0	382		
720 min Winter		8.817	0.0	12.4	0.0	442		
960 min Winter		7.063	0.0	13.3	0.0	550		
1440 min Winter		5.157	0.0	14.5	0.0	764		
2160 min Winter		3.757	0.0	15.9	0.0	1104		
2880 min Winter		2.997	0.0	16.9	0.0	1472		
4320 min Winter		2.176	0.0	18.4	0.0	2160		
5760 min Winter		1.731	0.0	19.5	0.0	2864		
7200 min Winter		1.449	0.0	20.4	0.0	3680		
8640 min Winter		1.255	0.0	21.2	0.0	4408		
10080 min Winter		1.111	0.0	21.9	0.0	5048		
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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)	19.400	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.014

Time (mins)	Area
From:	To: (ha)
0	4 0.014

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Easy Flood Risk		Page 4
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Model Details

Storage is Online Cover Level (m) 4.200

Tank or Pond Structure

Invert Level (m) 3.500

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	15.0	0.400	15.0

Hydro-Brake® Optimum Outflow Control

Unit Reference	MD-SCL-0036-5000-0500-5000
Design Head (m)	0.500
Design Flow (l/s)	0.5
Flush-Flo™	Calculated
Objective	Minimise blockage risk
Application	Surface
Sump Available	Yes
Diameter (mm)	36
Invert Level (m)	3.500
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	0.5	Kick-Flo®	0.316	0.4
Flush-Flo™	0.148	0.5	Mean Flow over Head Range	-	0.4

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	0.5	1.200	0.7	3.000	1.1	7.000	1.6
0.200	0.5	1.400	0.8	3.500	1.2	7.500	1.7
0.300	0.4	1.600	0.8	4.000	1.2	8.000	1.7
0.400	0.5	1.800	0.9	4.500	1.3	8.500	1.8
0.500	0.5	2.000	0.9	5.000	1.4	9.000	1.8
0.600	0.5	2.200	1.0	5.500	1.4	9.500	1.9
0.800	0.6	2.400	1.0	6.000	1.5		
1.000	0.7	2.600	1.0	6.500	1.6		

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Easy Flood Risk		Page 5
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Hydro-Brake® Optimum Overflow Control

Unit Reference	MD-SCL-0038-5000-0300-5000
Design Head (m)	0.300
Design Flow (l/s)	0.5
Flush-Flo™	Calculated
Objective	Minimise blockage risk
Application	Surface
Sump Available	Yes
Diameter (mm)	38
Invert Level (m)	3.900
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)	0.300	0.5	Kick-Flo®	0.195	0.4
Flush-Flo™	0.074	0.5	Mean Flow over Head Range	-	0.4

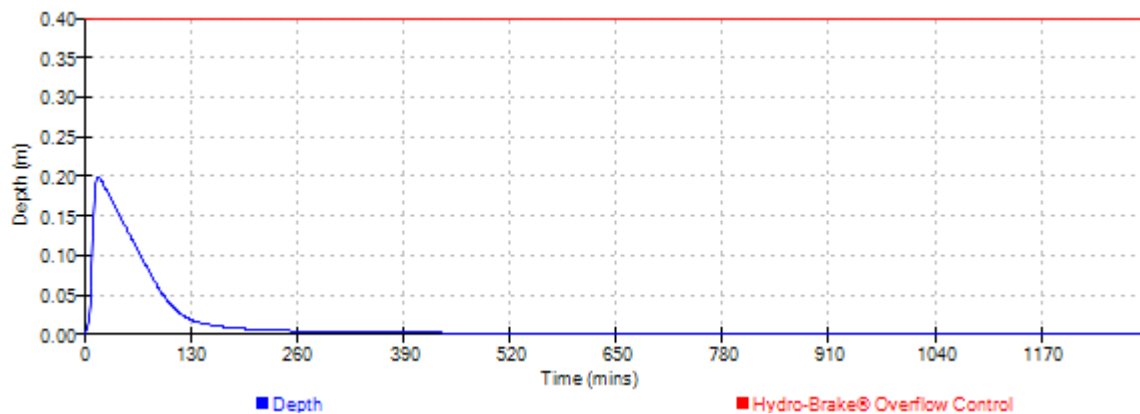
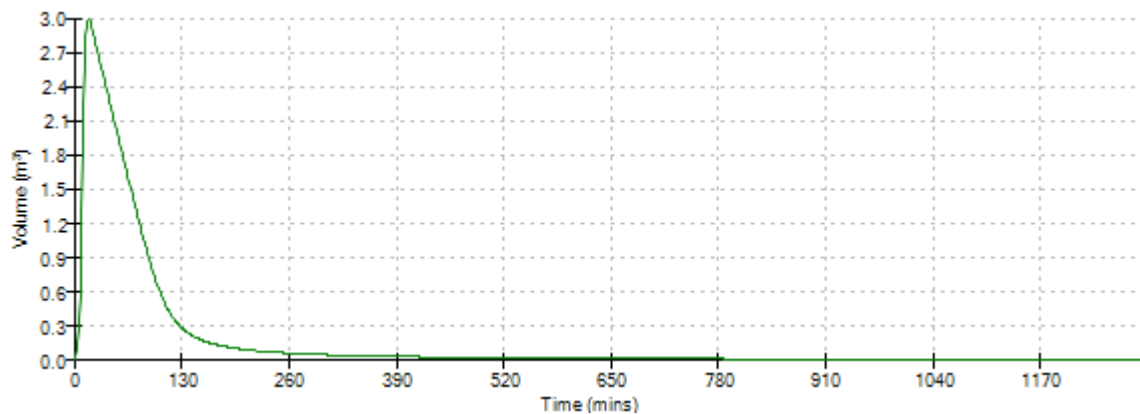
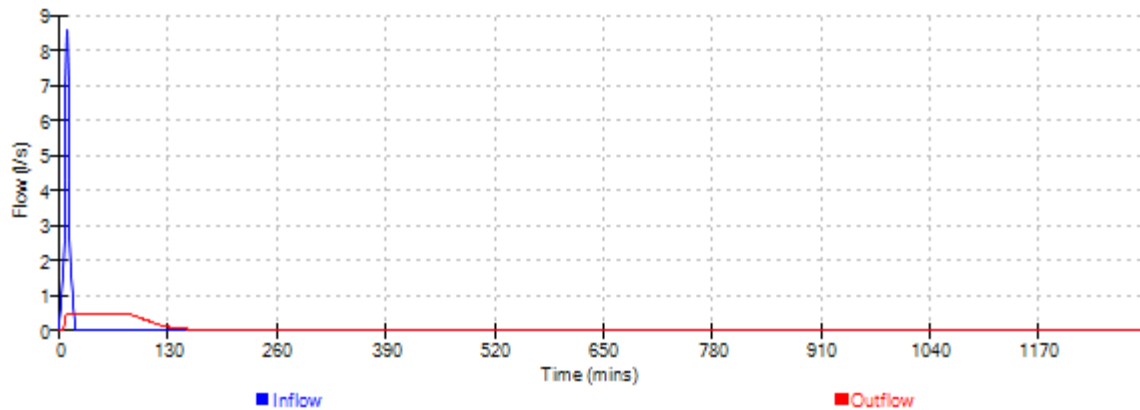
The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	0.5	1.200	0.9	3.000	1.4	7.000	2.1
0.200	0.4	1.400	1.0	3.500	1.5	7.500	2.2
0.300	0.5	1.600	1.0	4.000	1.6	8.000	2.2
0.400	0.6	1.800	1.1	4.500	1.7	8.500	2.3
0.500	0.6	2.000	1.1	5.000	1.8	9.000	2.4
0.600	0.7	2.200	1.2	5.500	1.9	9.500	2.4
0.800	0.8	2.400	1.2	6.000	1.9		
1.000	0.8	2.600	1.3	6.500	2.0		

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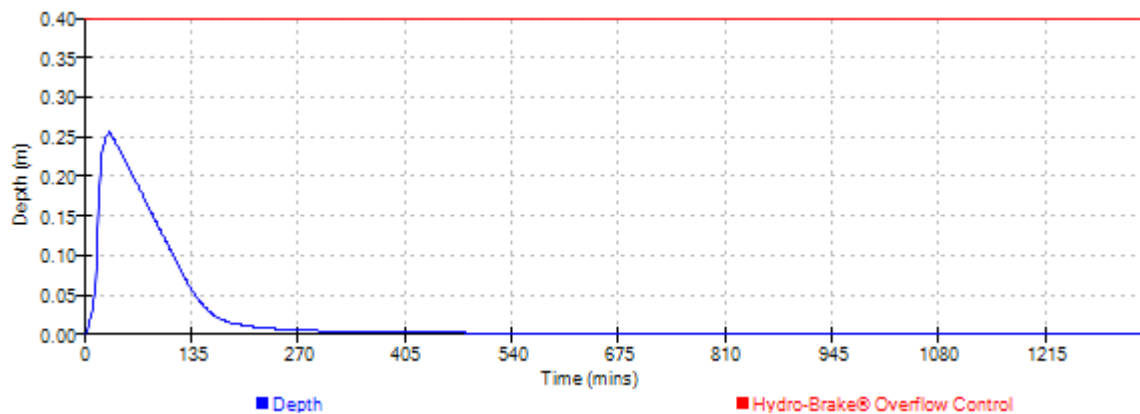
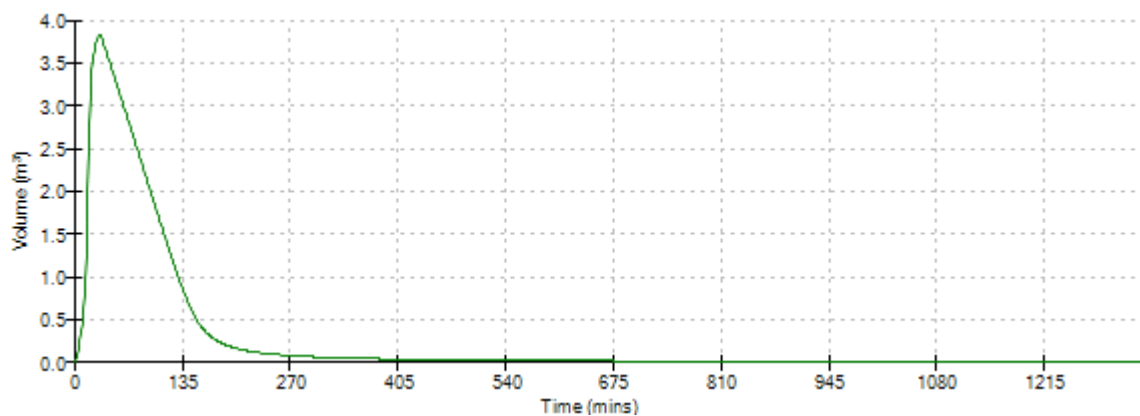
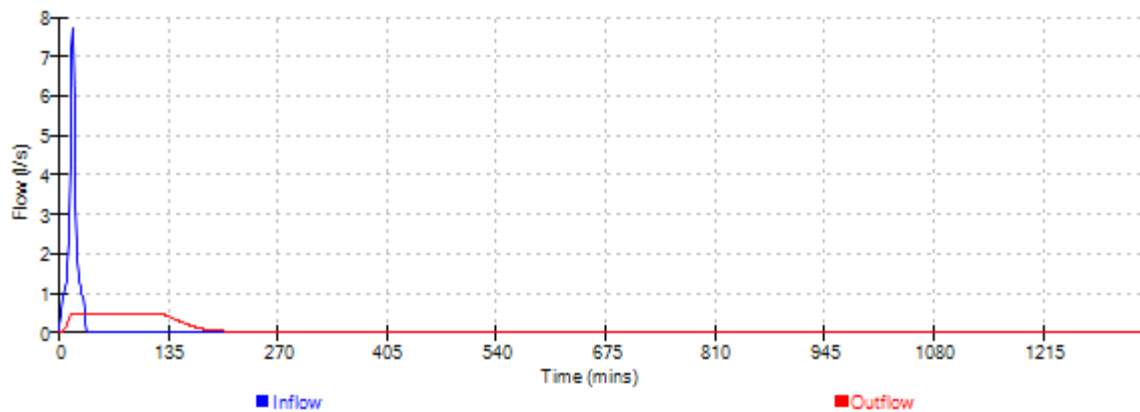
Easy Flood Risk		Page 6
55 Shepherds Lane Dartford DA1 2NL		
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Event: 15 min Summer



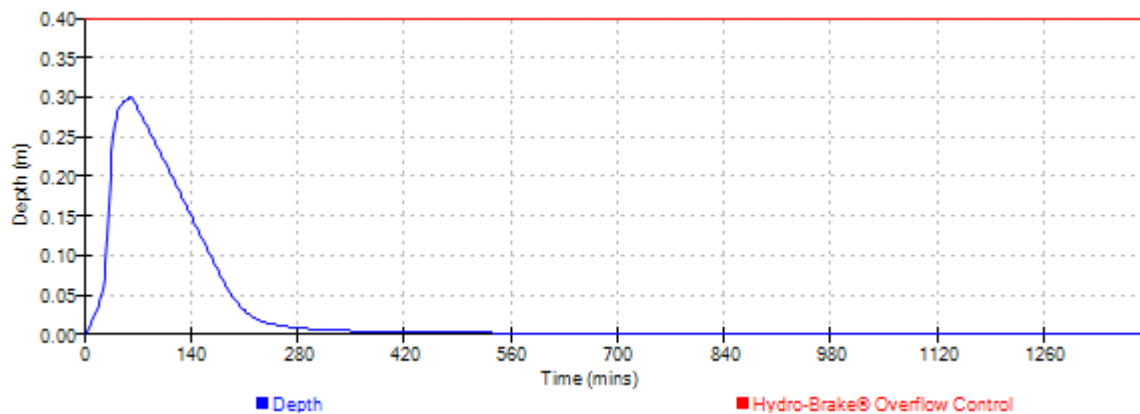
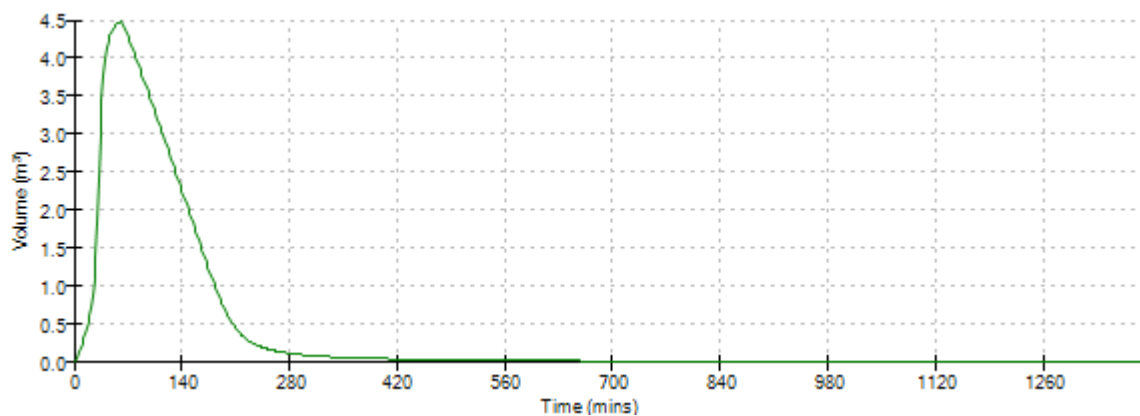
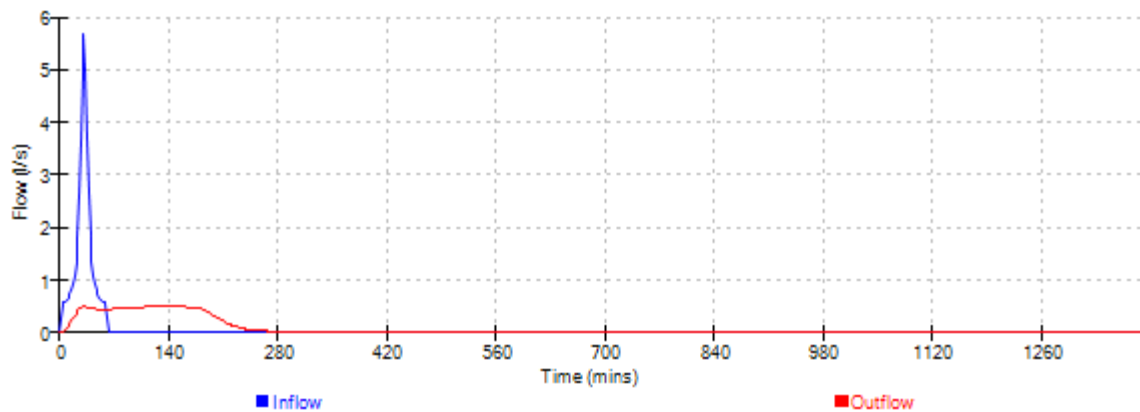
Easy Flood Risk		Page 7
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 30 min Summer



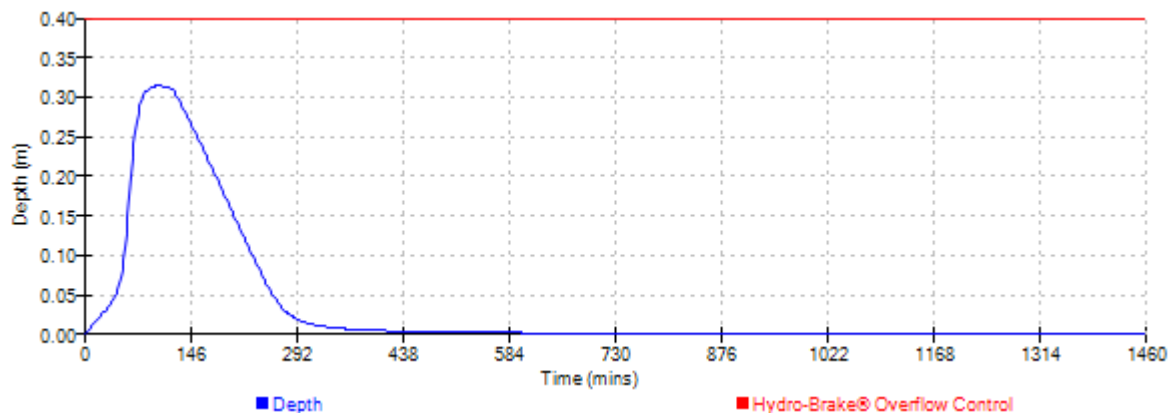
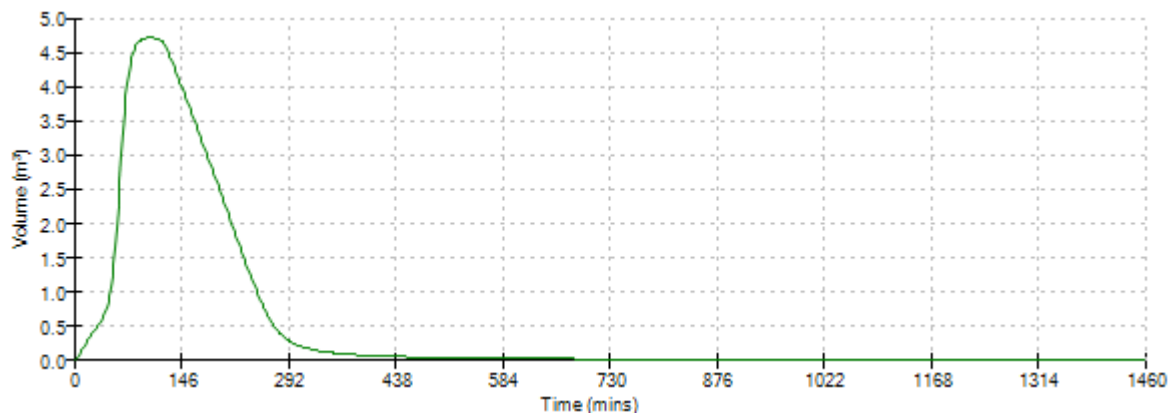
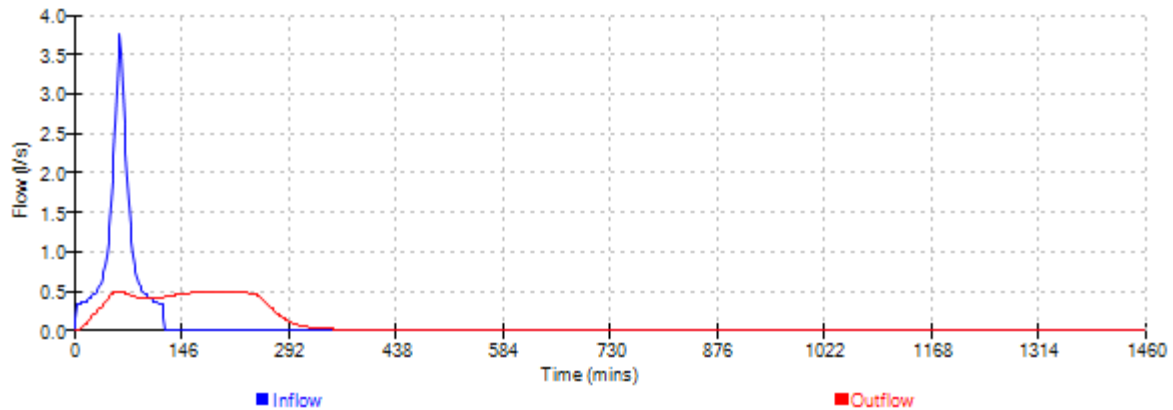
Easy Flood Risk		Page 8
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 60 min Summer



