

Appendix O Rainfall Runoff Modelling Summary 1 in 100 Year event

Easy Flood Risk							Page 1
55 Shepherds Lane Dartford DA1 2NL							
Date 24/01/2023 06:40 File Nutts Lane.SRCX			Designed by sheph Checked by				
Innovyze			Source Control 2020.1				
<u>Summary of Results for 100 year Return Period</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	89.022	0.272	1.0	0.0	1.0	38.1	O K
30 min Summer	89.105	0.355	1.0	0.0	1.0	49.7	O K
60 min Summer	89.188	0.438	1.0	0.0	1.0	61.3	O K
120 min Summer	89.264	0.514	1.0	0.0	1.0	71.9	O K
180 min Summer	89.301	0.551	1.0	0.0	1.0	77.1	O K
240 min Summer	89.321	0.571	1.0	0.0	1.0	79.9	O K
360 min Summer	89.340	0.590	1.0	0.0	1.0	82.6	O K
480 min Summer	89.345	0.595	1.0	0.0	1.0	83.3	O K
600 min Summer	89.343	0.593	1.0	0.0	1.0	83.0	O K
720 min Summer	89.335	0.585	1.0	0.0	1.0	82.0	O K
960 min Summer	89.320	0.570	1.0	0.0	1.0	79.8	O K
1440 min Summer	89.287	0.537	1.0	0.0	1.0	75.2	O K
2160 min Summer	89.240	0.490	1.0	0.0	1.0	68.6	O K
2880 min Summer	89.193	0.443	1.0	0.0	1.0	62.0	O K
4320 min Summer	89.092	0.342	1.0	0.0	1.0	47.9	O K
5760 min Summer	89.014	0.264	1.0	0.0	1.0	37.0	O K
7200 min Summer	88.954	0.204	1.0	0.0	1.0	28.6	O K
8640 min Summer	88.910	0.160	1.0	0.0	1.0	22.4	O K
10080 min Summer	88.878	0.128	0.9	0.0	0.9	17.9	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	98.681	0.0	38.0	0.0	19		
30 min Summer	64.789	0.0	49.9	0.0	34		
60 min Summer	40.510	0.0	63.4	0.0	64		
120 min Summer	24.461	0.0	76.6	0.0	124		
180 min Summer	17.964	0.0	84.3	0.0	182		
240 min Summer	14.342	0.0	89.8	0.0	242		
360 min Summer	10.418	0.0	97.8	0.0	362		
480 min Summer	8.302	0.0	103.8	0.0	480		
600 min Summer	6.956	0.0	108.7	0.0	600		
720 min Summer	6.017	0.0	112.7	0.0	688		
960 min Summer	4.784	0.0	119.3	0.0	800		
1440 min Summer	3.456	0.0	128.2	0.0	1052		
2160 min Summer	2.493	0.0	141.1	0.0	1468		
2880 min Summer	1.975	0.0	149.0	0.0	1876		
4320 min Summer	1.421	0.0	160.7	0.0	2636		
5760 min Summer	1.124	0.0	169.8	0.0	3344		
7200 min Summer	0.936	0.0	176.8	0.0	4040		
8640 min Summer	0.806	0.0	182.6	0.0	4680		
10080 min Summer	0.710	0.0	187.5	0.0	5352		
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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</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	89.056	0.306	1.0	0.0	1.0	42.8	O K
30 min Winter	89.149	0.399	1.0	0.0	1.0	55.8	O K
60 min Winter	89.242	0.492	1.0	0.0	1.0	68.9	O K
120 min Winter	89.329	0.579	1.0	0.0	1.0	81.1	O K
180 min Winter	89.372	0.622	1.0	0.0	1.0	87.1	O K
240 min Winter	89.396	0.646	1.0	0.0	1.0	90.4	O K
360 min Winter	89.421	0.671	1.0	0.0	1.0	94.0	O K
480 min Winter	89.431	0.681	1.0	0.0	1.0	95.3	O K
600 min Winter	89.432	0.682	1.0	0.0	1.0	95.5	O K
720 min Winter	89.427	0.677	1.0	0.0	1.0	94.8	O K
960 min Winter	89.409	0.659	1.0	0.0	1.0	92.2	O K
1440 min Winter	89.367	0.617	1.0	0.0	1.0	86.4	O K
2160 min Winter	89.303	0.553	1.0	0.0	1.0	77.4	O K
2880 min Winter	89.236	0.486	1.0	0.0	1.0	68.0	O K
4320 min Winter	89.083	0.333	1.0	0.0	1.0	46.7	O K
5760 min Winter	88.971	0.221	1.0	0.0	1.0	30.9	O K
7200 min Winter	88.897	0.147	1.0	0.0	1.0	20.6	O K
8640 min Winter	88.853	0.103	0.9	0.0	0.9	14.4	O K
10080 min Winter	88.829	0.079	0.9	0.0	0.9	11.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Winter	98.681	0.0	42.6	0.0	19		
30 min Winter	64.789	0.0	55.8	0.0	33		
60 min Winter	40.510	0.0	71.0	0.0	62		
120 min Winter	24.461	0.0	85.7	0.0	122		
180 min Winter	17.964	0.0	94.4	0.0	180		
240 min Winter	14.342	0.0	100.5	0.0	238		
360 min Winter	10.418	0.0	109.4	0.0	354		
480 min Winter	8.302	0.0	116.2	0.0	468		
600 min Winter	6.956	0.0	121.6	0.0	580		
720 min Winter	6.017	0.0	126.0	0.0	688		
960 min Winter	4.784	0.0	133.1	0.0	894		
1440 min Winter	3.456	0.0	140.4	0.0	1112		
2160 min Winter	2.493	0.0	158.0	0.0	1580		
2880 min Winter	1.975	0.0	166.9	0.0	2044		
4320 min Winter	1.421	0.0	180.0	0.0	2812		
5760 min Winter	1.124	0.0	190.2	0.0	3512		
7200 min Winter	0.936	0.0	198.0	0.0	4112		
8640 min Winter	0.806	0.0	204.5	0.0	4752		
10080 min Winter	0.710	0.0	210.1	0.0	5256		
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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)	20.000	Shortest Storm (mins)	15
Ratio R	0.400	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.210