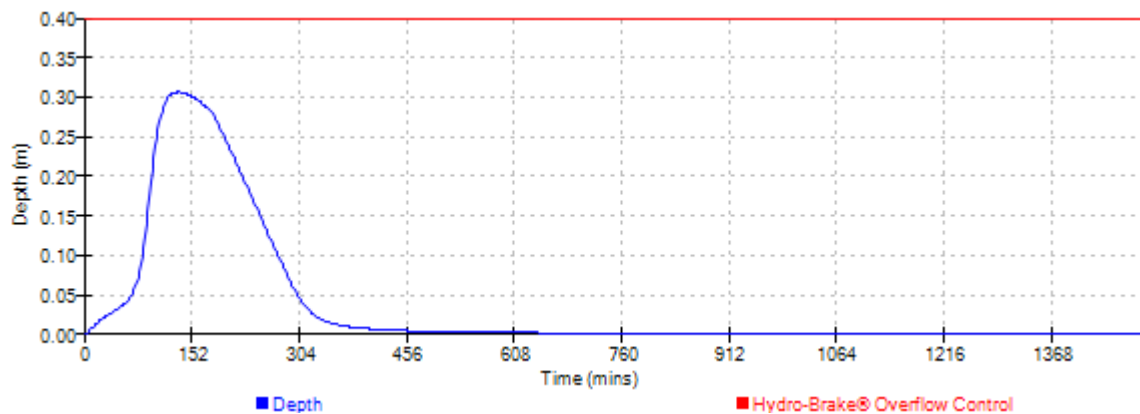
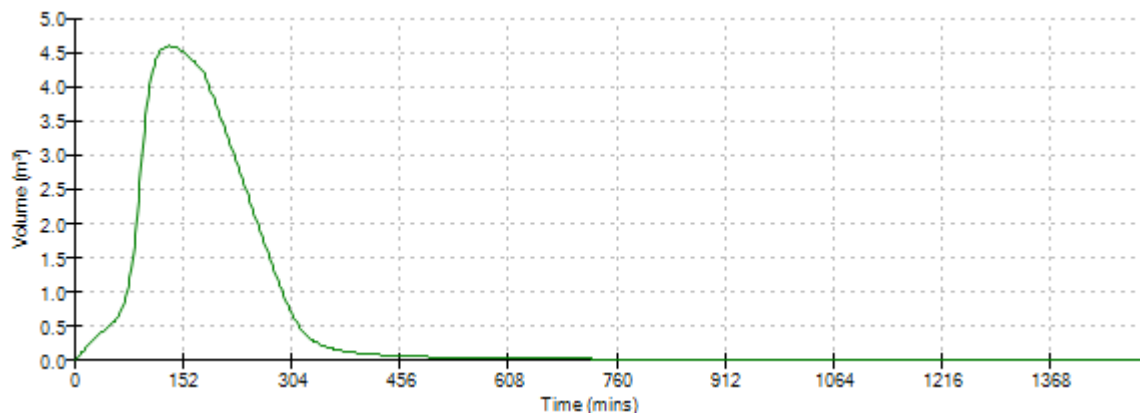
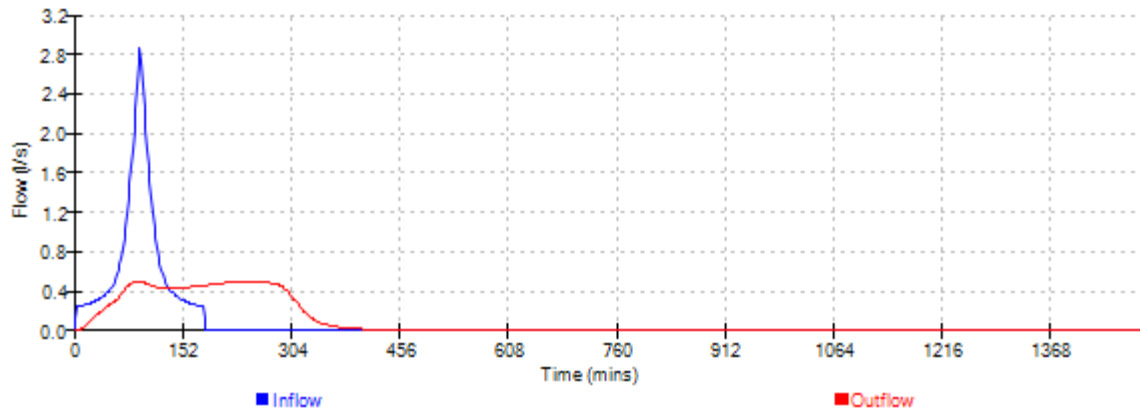
Easy Flood Risk		Page 9
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 120 min Summer



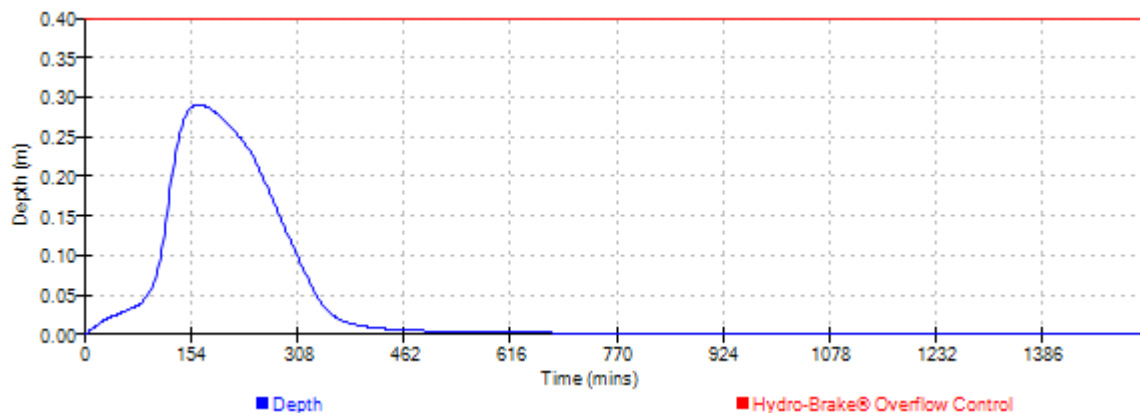
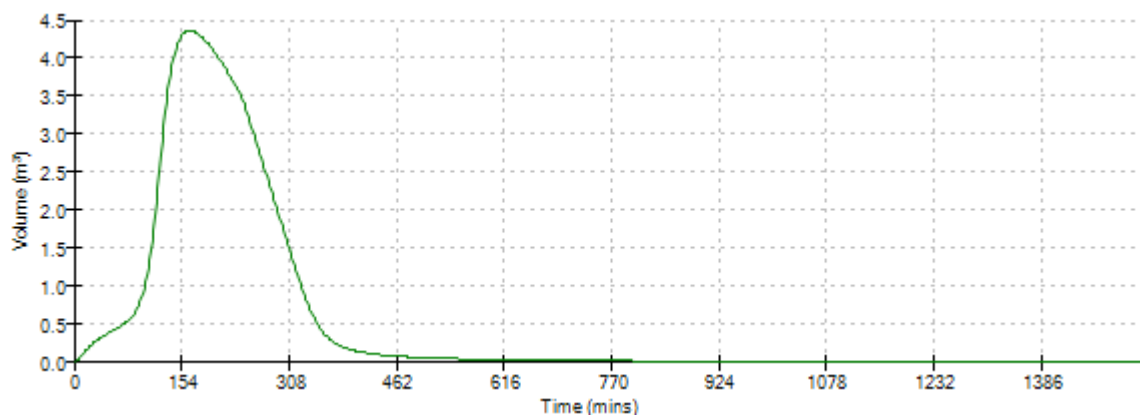
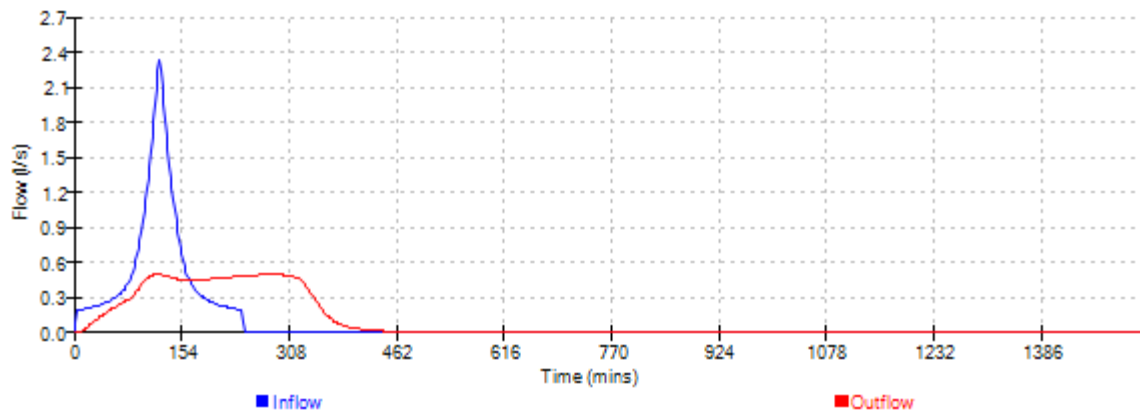
Easy Flood Risk		Page 10
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 180 min Summer



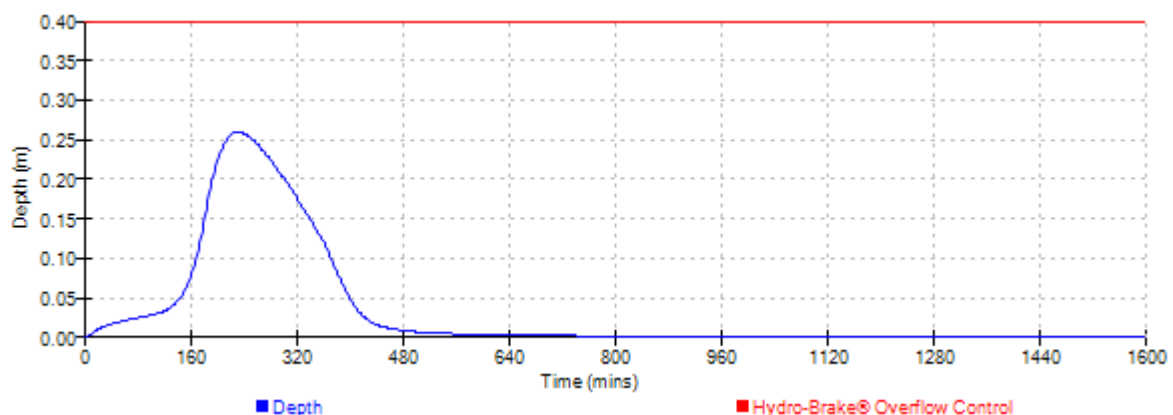
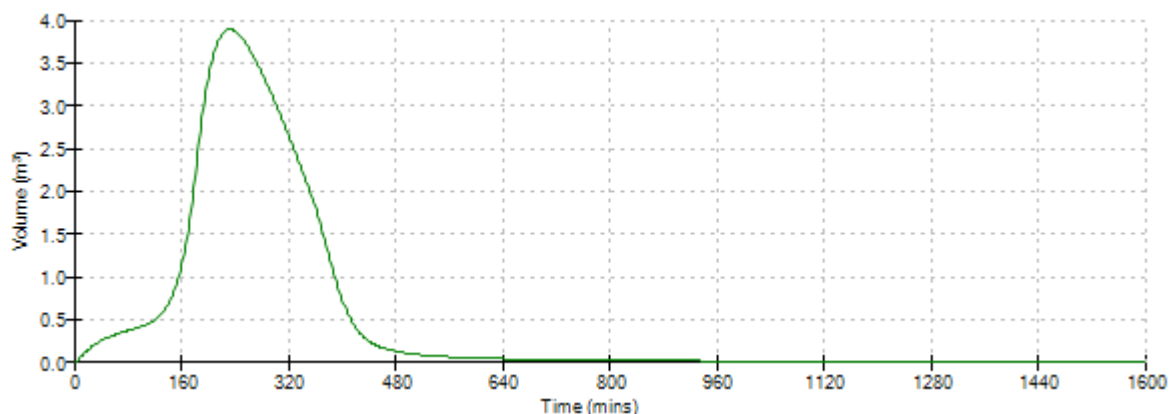
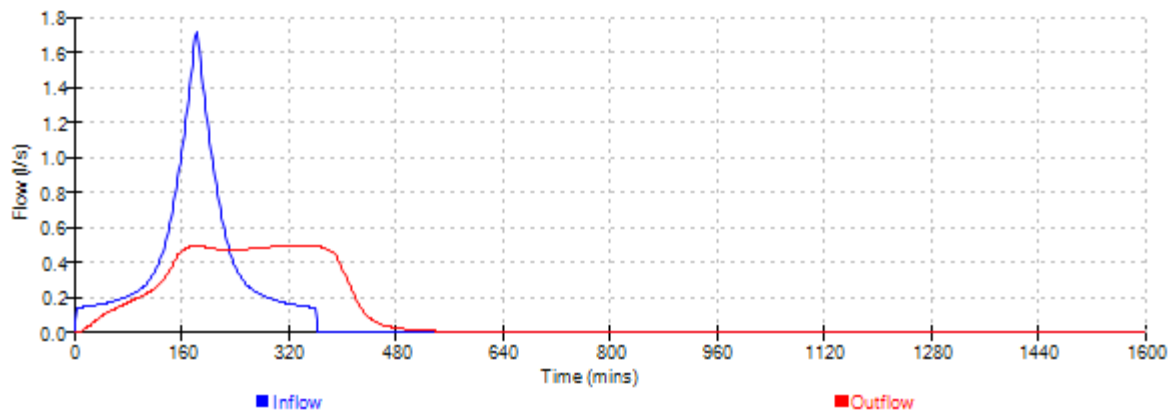
Easy Flood Risk		Page 11
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 240 min Summer



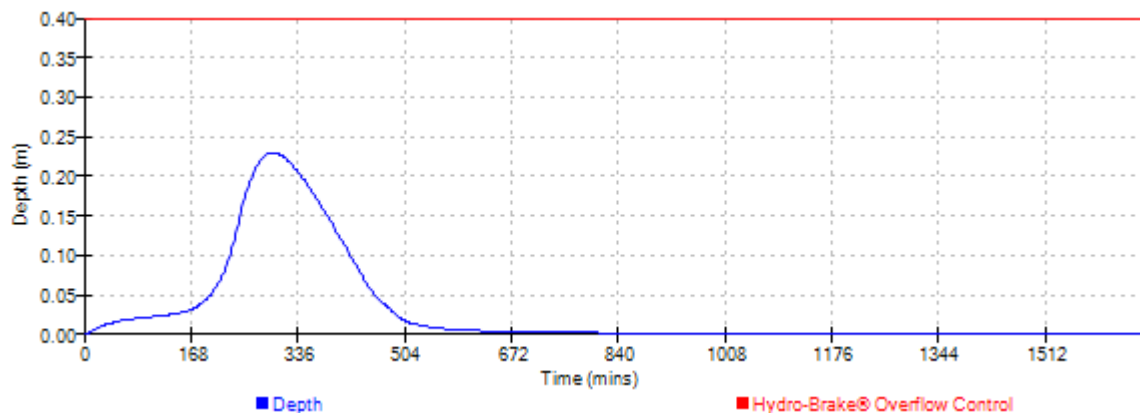
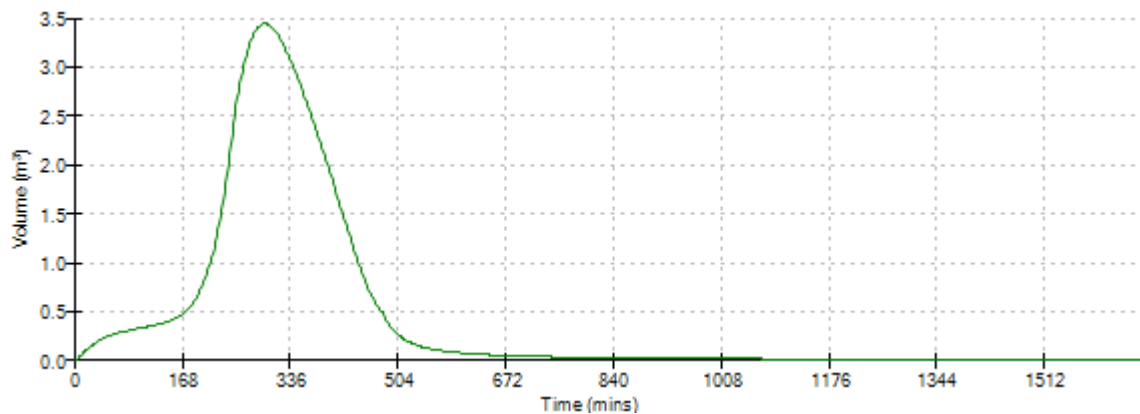
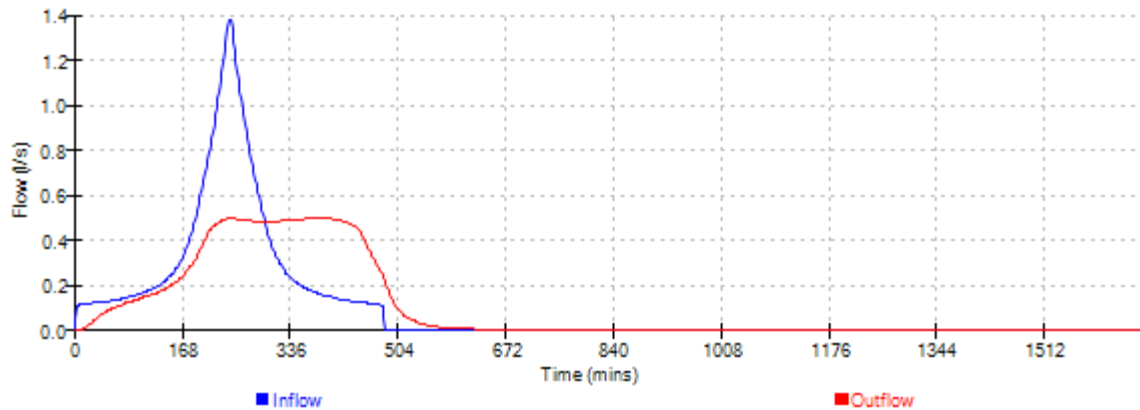
Easy Flood Risk		Page 12
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 360 min Summer