Time (mins)	Area
From:	To: (ha)
0	4 0.210

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Easy Flood Risk		Page 4
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Model Details

Storage is Online Cover Level (m) 90.000

Tank or Pond Structure

Invert Level (m) 88.750

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	140.0	0.750	140.0

Hydro-Brake® Optimum Outflow Control

Unit Reference	MD-SCI-0048-1000-0750-1000
Design Head (m)	0.750
Design Flow (l/s)	1.0
Flush-Flo™	Calculated
Objective	Minimise blockage risk
Application	Surface
Sump Available	Yes
Diameter (mm)	48
Invert Level (m)	88.750
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)	0.750	1.0	Kick-Flo®	0.424	0.8
Flush-Flo™	0.196	1.0	Mean Flow over Head Range	-	0.9

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	0.9	1.200	1.2	3.000	1.9	7.000	2.8
0.200	1.0	1.400	1.3	3.500	2.0	7.500	2.9
0.300	0.9	1.600	1.4	4.000	2.1	8.000	2.9
0.400	0.9	1.800	1.5	4.500	2.3	8.500	3.0
0.500	0.8	2.000	1.6	5.000	2.4	9.000	3.1
0.600	0.9	2.200	1.6	5.500	2.5	9.500	3.2
0.800	1.0	2.400	1.7	6.000	2.6		
1.000	1.1	2.600	1.7	6.500	2.7		

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Easy Flood Risk		Page 5
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Hydro-Brake® Optimum Overflow Control

Unit Reference	MD-SCL-0051-1000-0500-1000
Design Head (m)	0.500
Design Flow (l/s)	1.0
Flush-Flo™	Calculated
Objective	Minimise blockage risk
Application	Surface
Sump Available	Yes
Diameter (mm)	51
Invert Level (m)	89.500
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	1.0	Kick-Flo®	0.306	0.8
Flush-Flo™	0.127	1.0	Mean Flow over Head Range	-	0.9

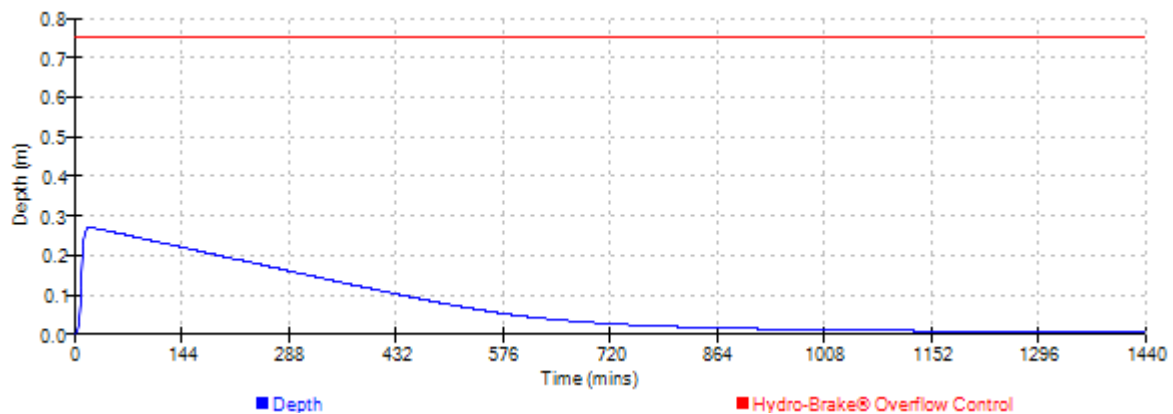
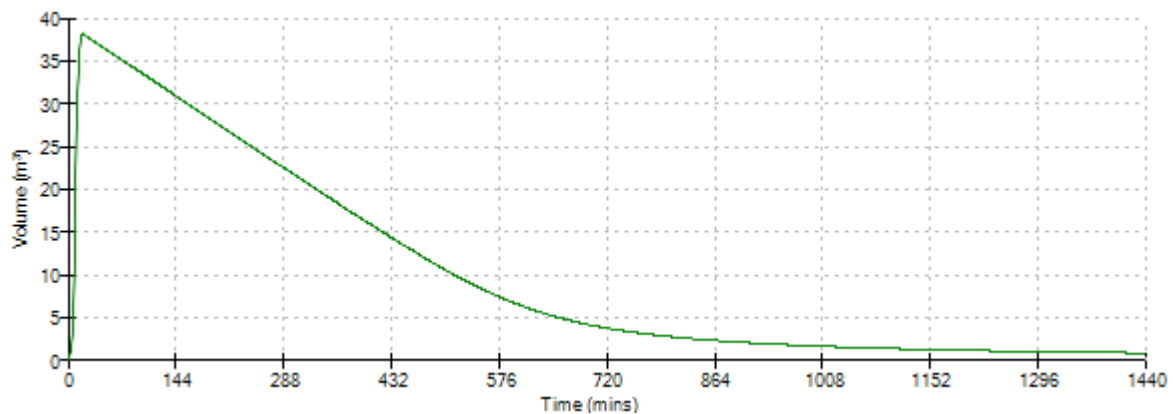
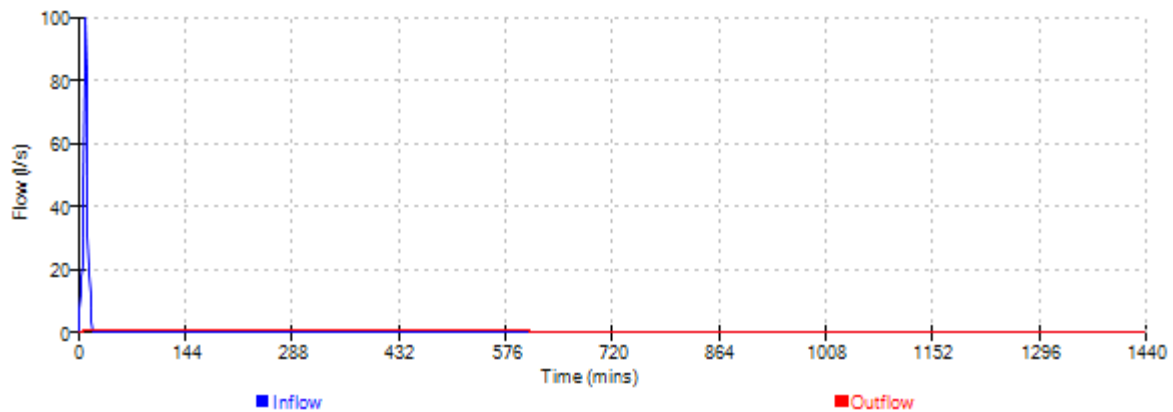
The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	1.0	1.200	1.5	3.000	2.2	7.000	3.3
0.200	1.0	1.400	1.6	3.500	2.4	7.500	3.4
0.300	0.8	1.600	1.7	4.000	2.5	8.000	3.6
0.400	0.9	1.800	1.8	4.500	2.7	8.500	3.7
0.500	1.0	2.000	1.9	5.000	2.8	9.000	3.8
0.600	1.1	2.200	1.9	5.500	2.9	9.500	3.9
0.800	1.2	2.400	2.0	6.000	3.1		
1.000	1.4	2.600	2.1	6.500	3.2		