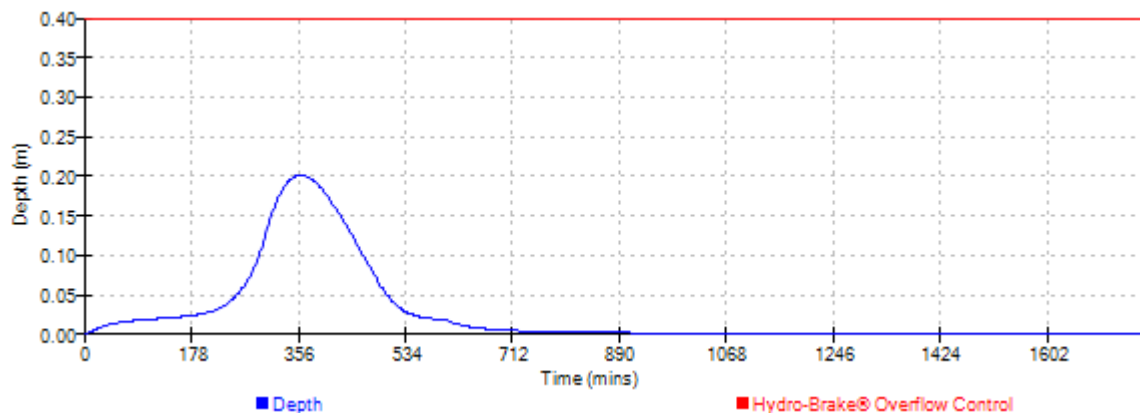
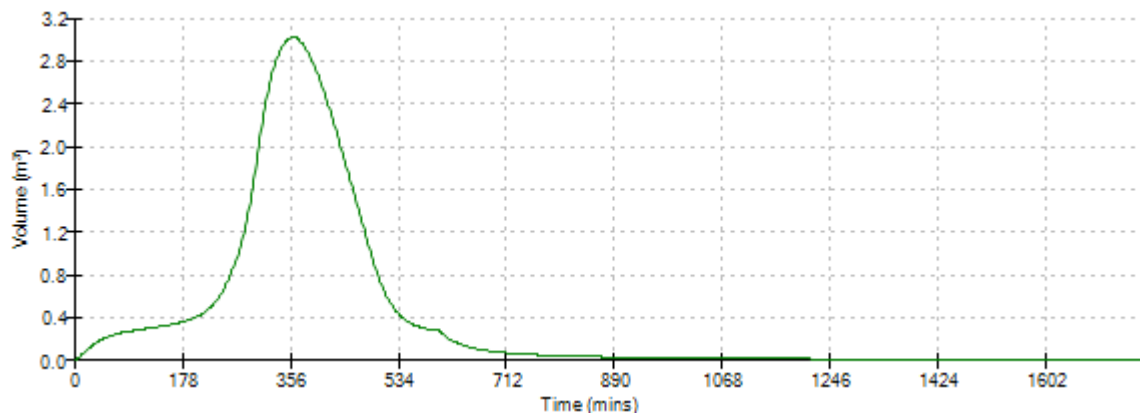
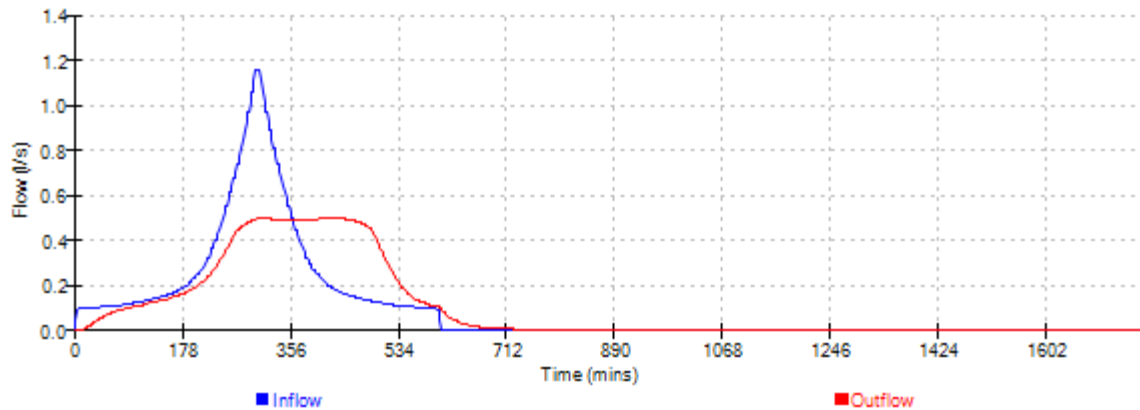
Easy Flood Risk		Page 13
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 480 min Summer



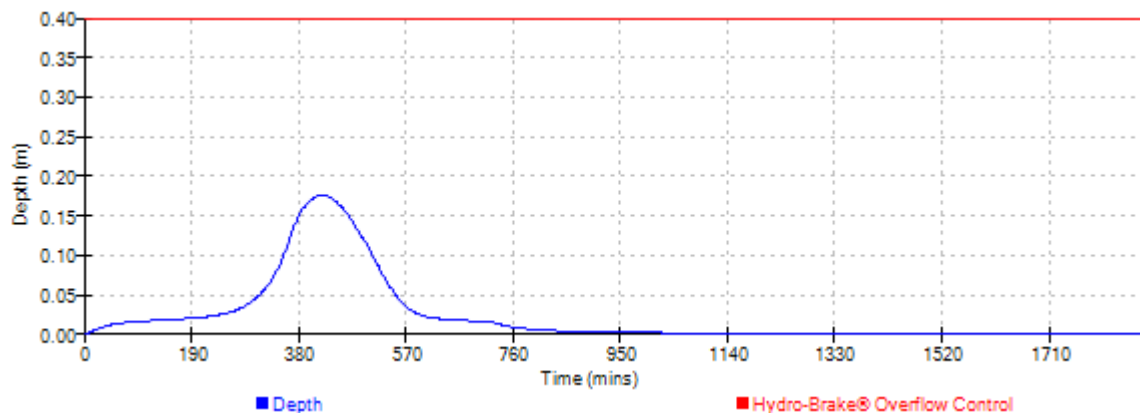
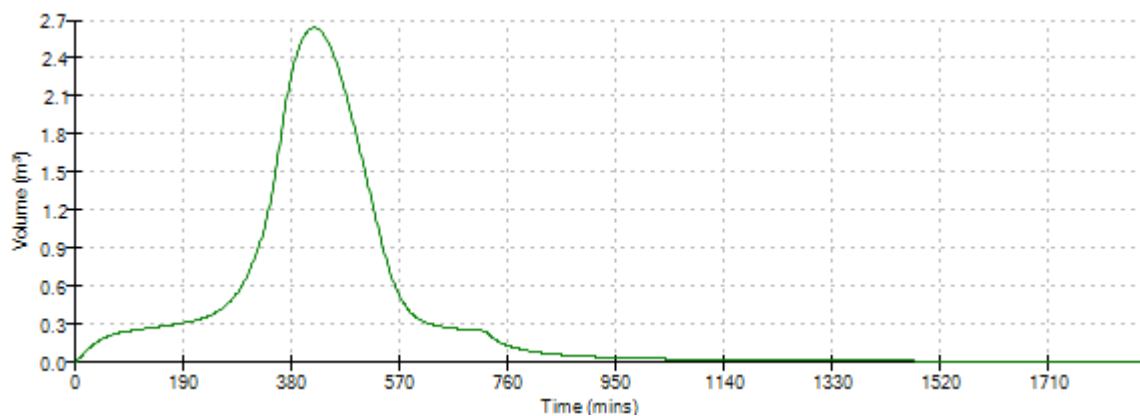
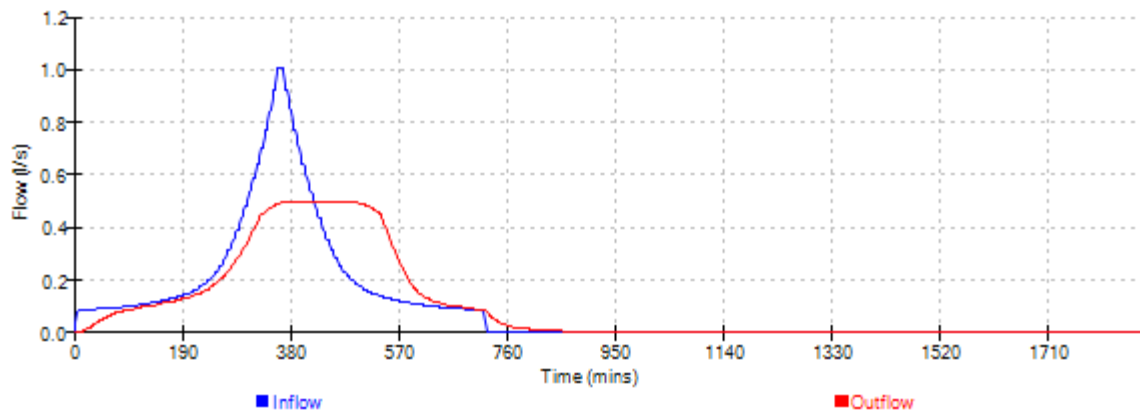
Easy Flood Risk		Page 14
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 600 min Summer



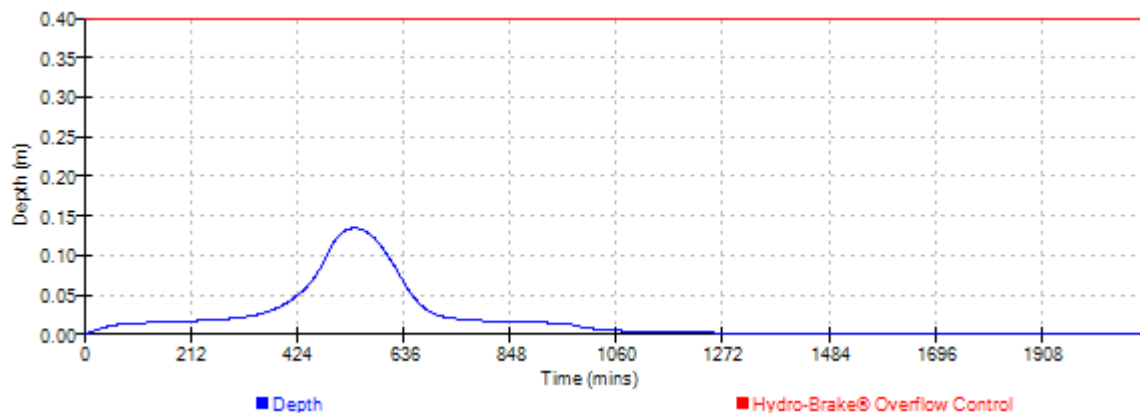
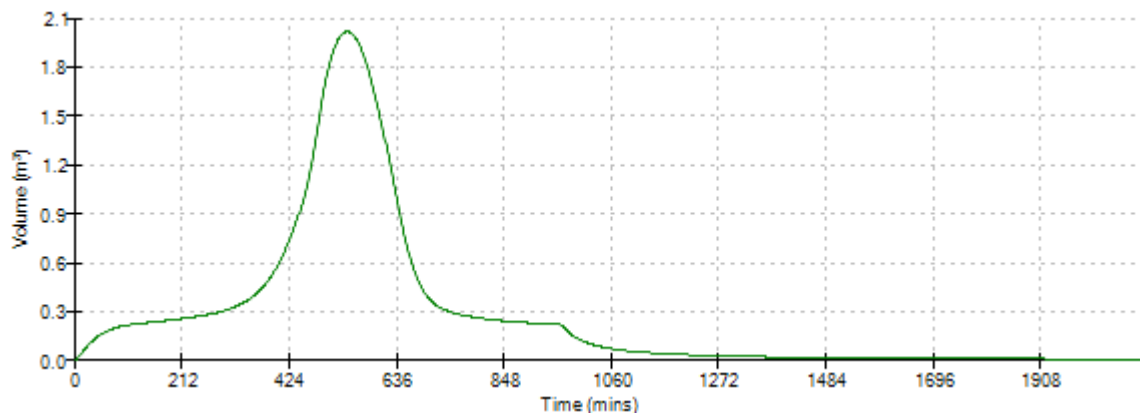
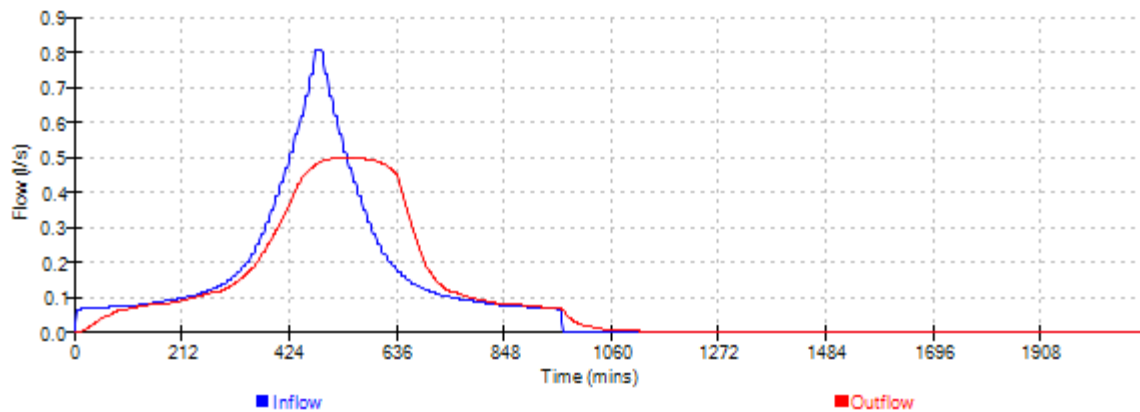
Easy Flood Risk		Page 15
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 720 min Summer



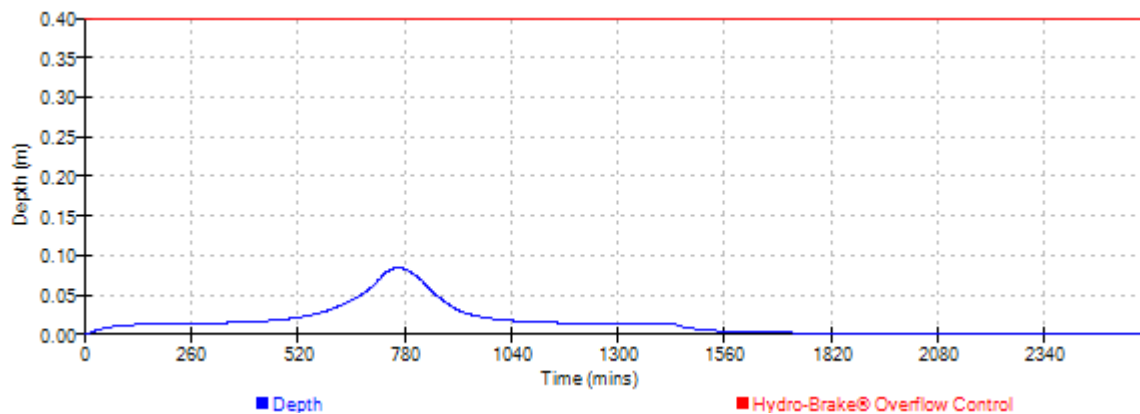
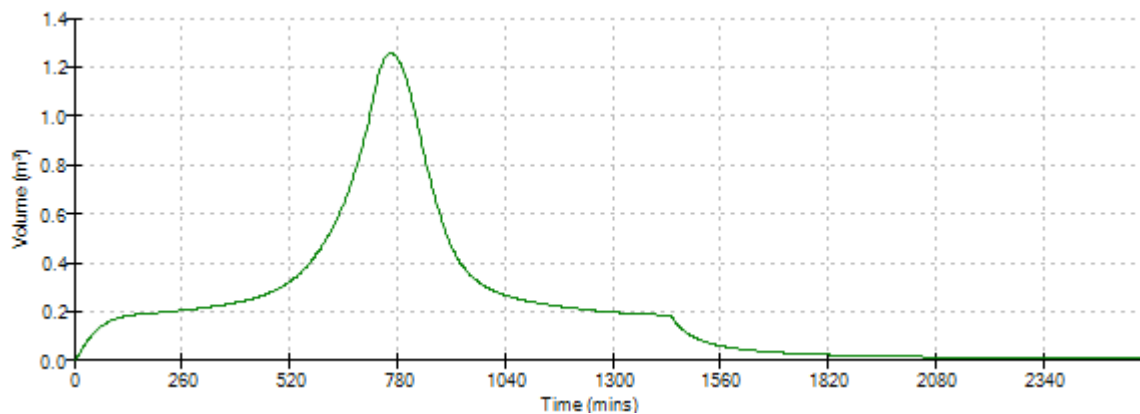
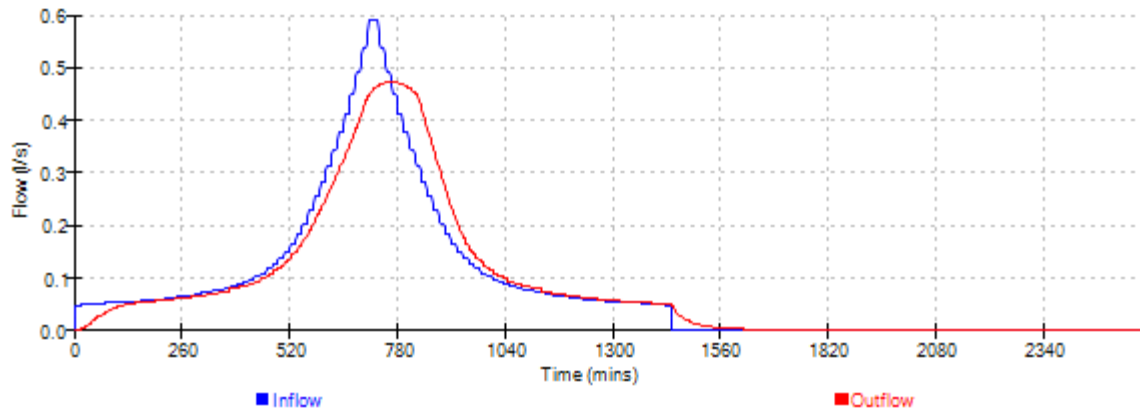
Easy Flood Risk		Page 16
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
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Event: 960 min Summer



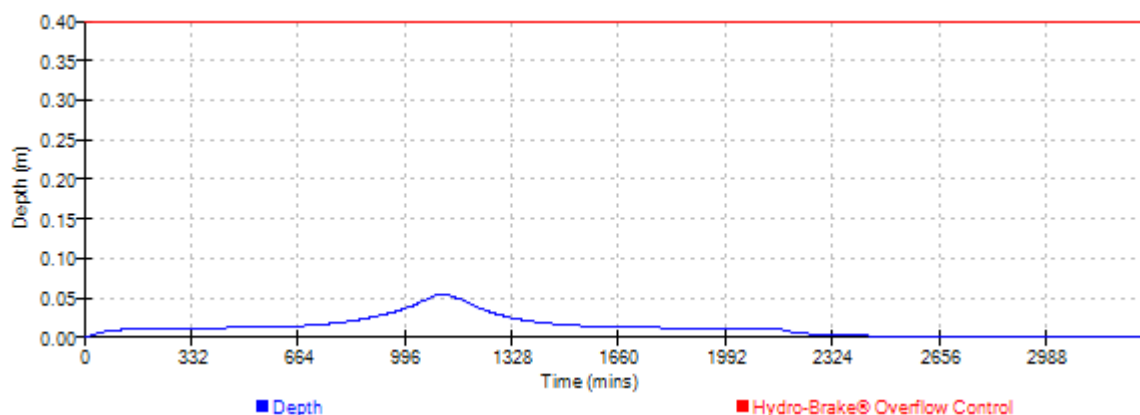
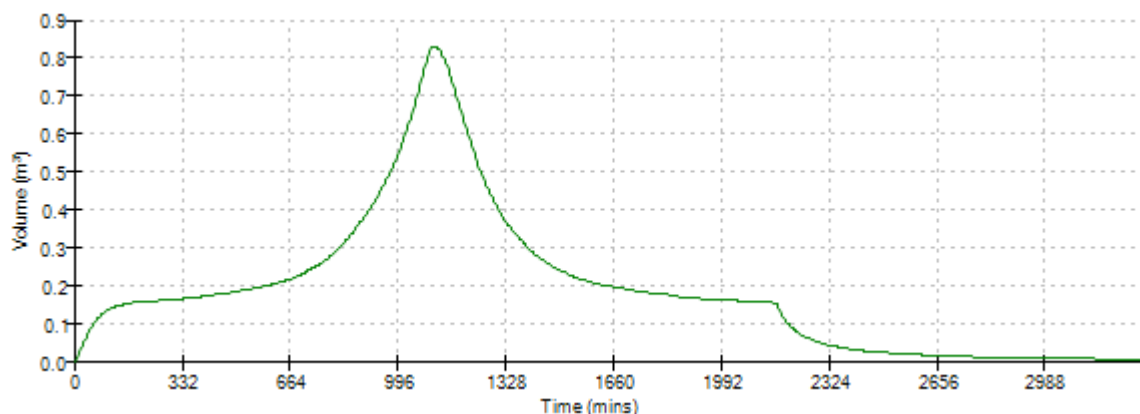
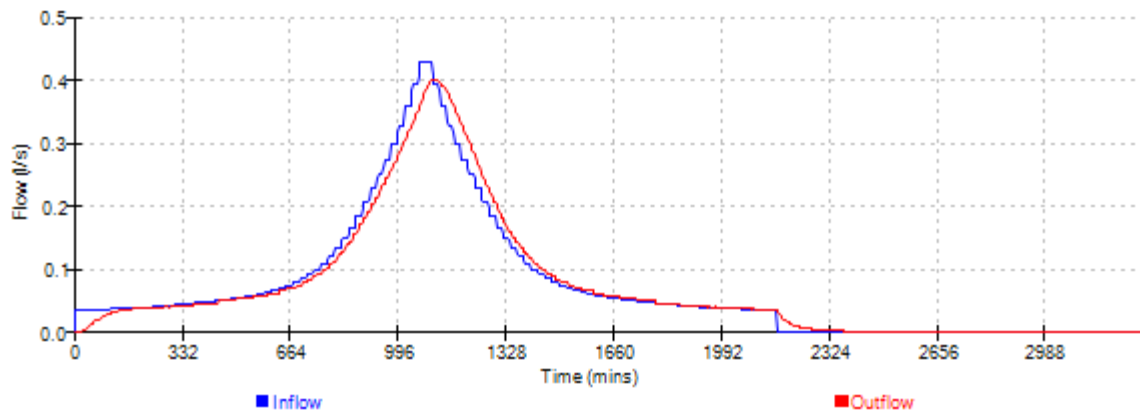
Easy Flood Risk		Page 17
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Summer