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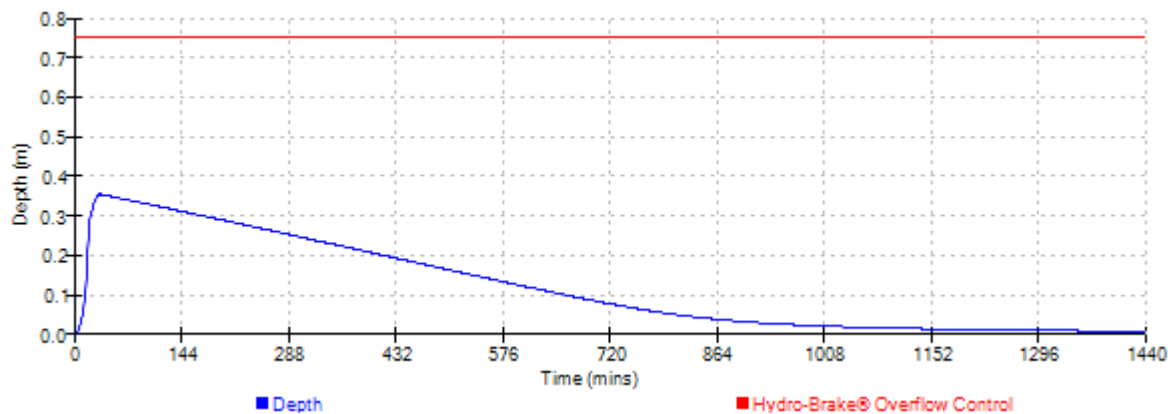
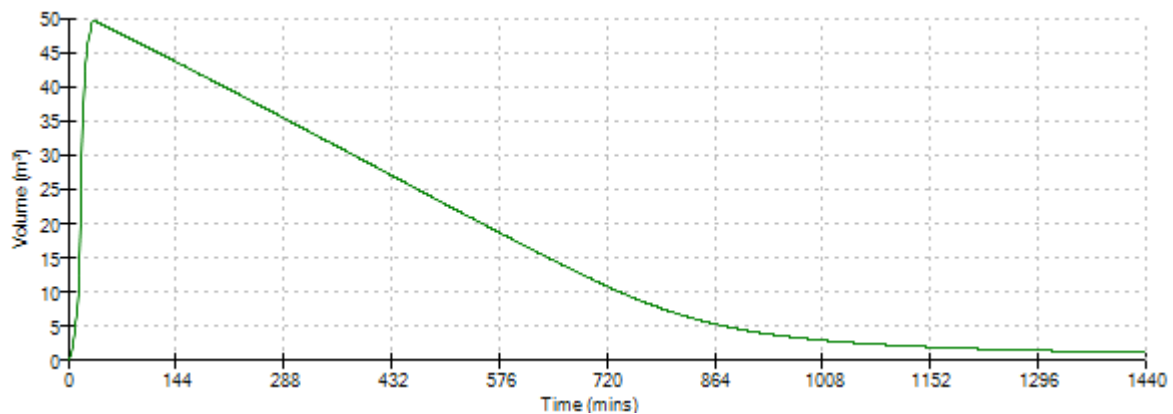
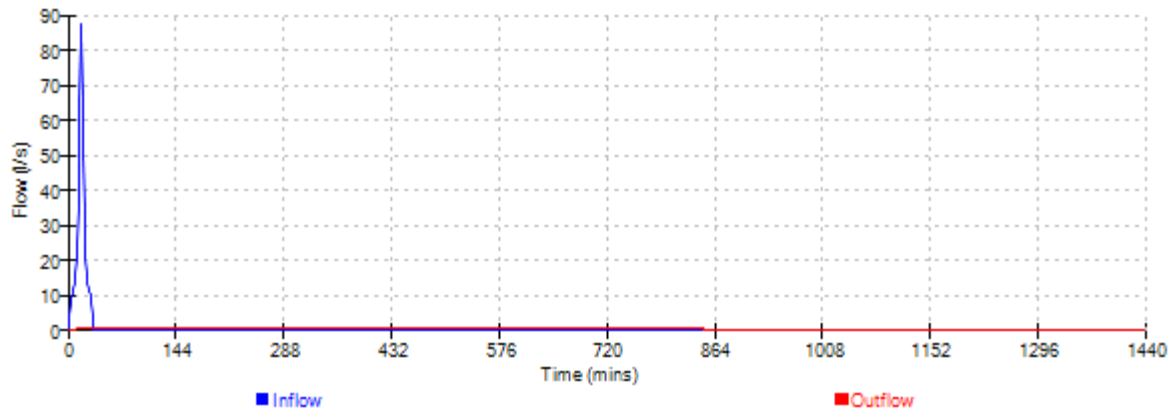
Easy Flood Risk		Page 6
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Event: 15 min Summer