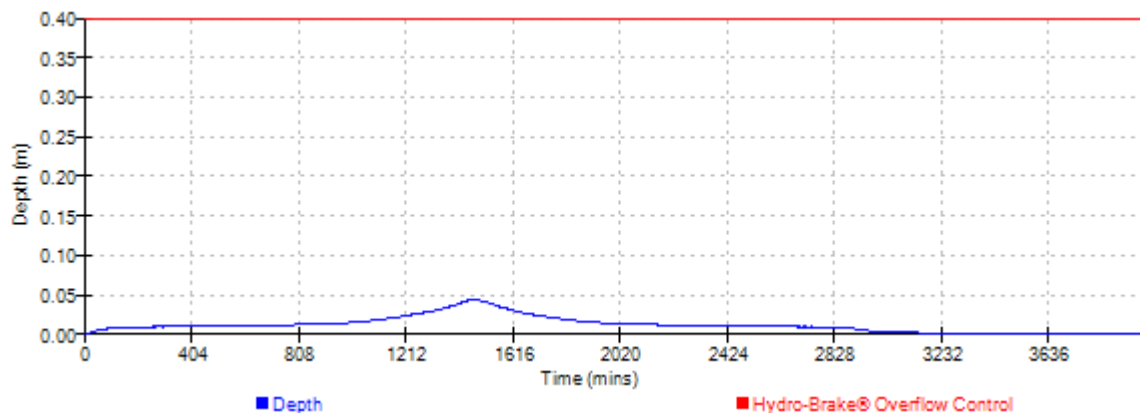
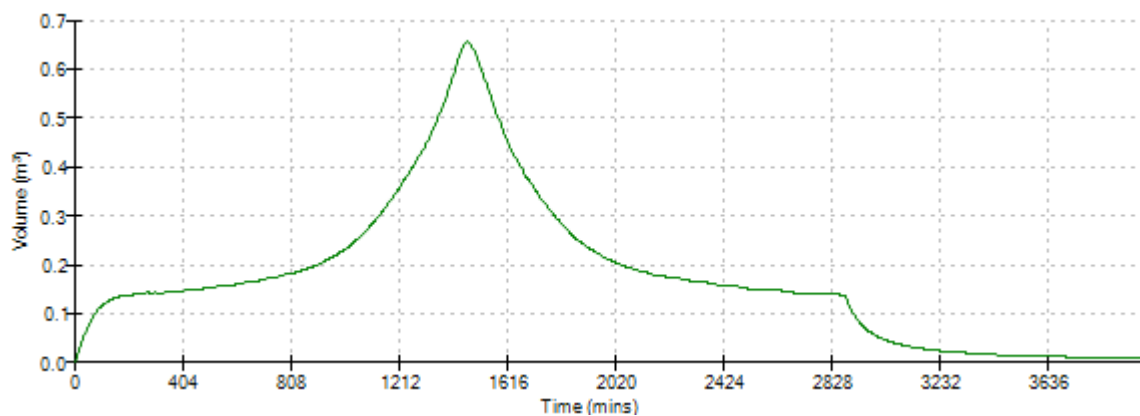
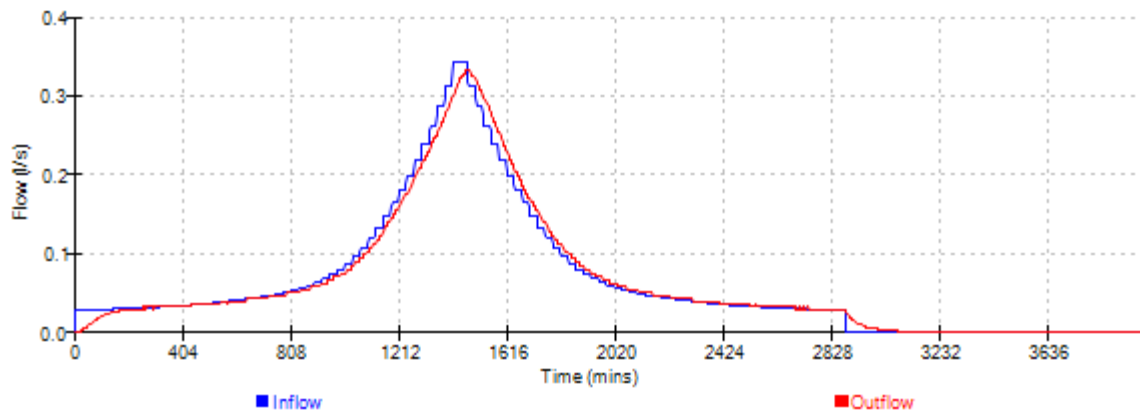
Easy Flood Risk		Page 18
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Summer



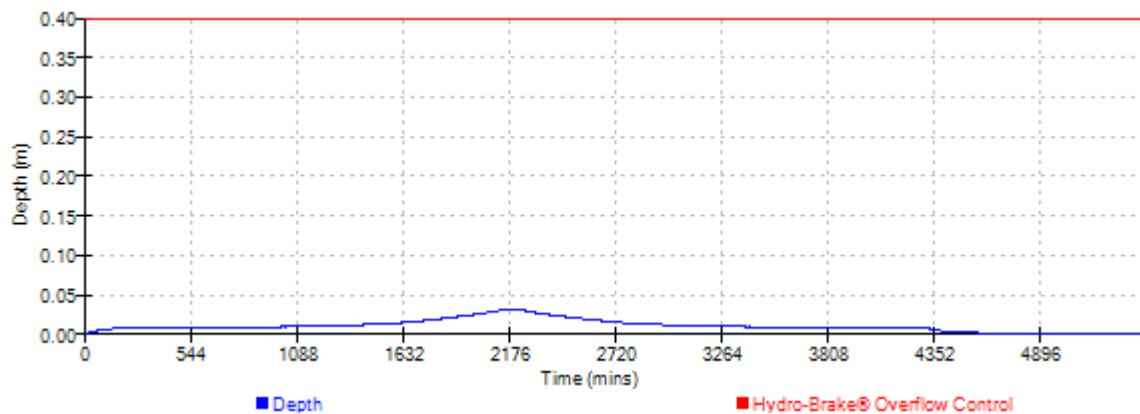
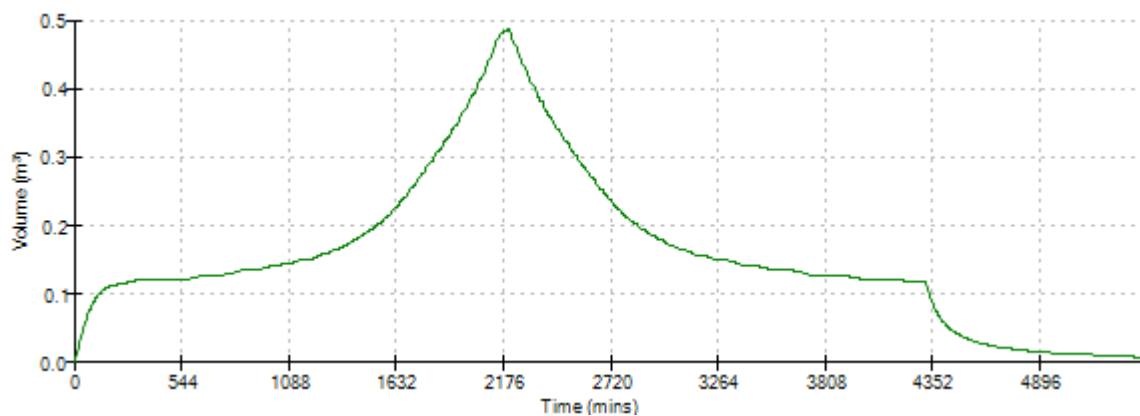
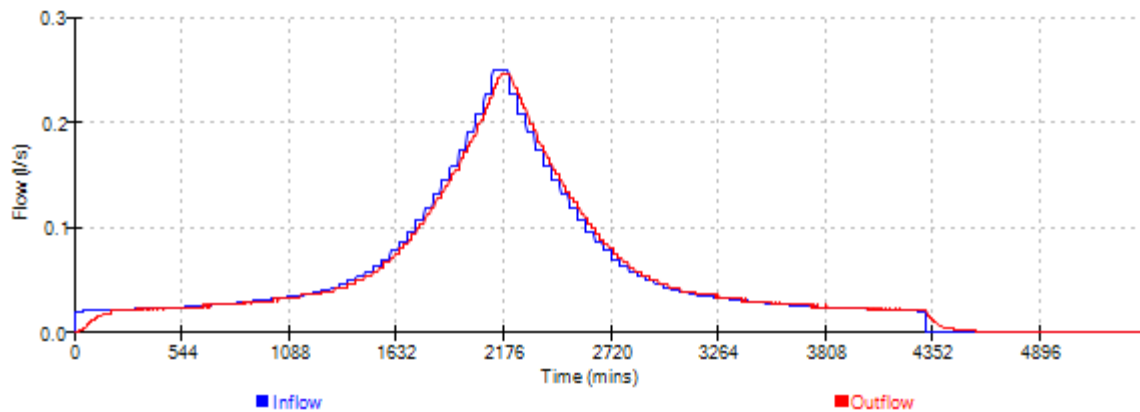
Easy Flood Risk		Page 19
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Summer



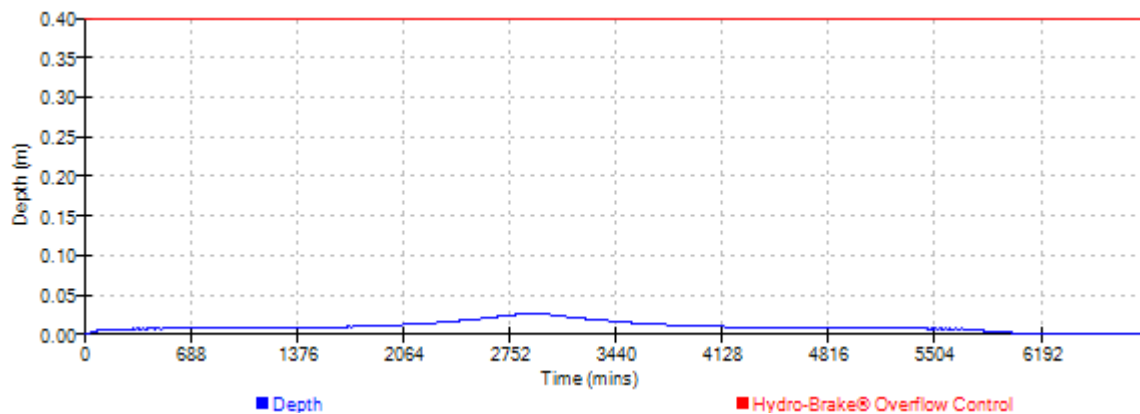
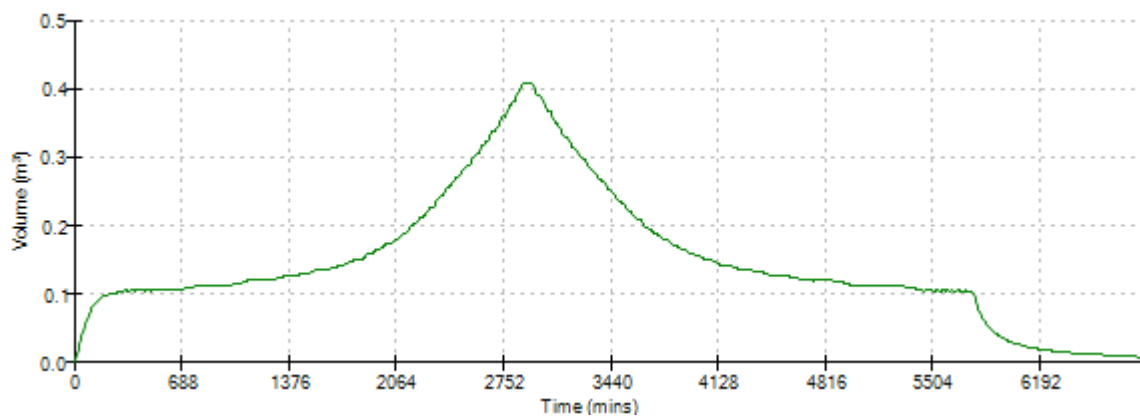
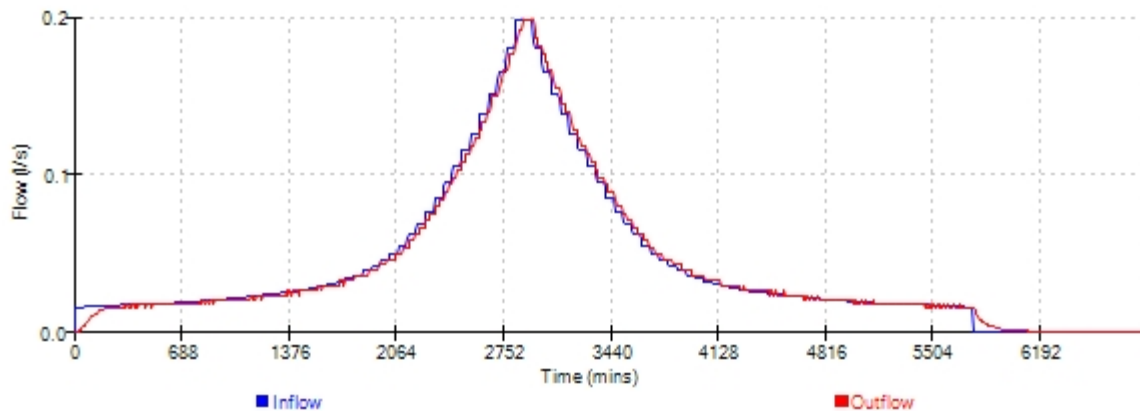
Easy Flood Risk		Page 20
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Summer



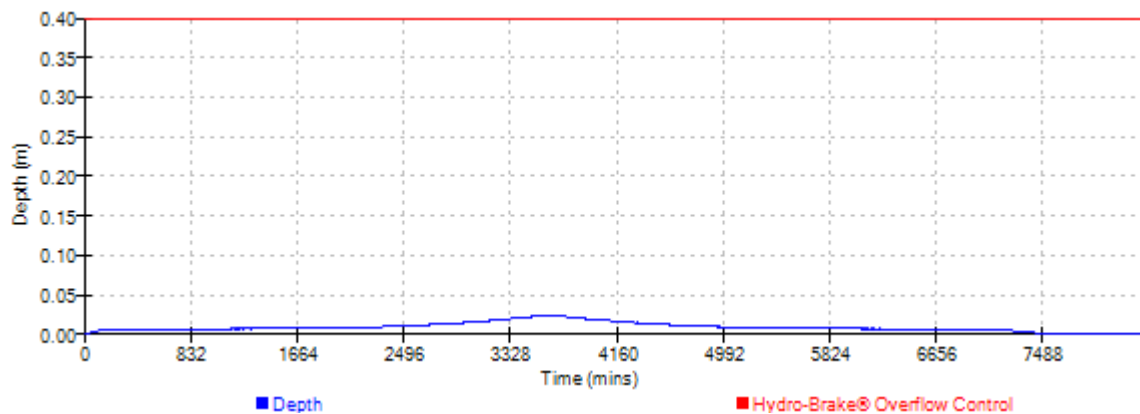
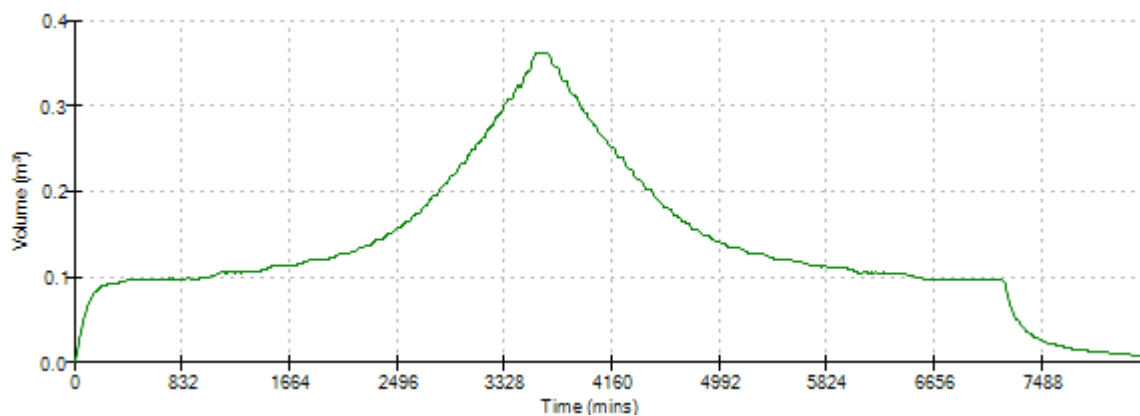
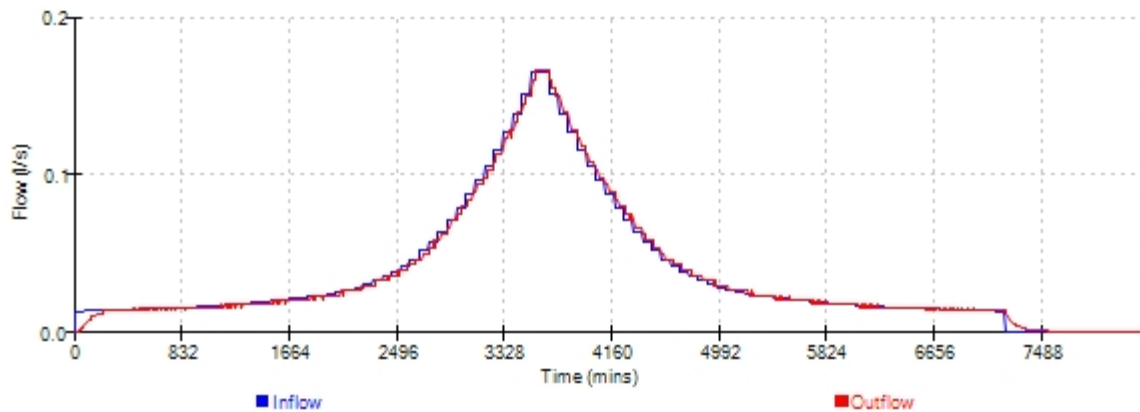
Easy Flood Risk		Page 21
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Summer



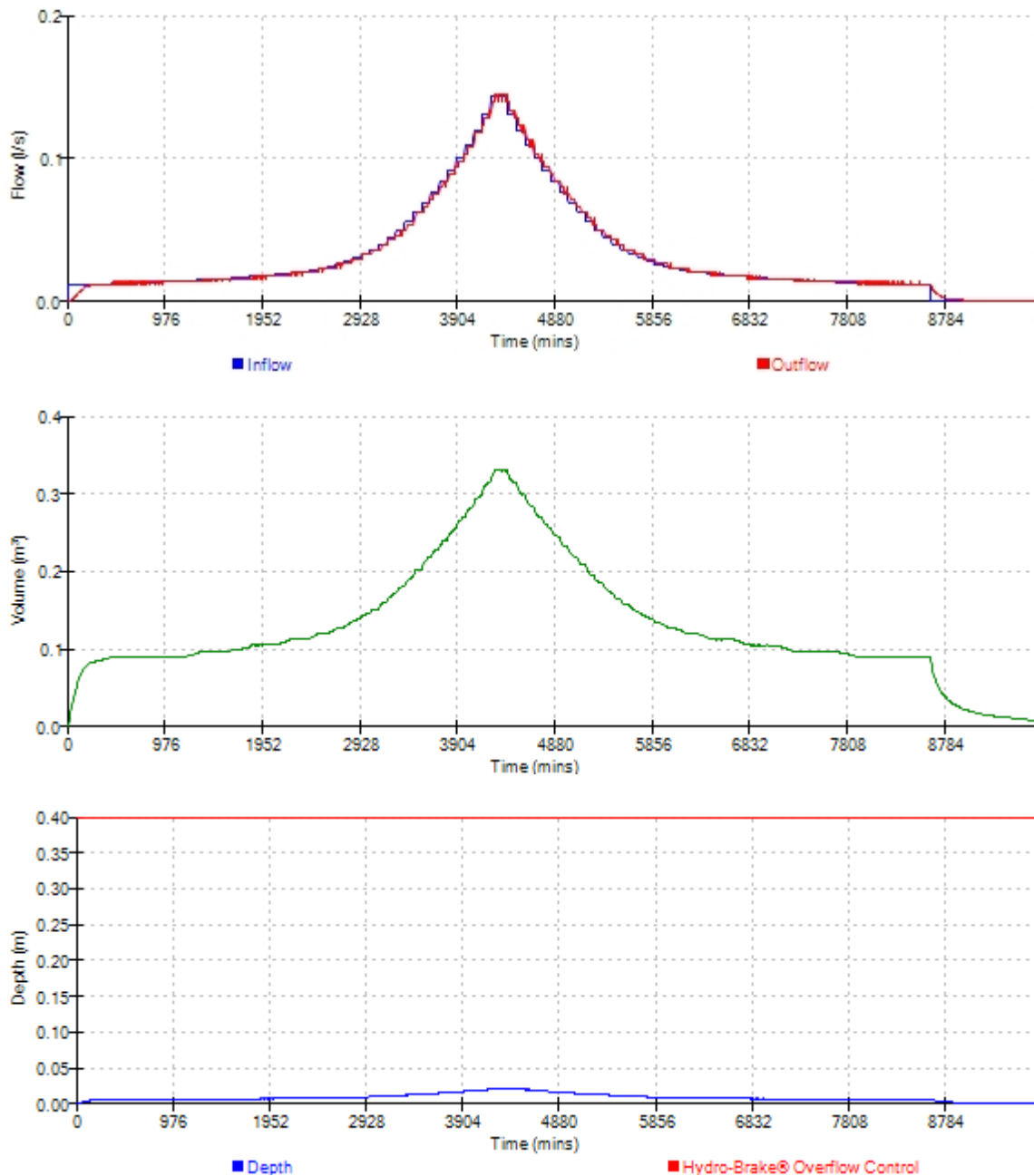
Easy Flood Risk		Page 22
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Summer