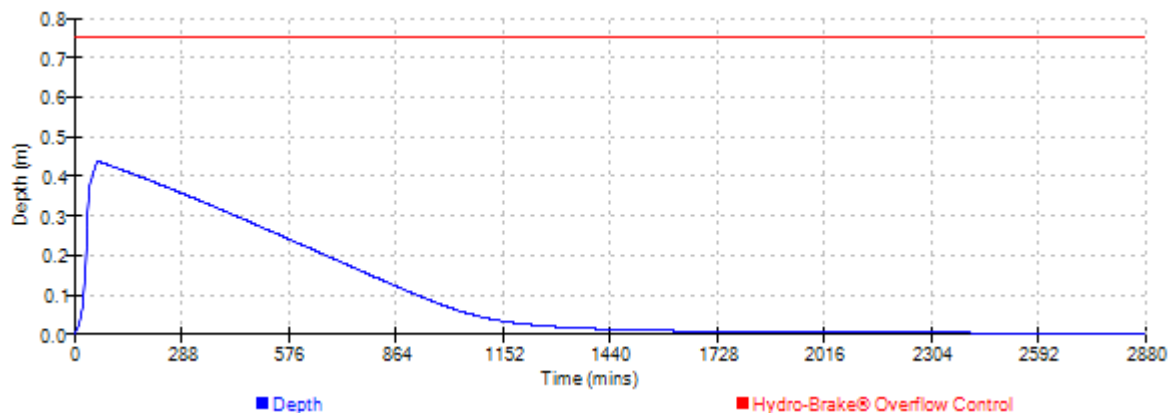
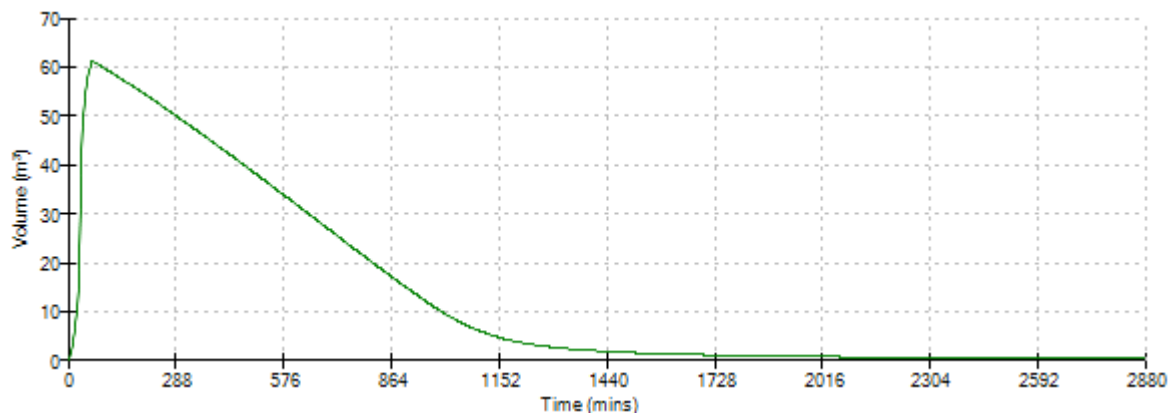
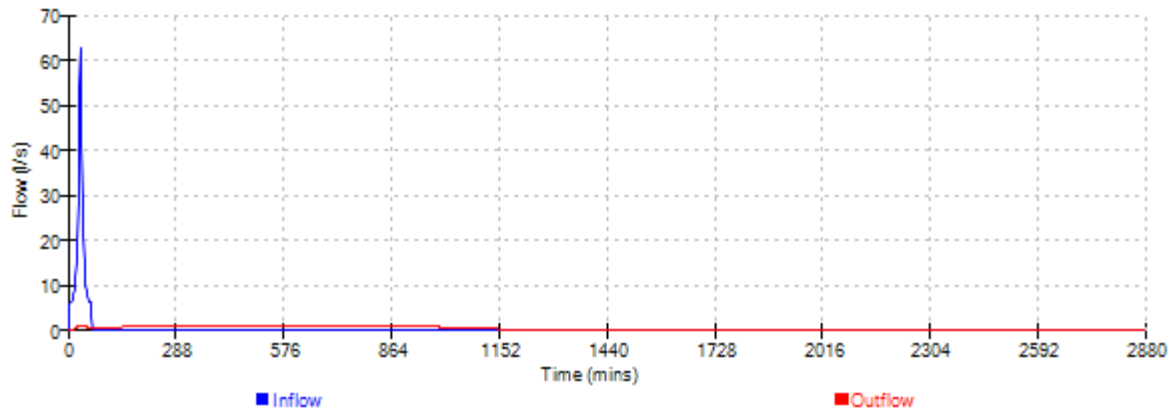
Easy Flood Risk		Page 7
55 Shepherds Lane Dartford DA1 2NL		
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Event: 30 min Summer



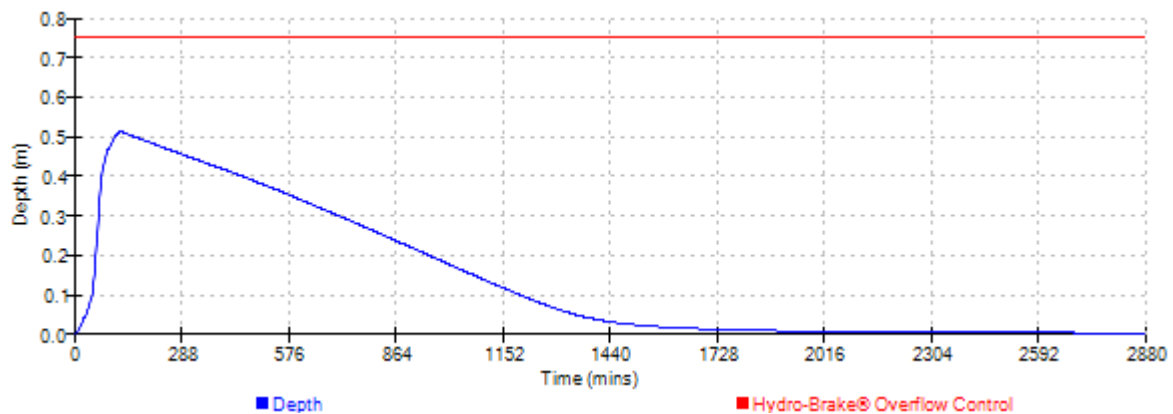
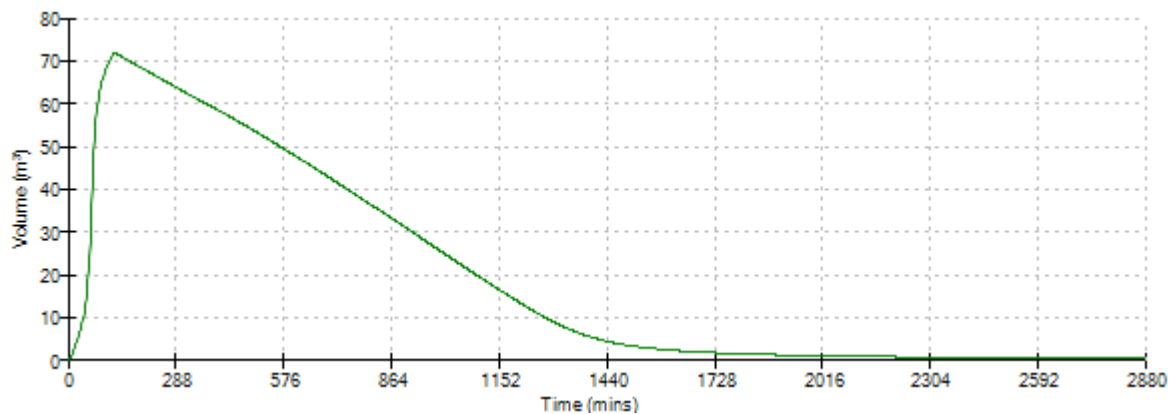
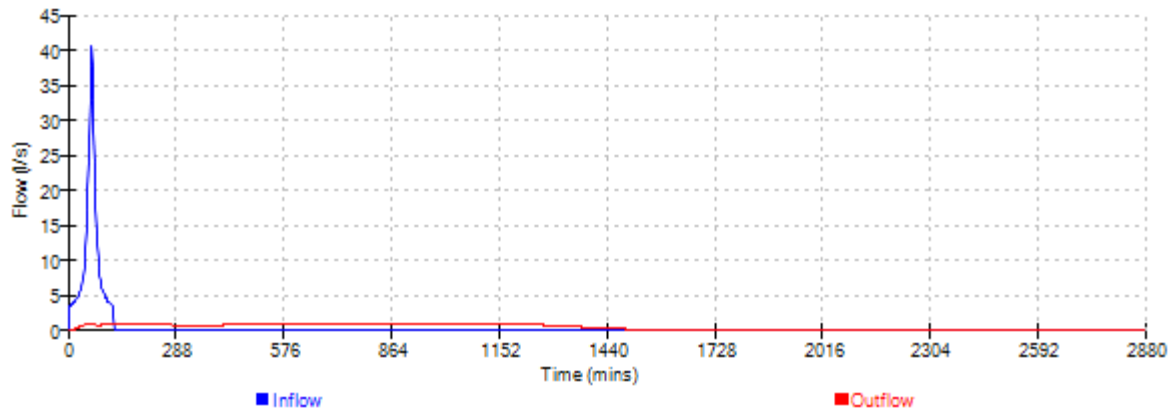
Easy Flood Risk		Page 8
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Event: 60 min Summer