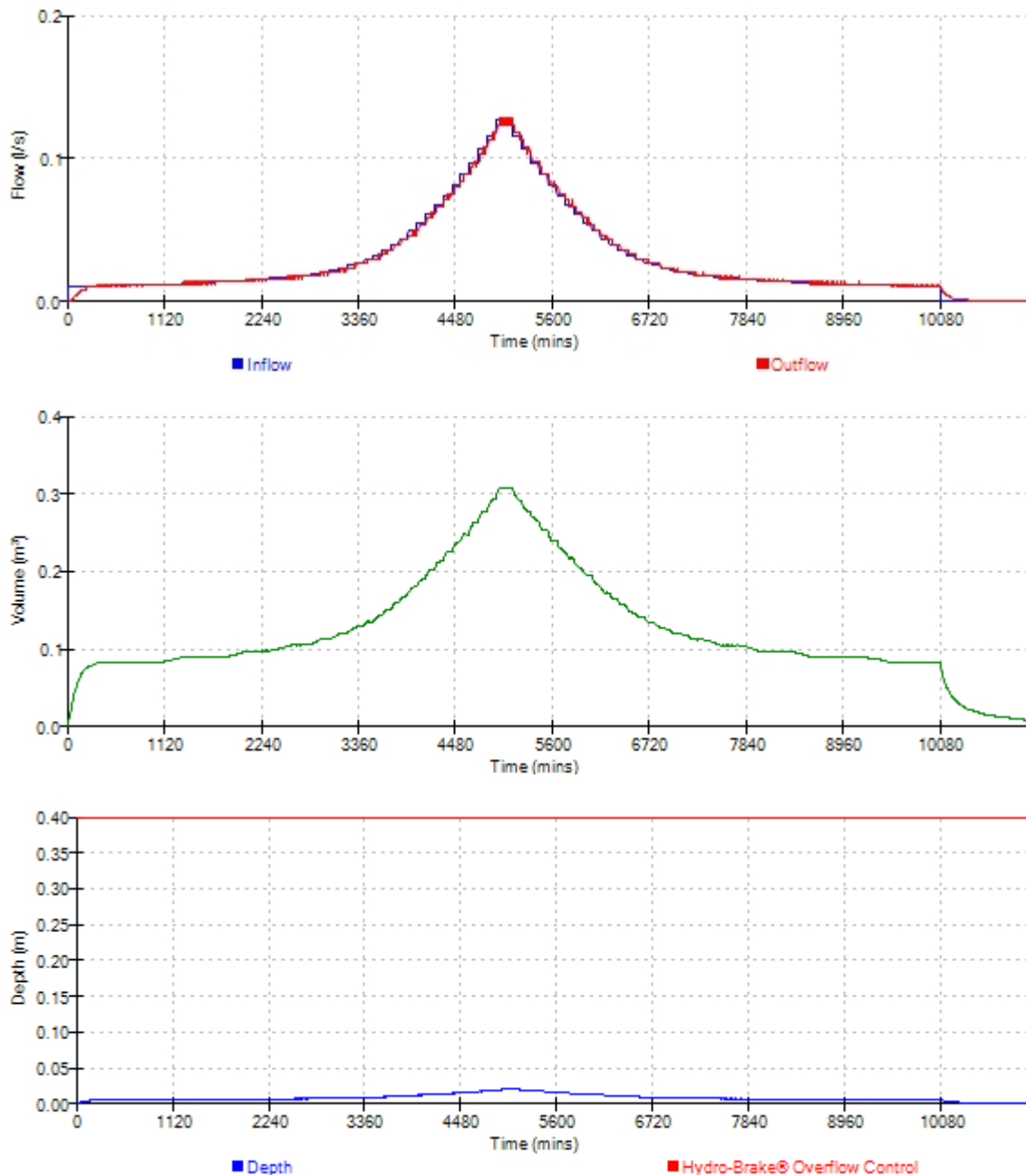
Easy Flood Risk		Page 23
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 8640 min Summer



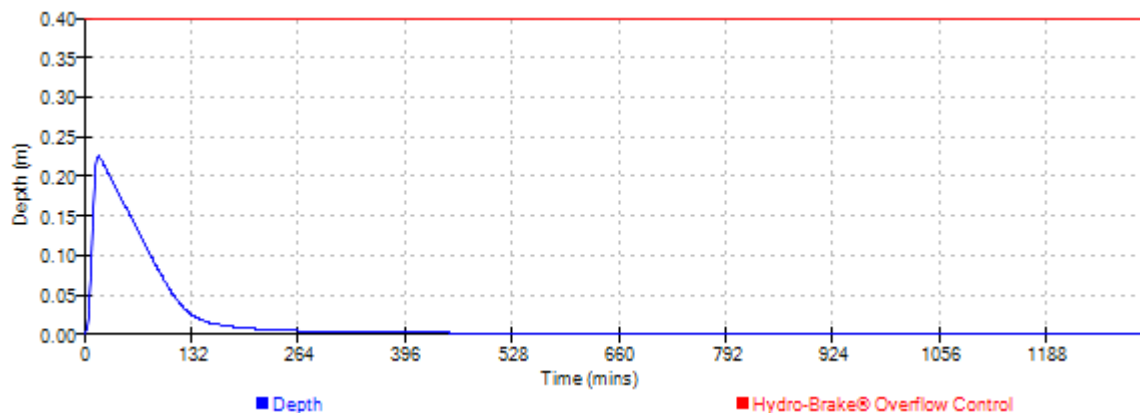
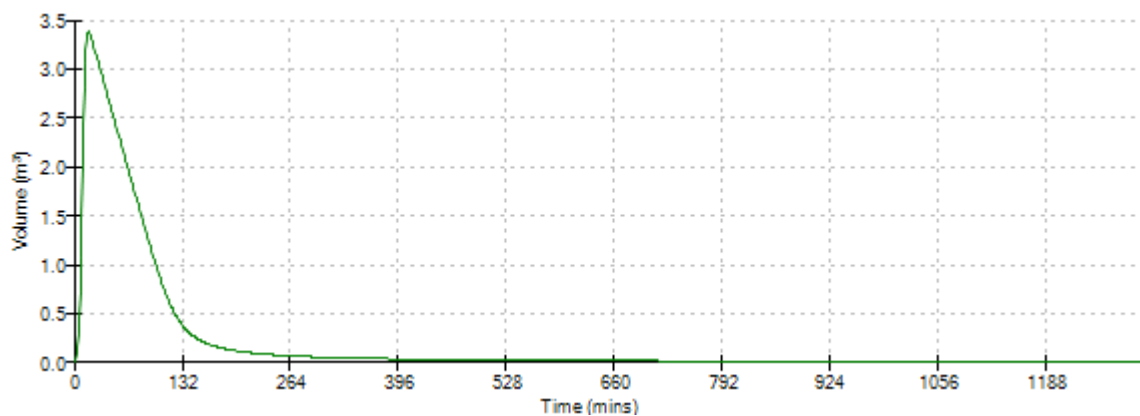
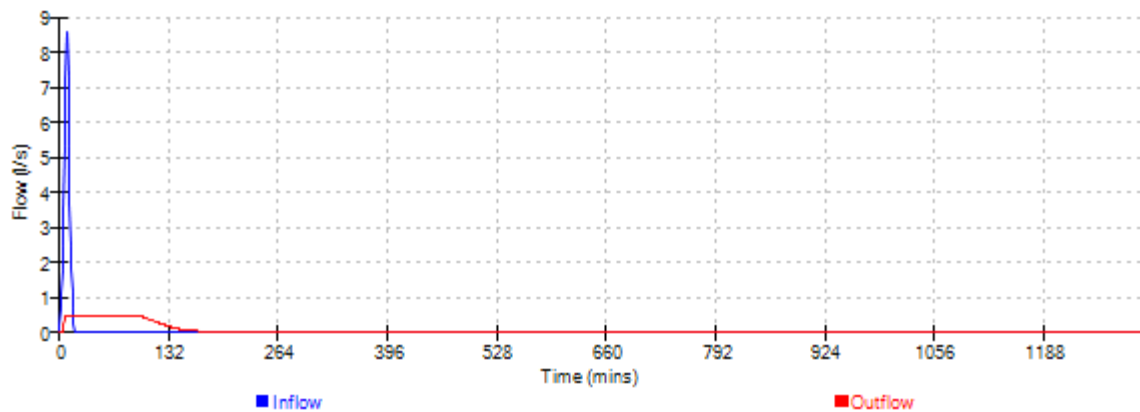
Easy Flood Risk		Page 24
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Summer



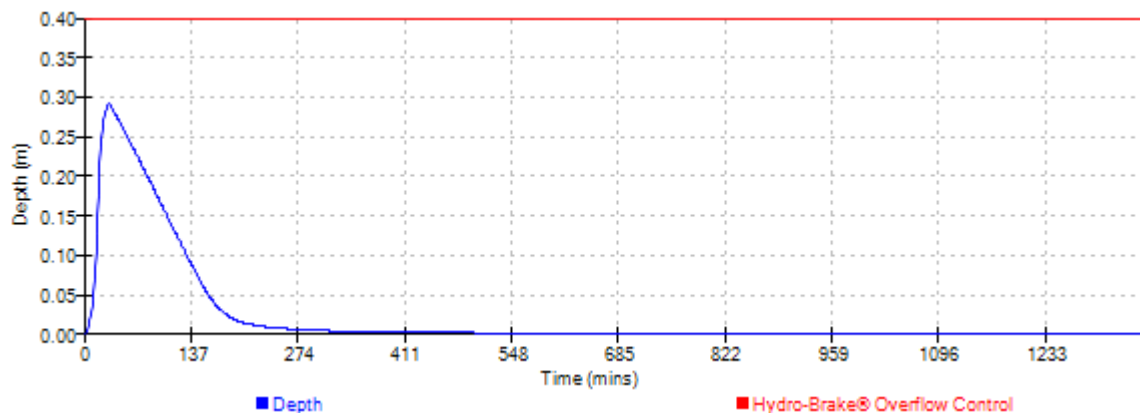
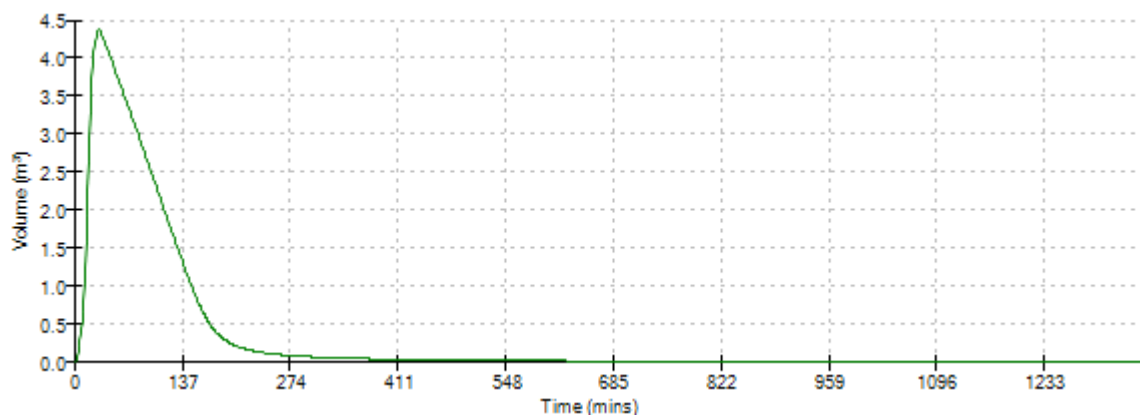
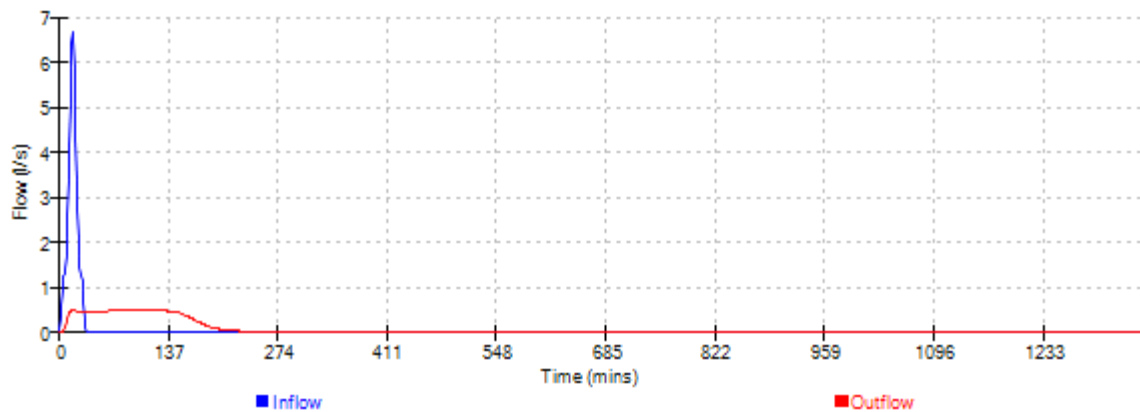
Easy Flood Risk		Page 25
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 15 min Winter



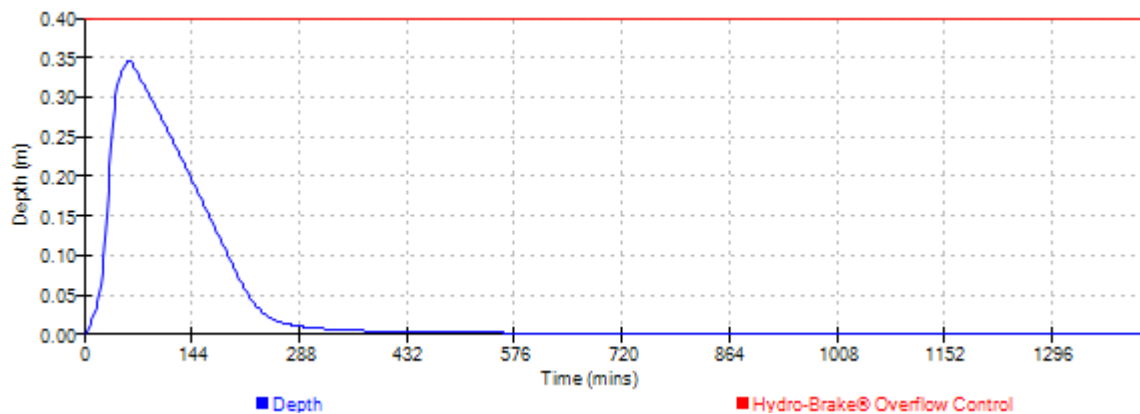
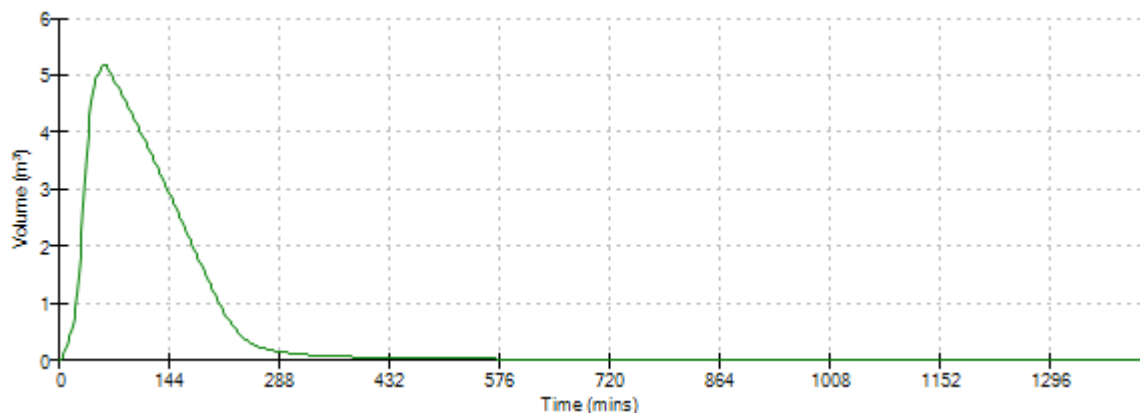
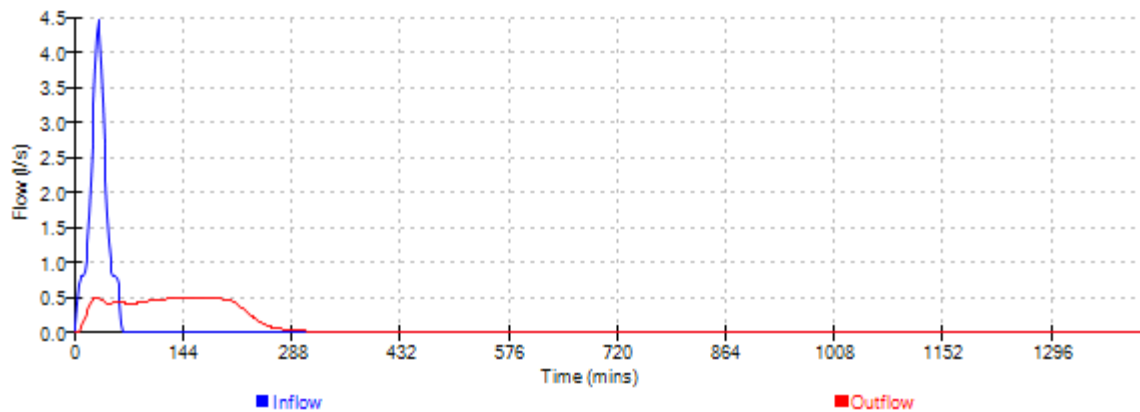
Easy Flood Risk		Page 26
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 30 min Winter