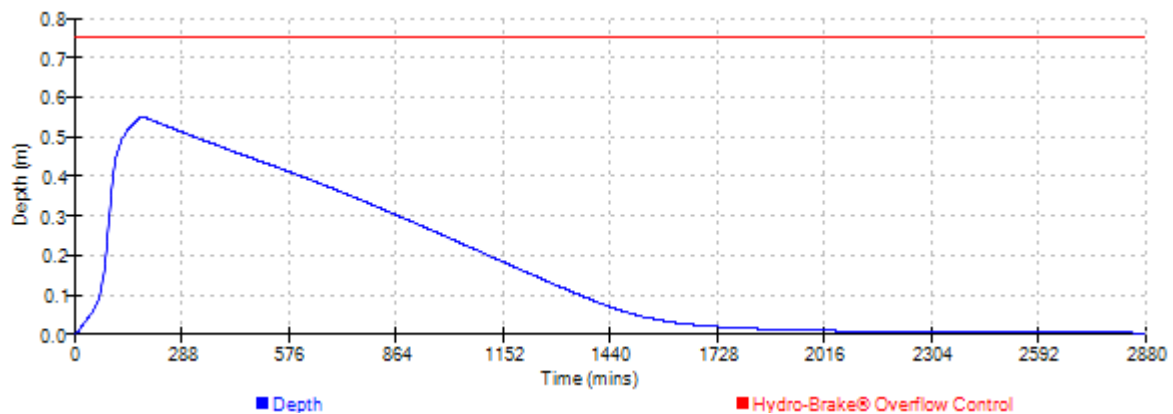
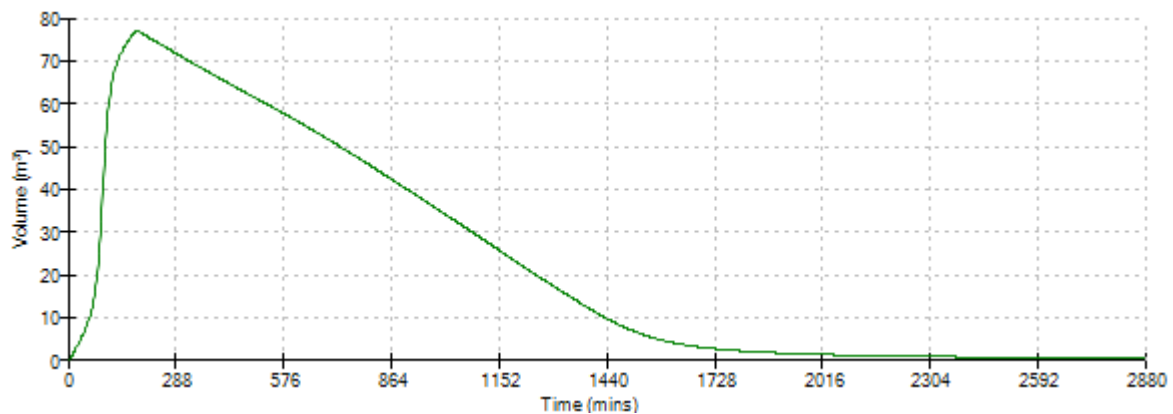
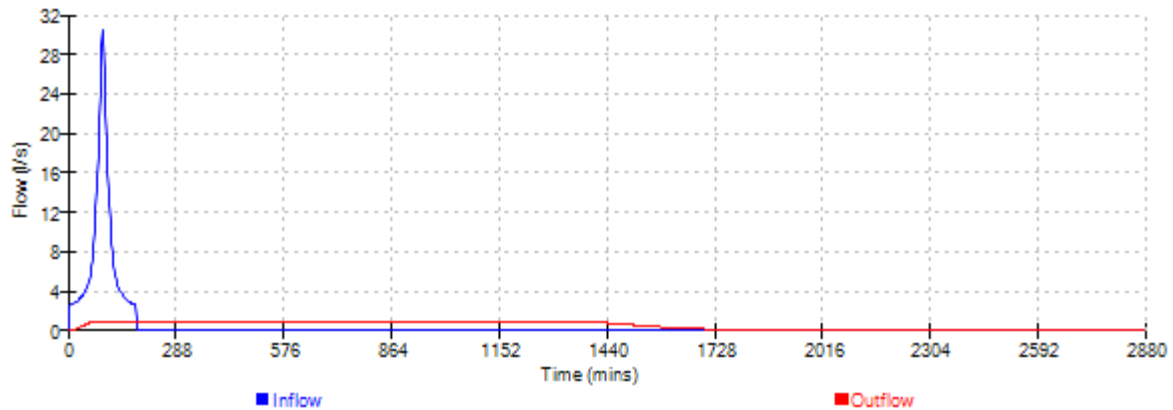
Easy Flood Risk		Page 9
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Event: 120 min Summer