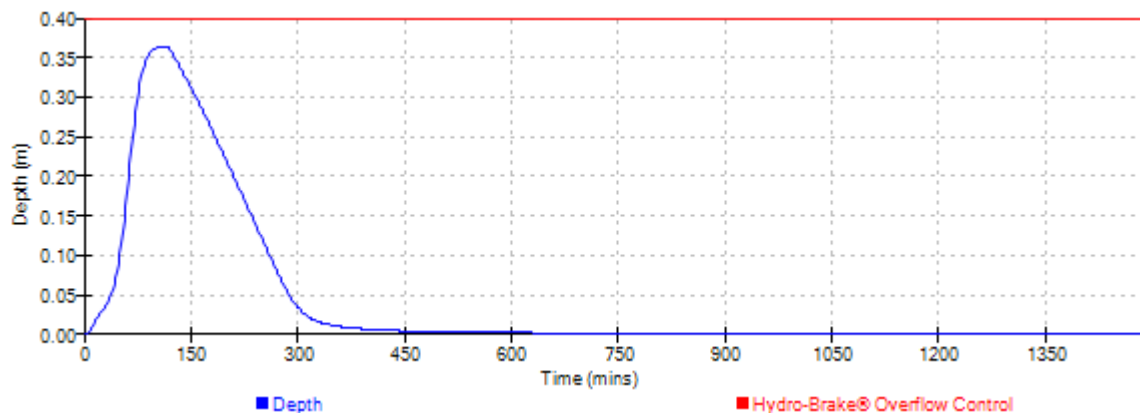
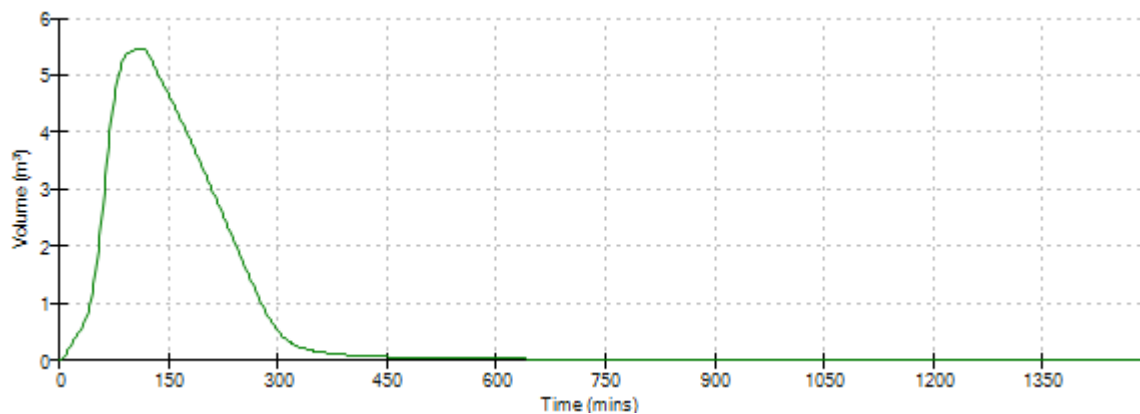
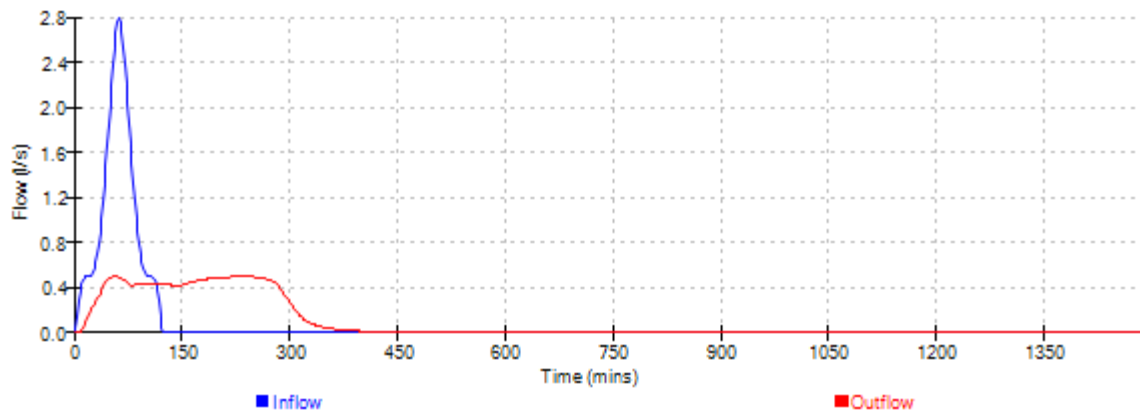
Easy Flood Risk		Page 27
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 60 min Winter



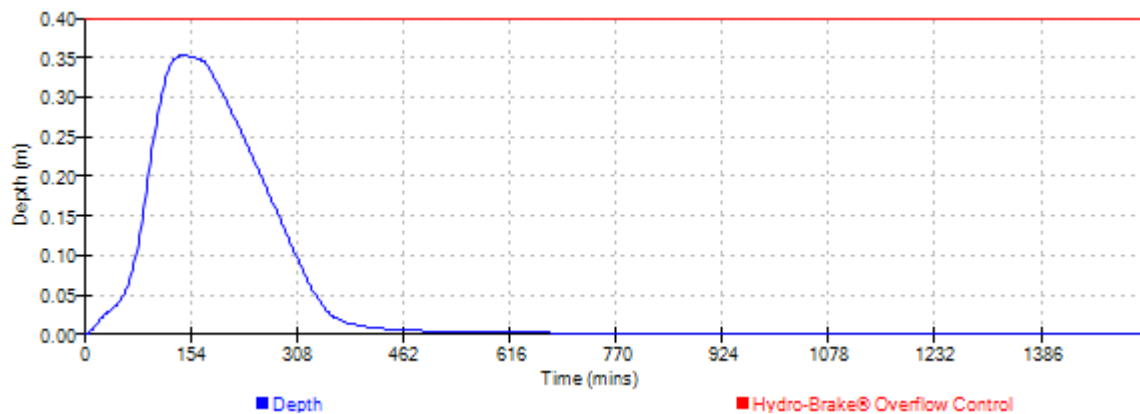
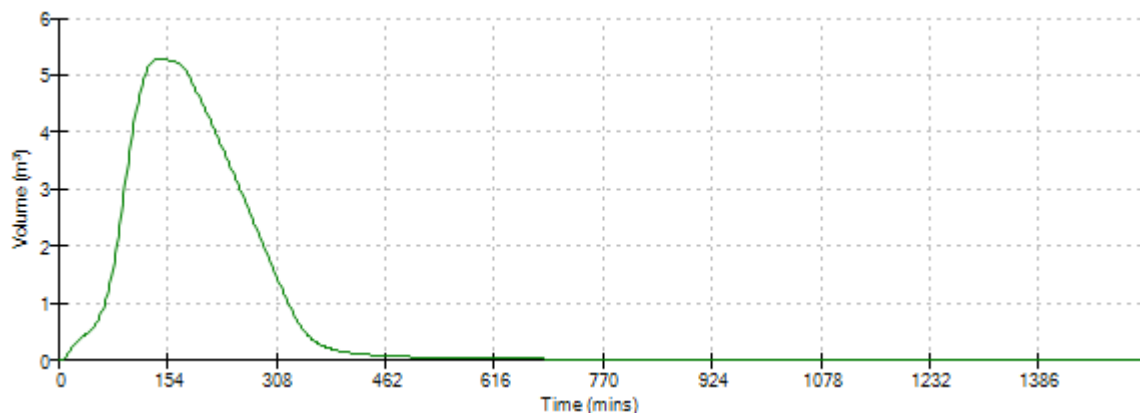
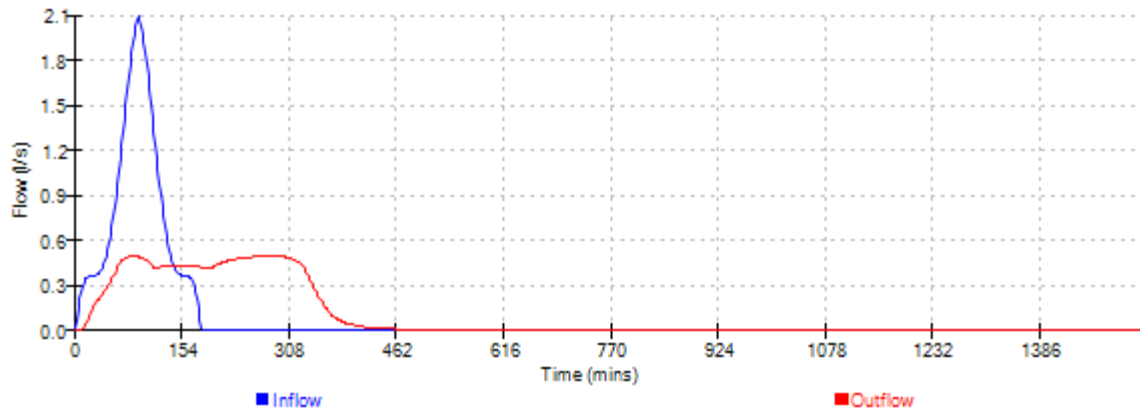
Easy Flood Risk		Page 28
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 120 min Winter



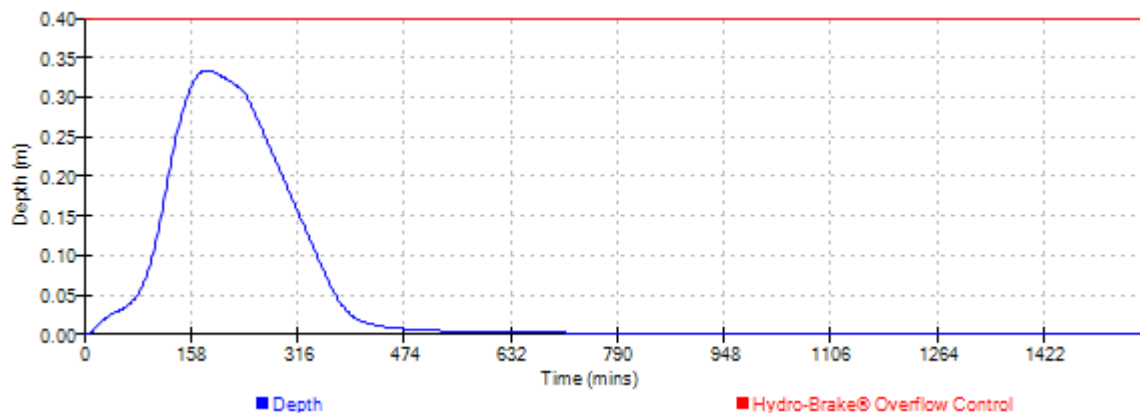
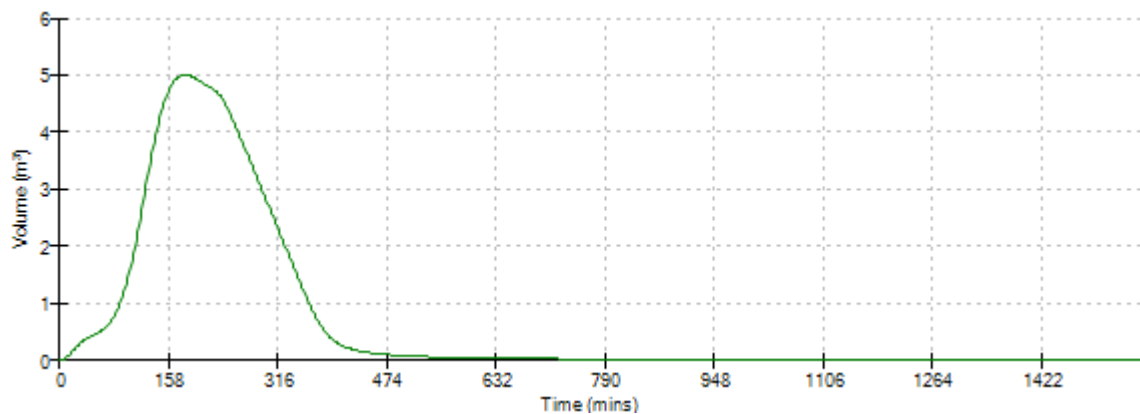
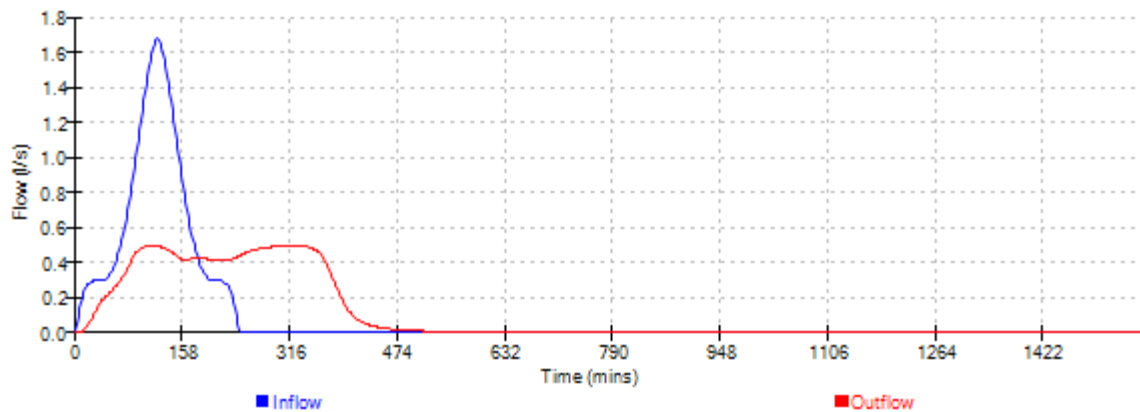
Easy Flood Risk		Page 29
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 180 min Winter



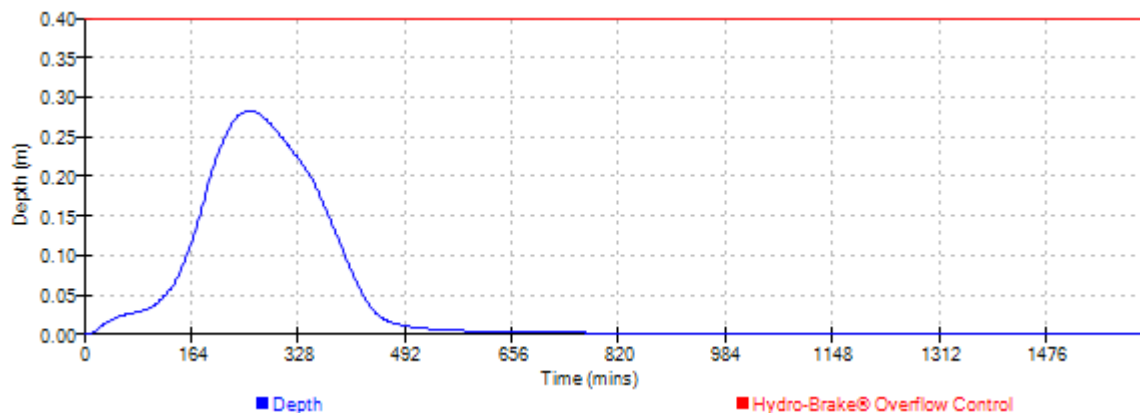
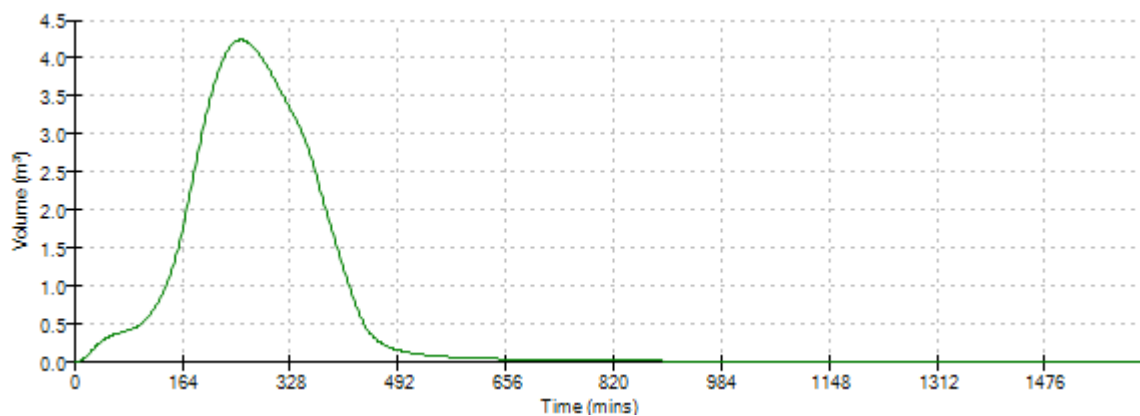
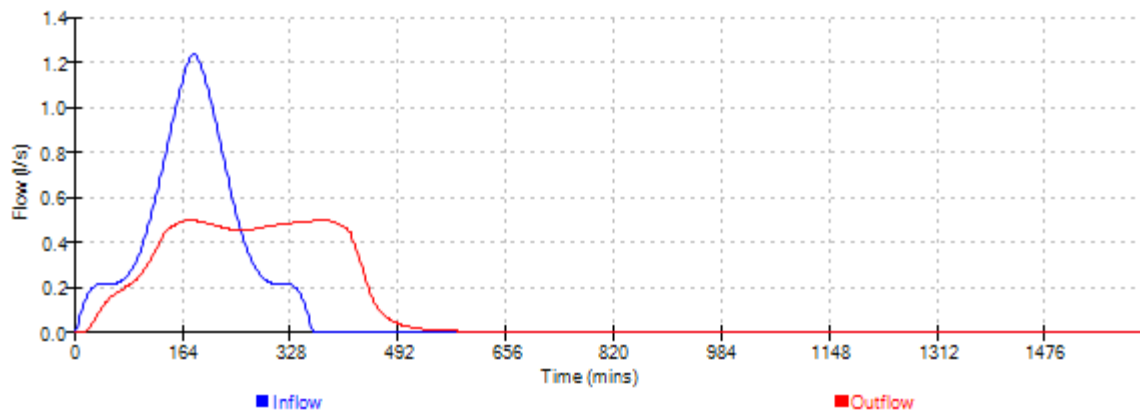
Easy Flood Risk		Page 30
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 240 min Winter



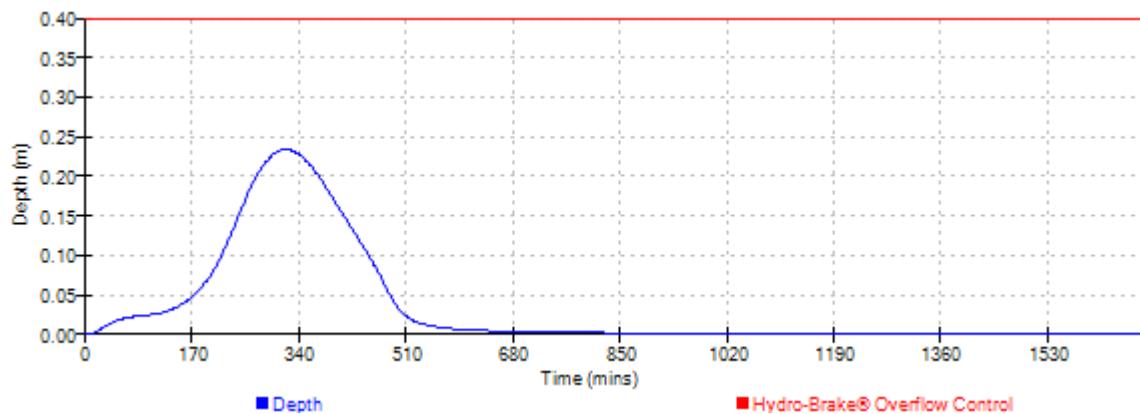
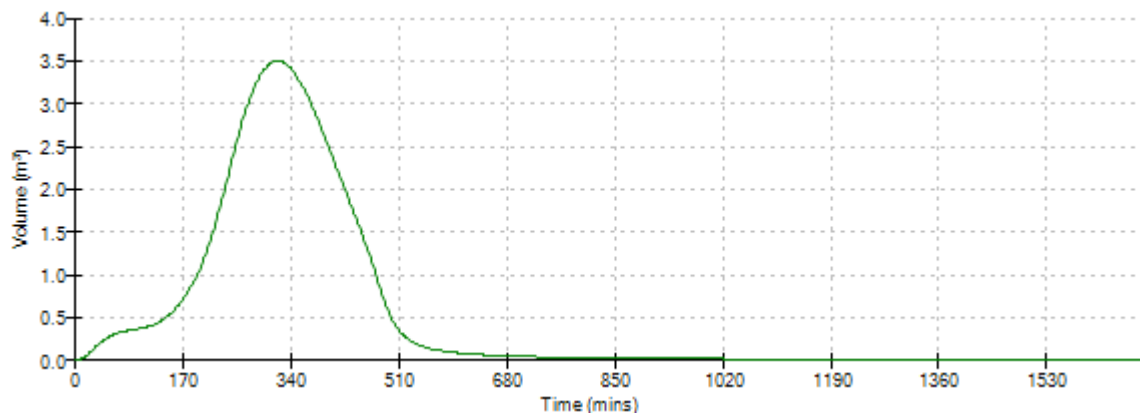
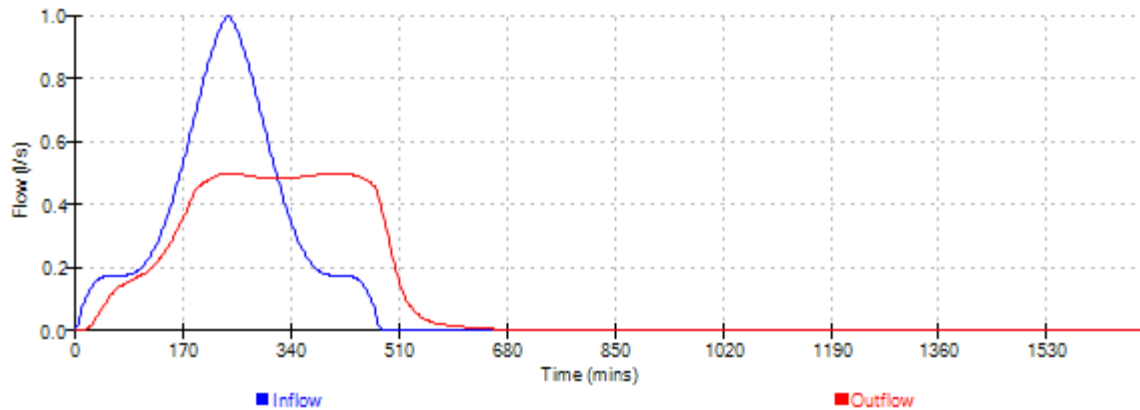
Easy Flood Risk		Page 31
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 360 min Winter



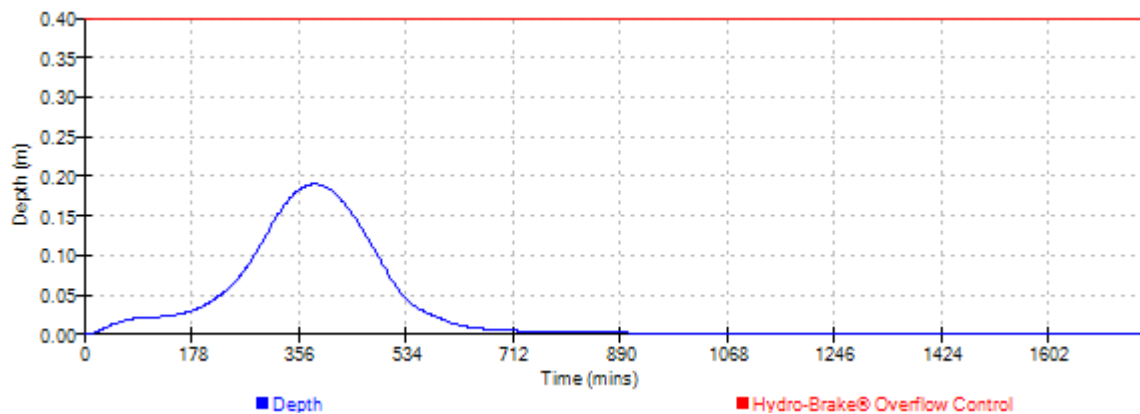
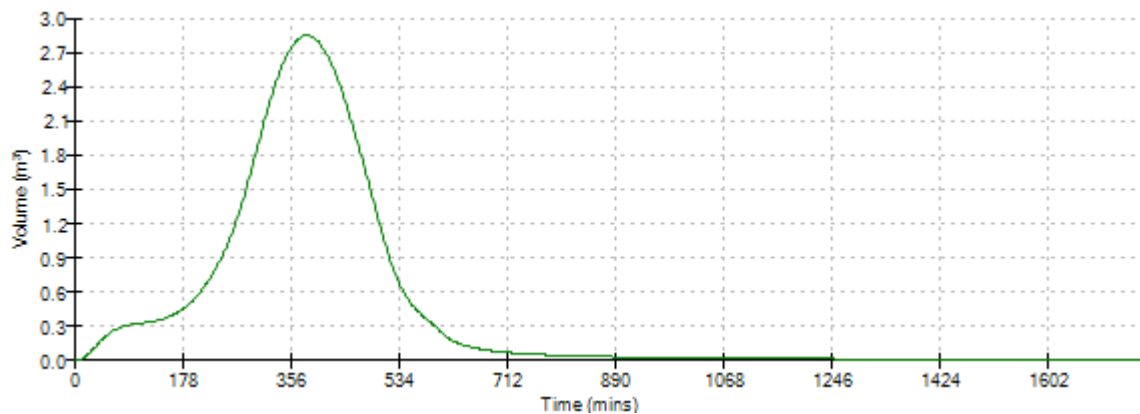
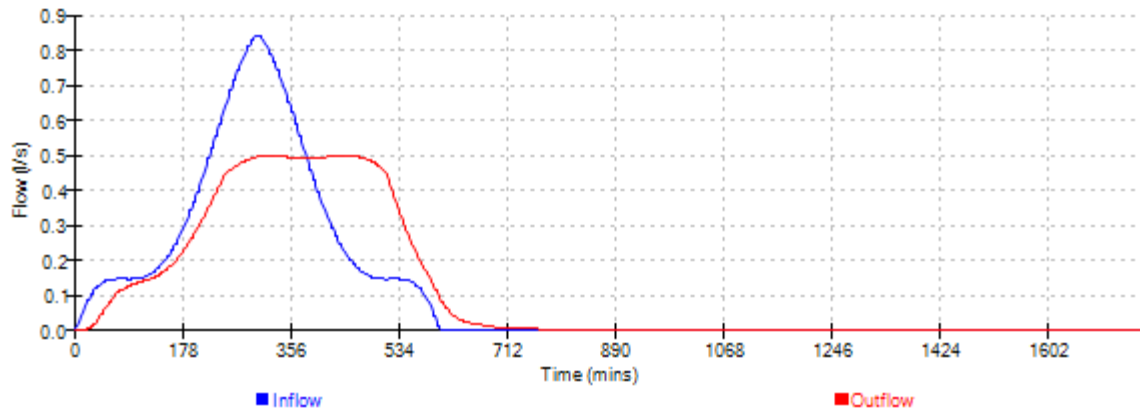
Easy Flood Risk		Page 32
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 480 min Winter



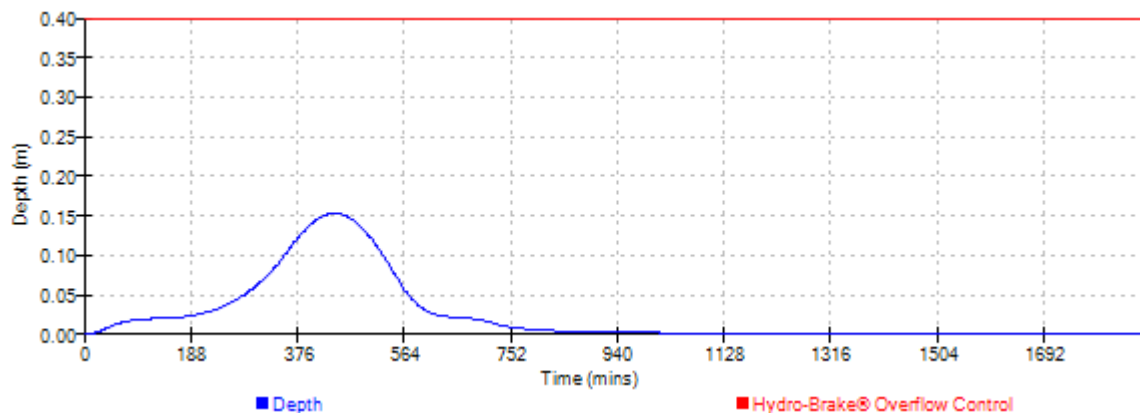
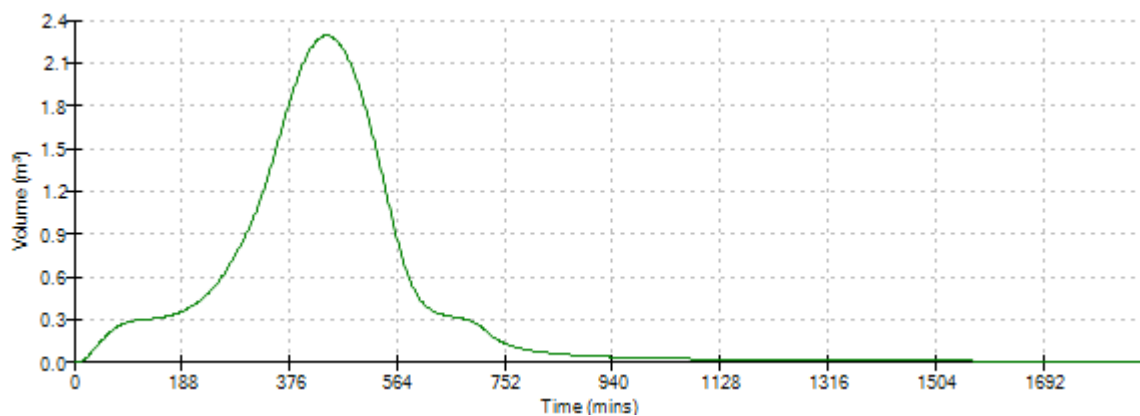
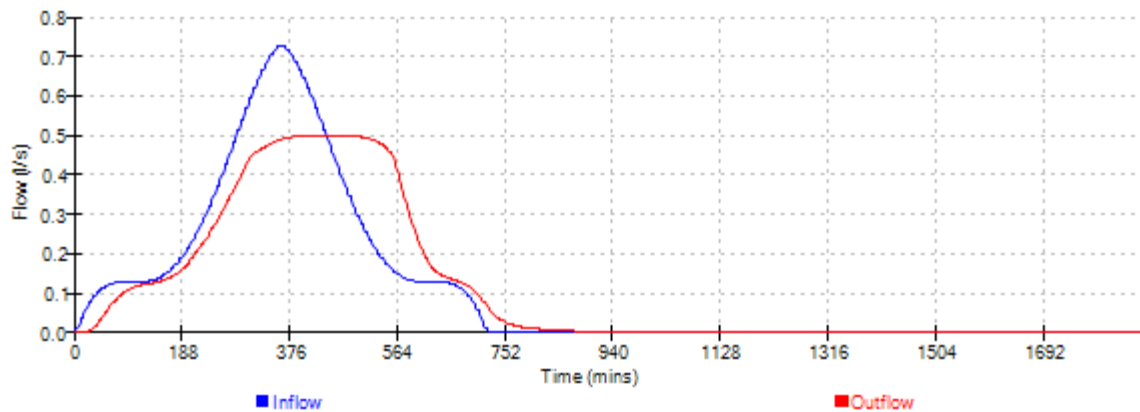
Easy Flood Risk		Page 33
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 600 min Winter



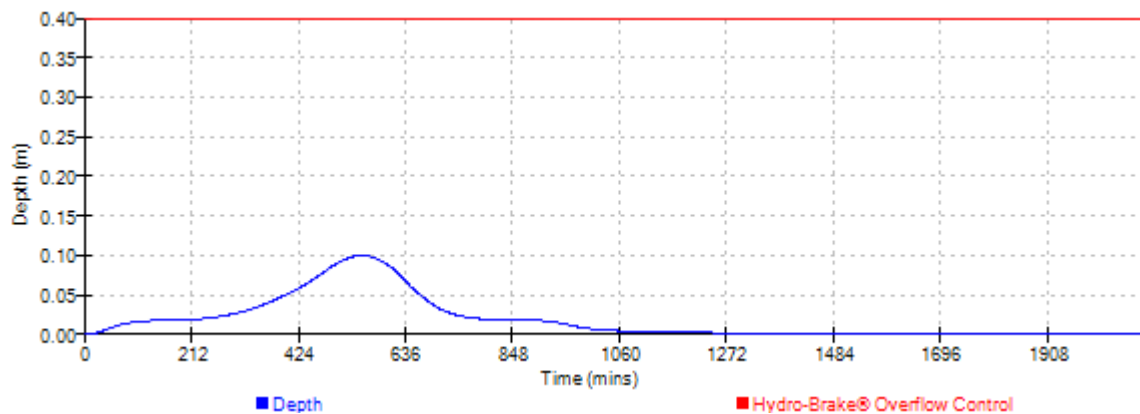
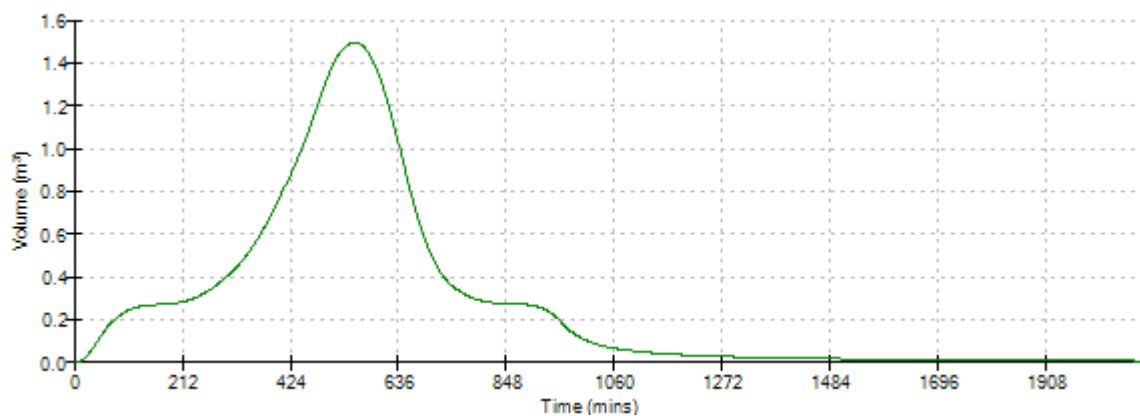
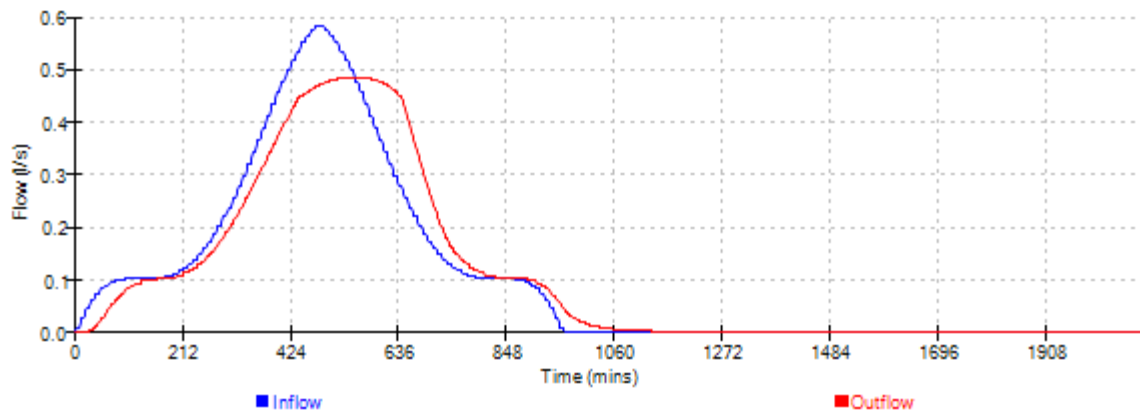
Easy Flood Risk		Page 34
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 720 min Winter



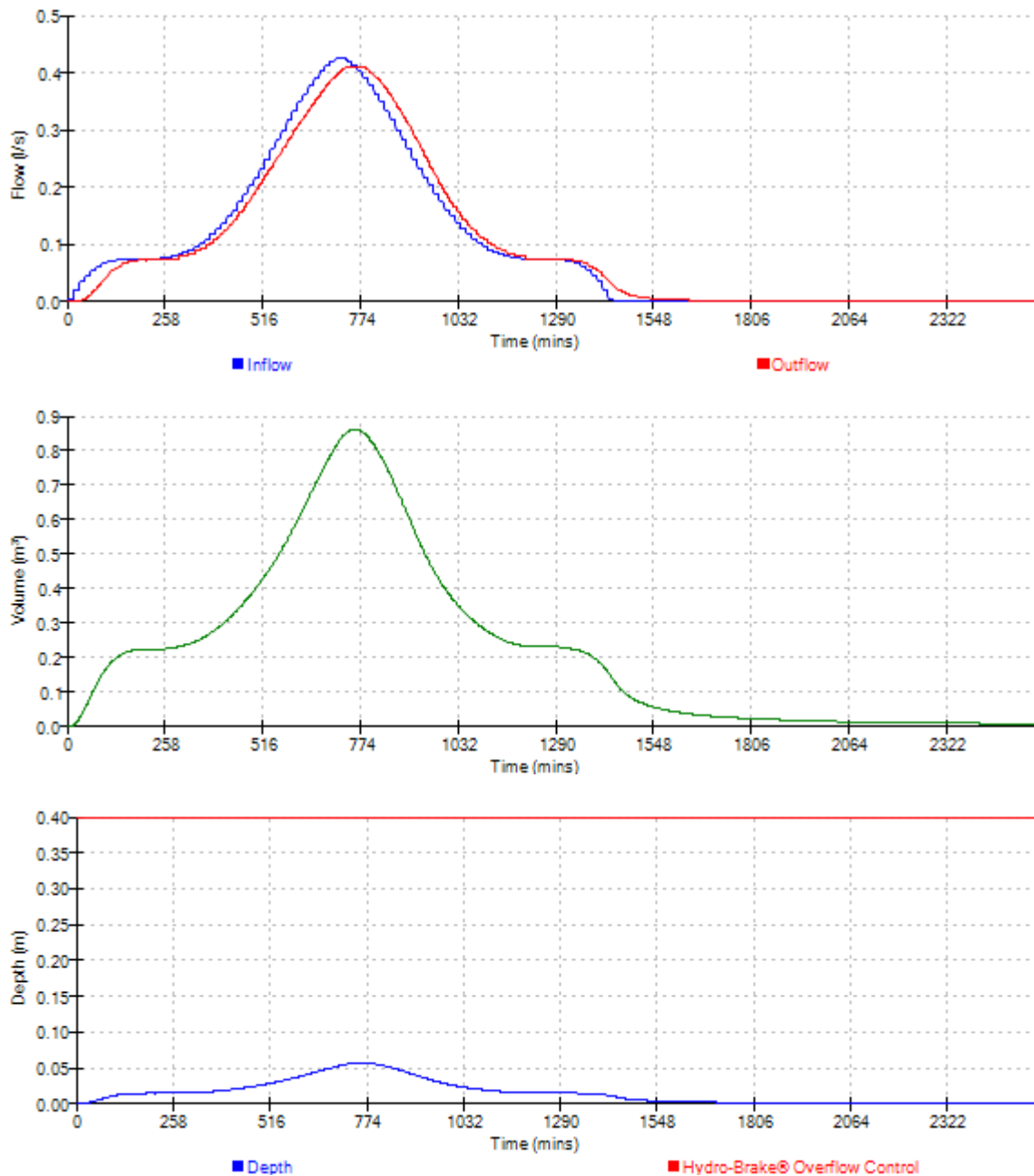
Easy Flood Risk		Page 35
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 960 min Winter



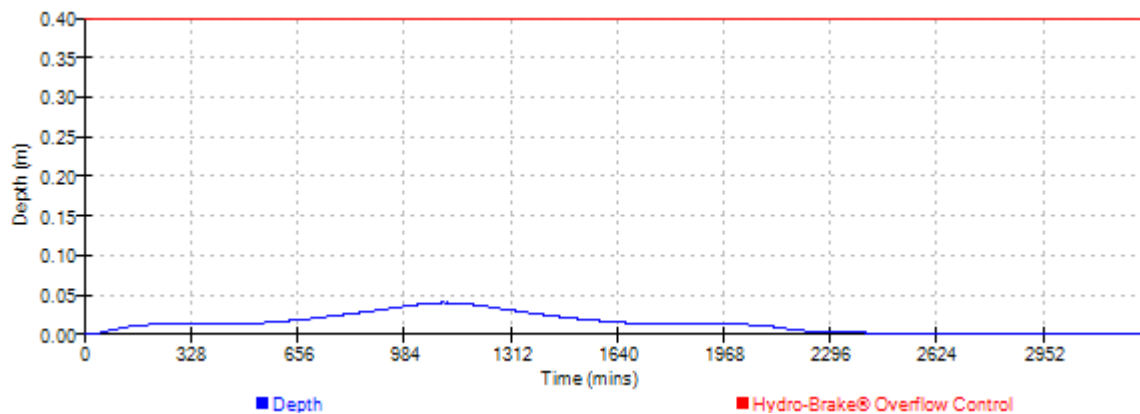
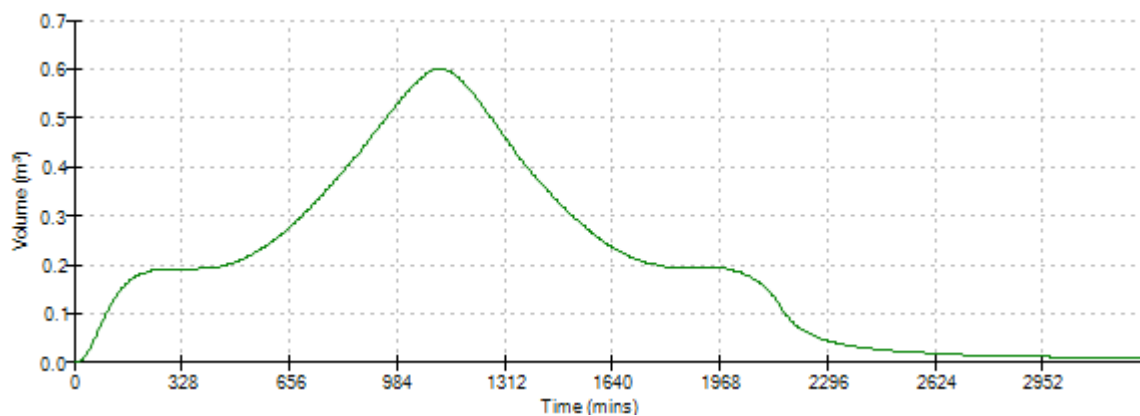
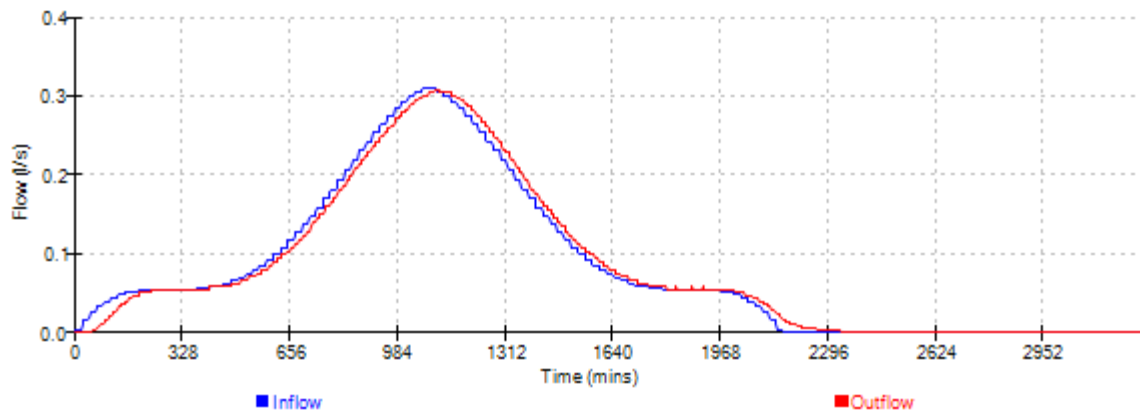
Easy Flood Risk		Page 36
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Winter



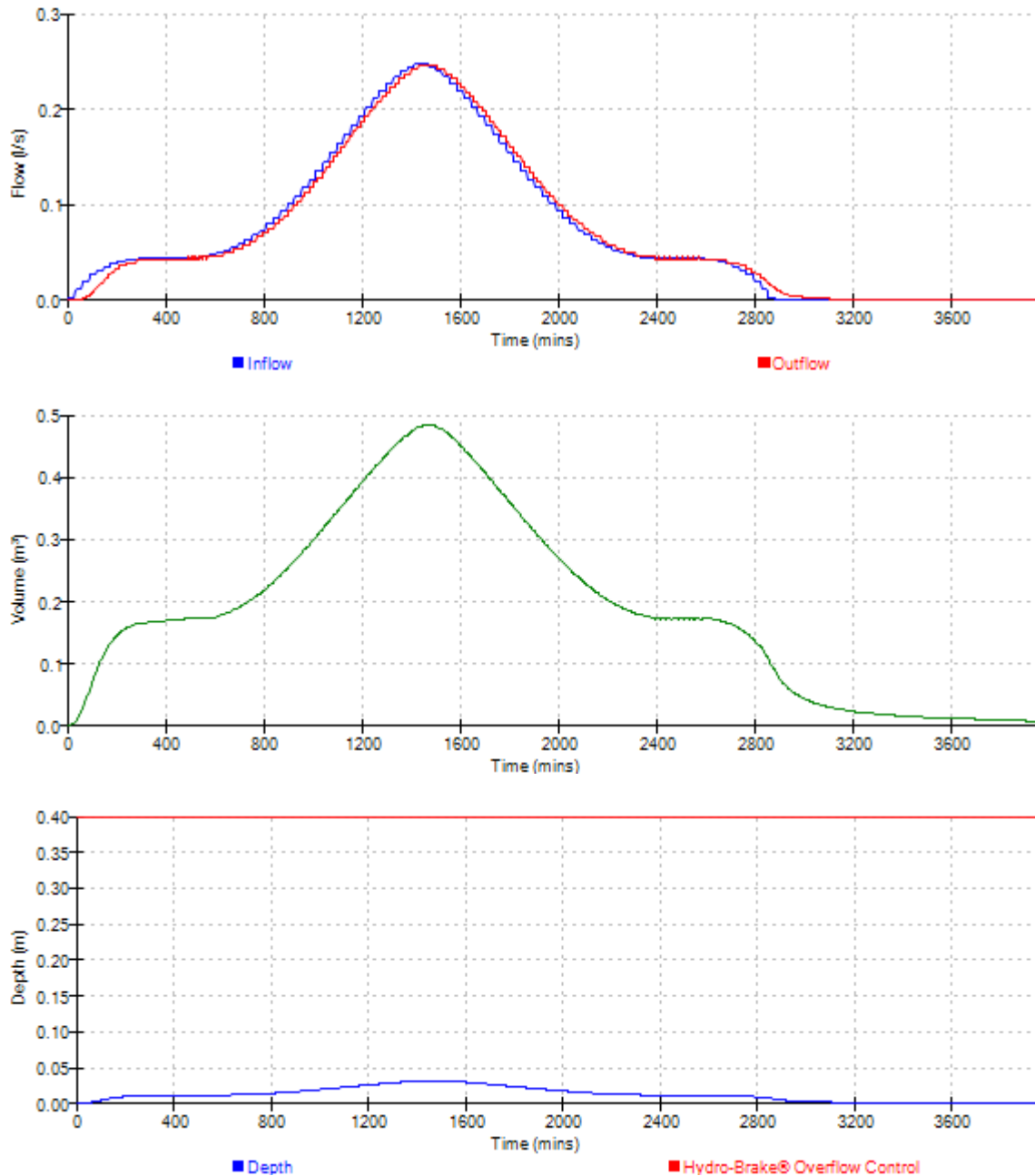
Easy Flood Risk		Page 37
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Winter



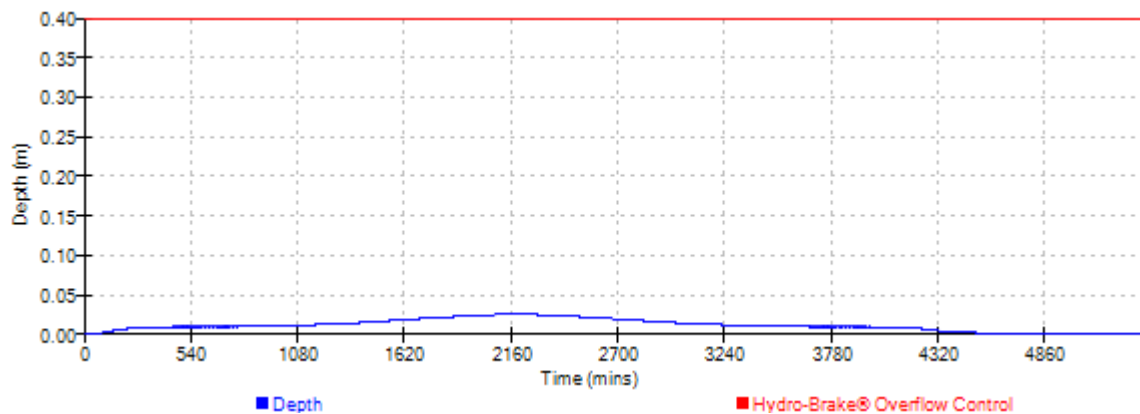
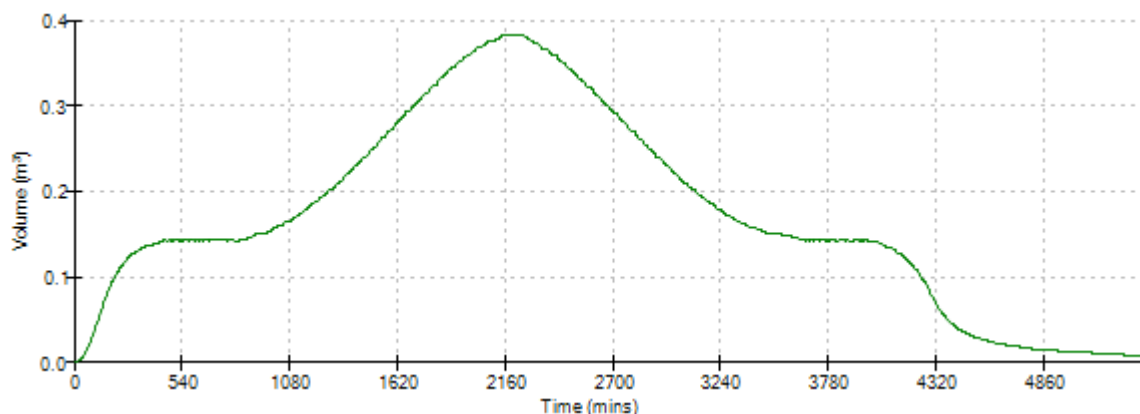
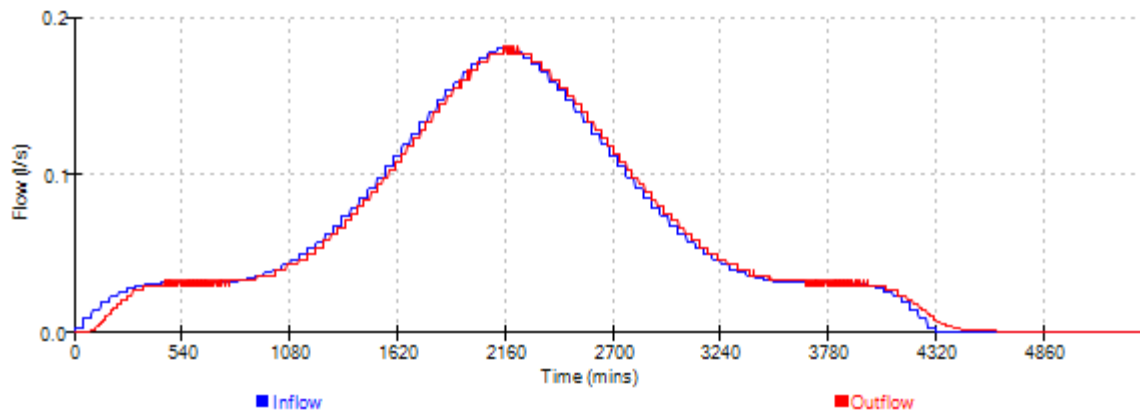
Easy Flood Risk		Page 38
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Winter



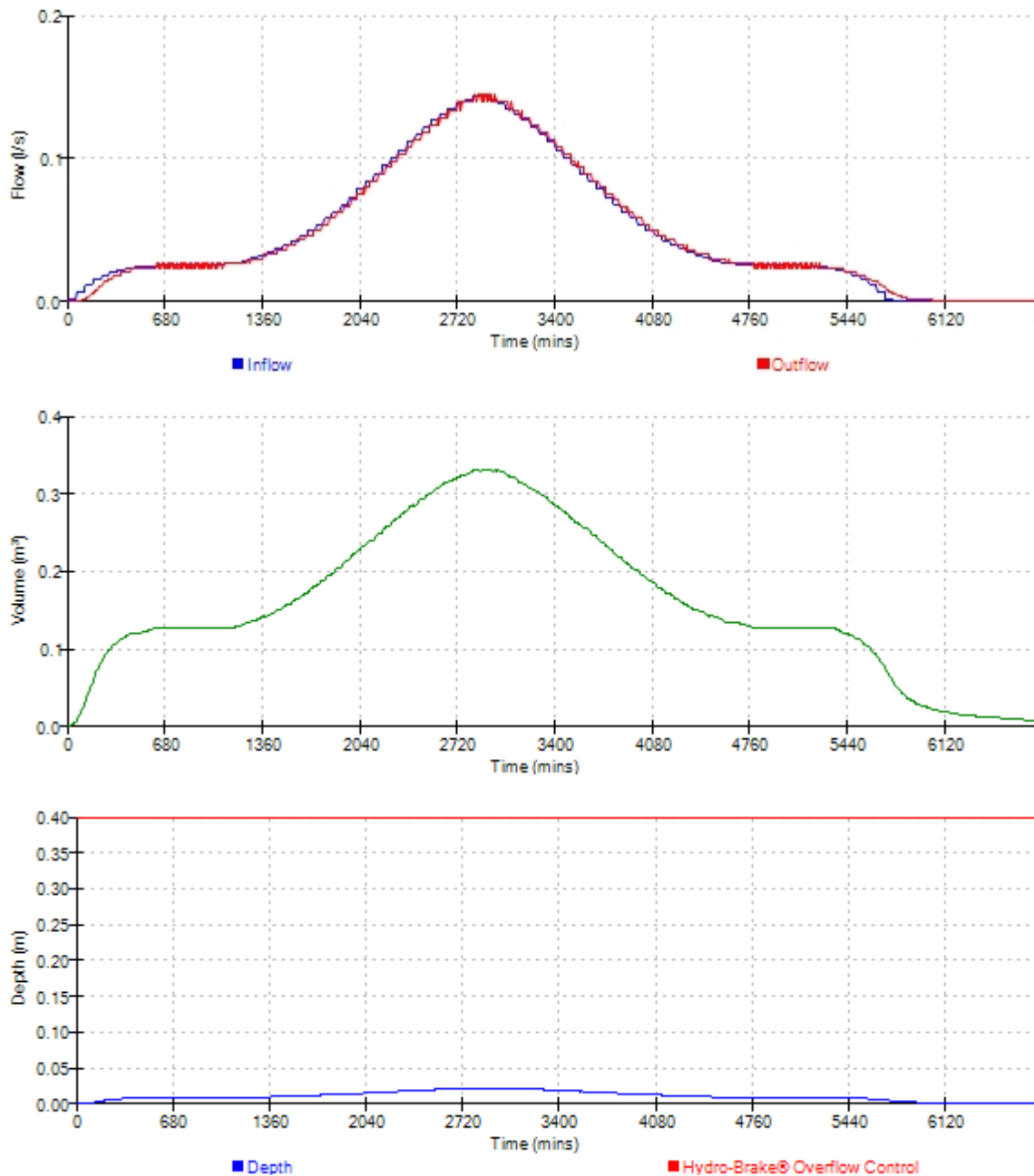
Easy Flood Risk		Page 39
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Winter



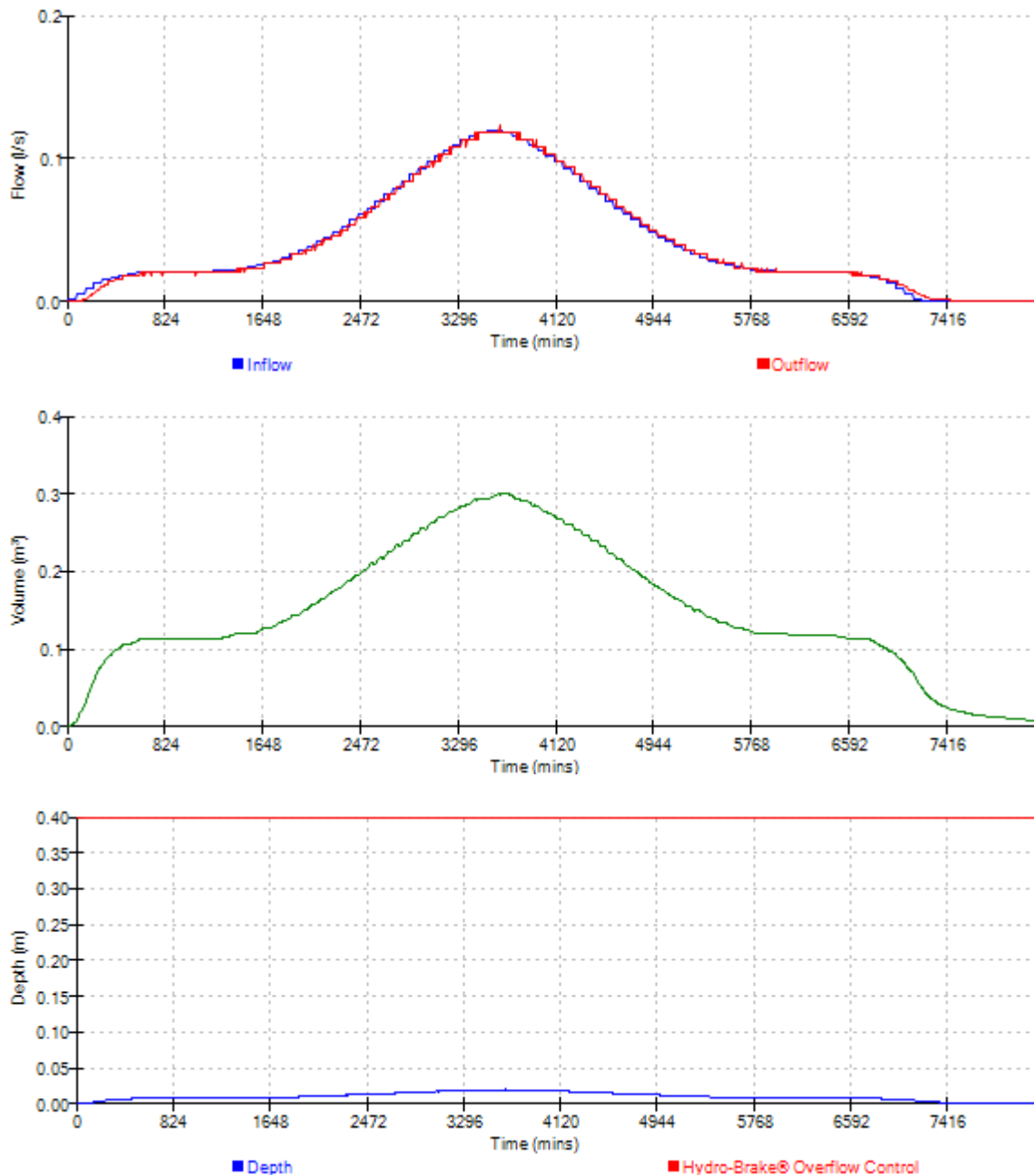
Easy Flood Risk		Page 40
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Winter



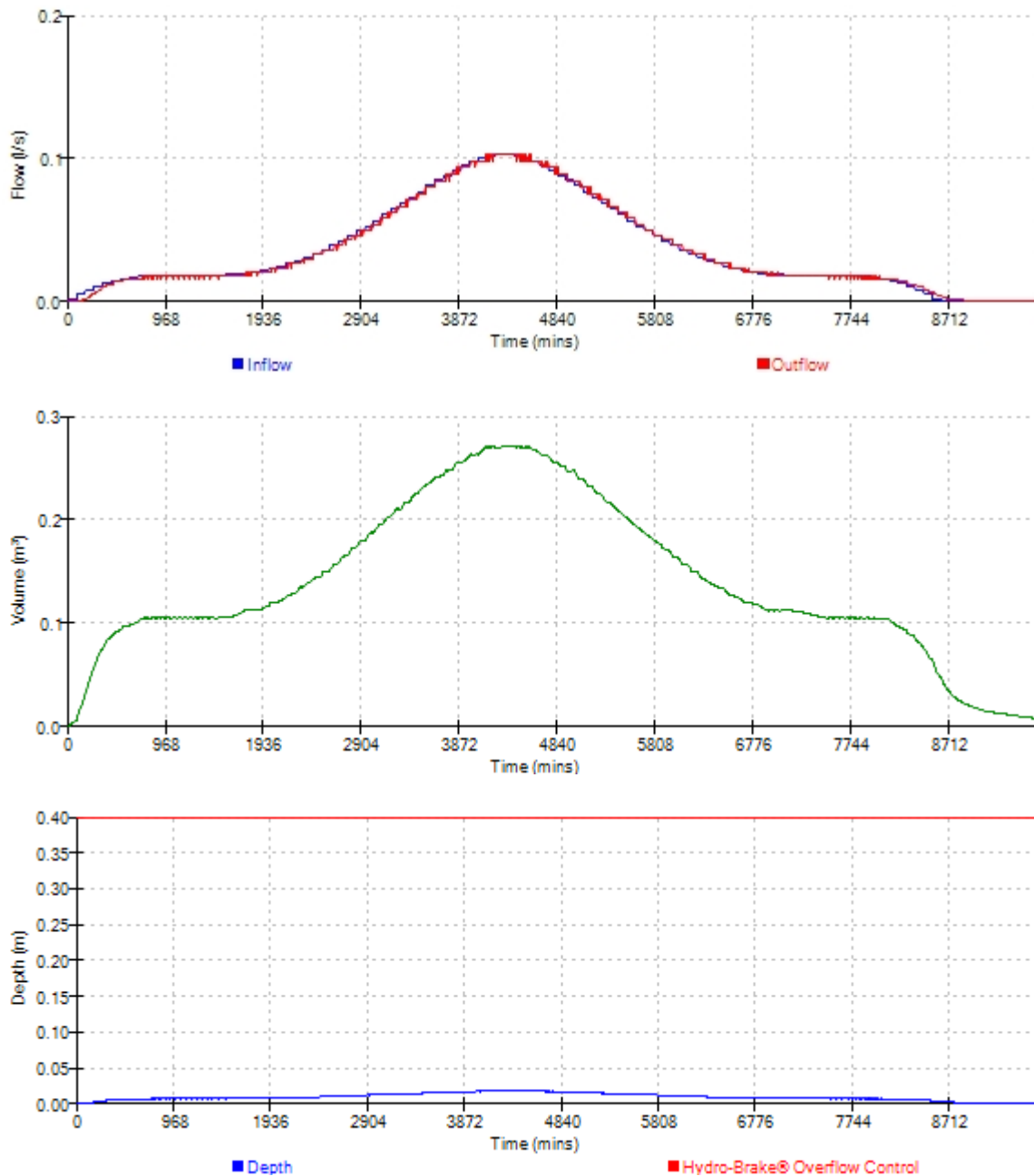
Easy Flood Risk		Page 41
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Winter



Easy Flood Risk		Page 42
55 Shepherds Lane Dartford DA1 2NL		
Date 14/12/2021 13:54 File 49Warren.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 14/12/2021 13:54 File 49Warren.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Winter