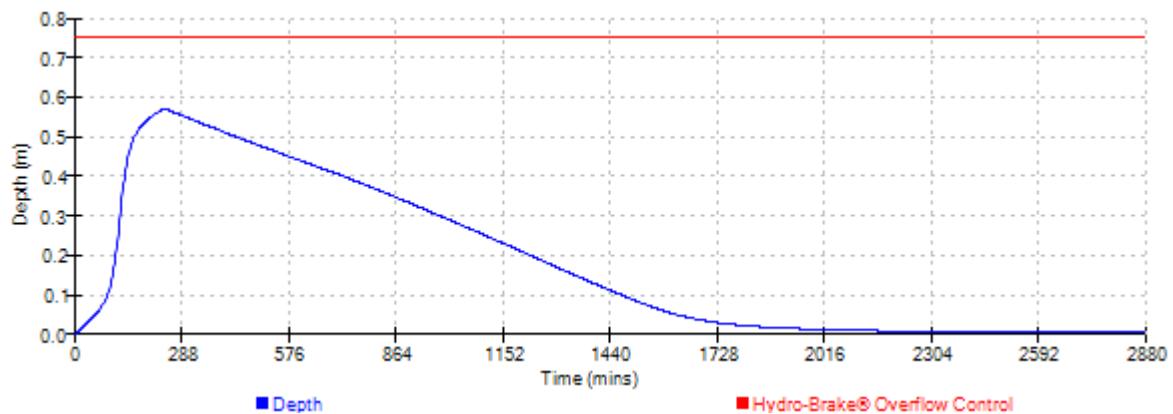
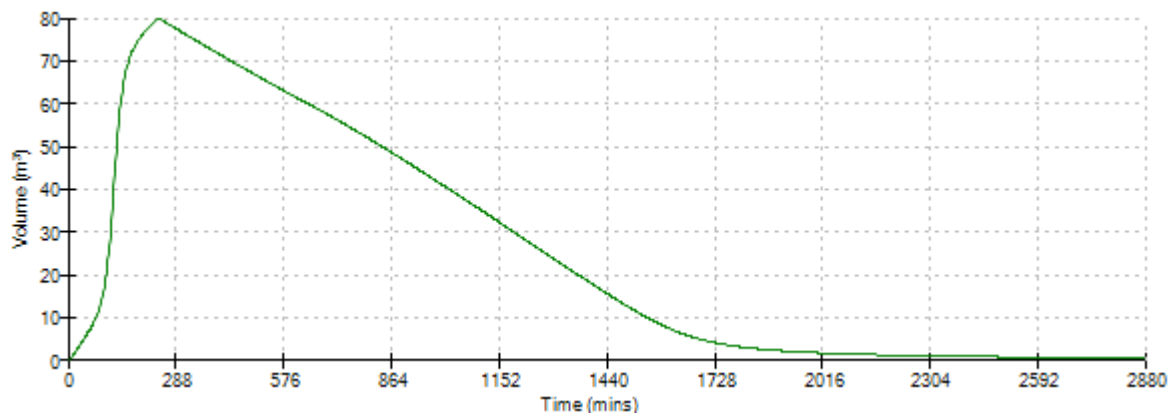
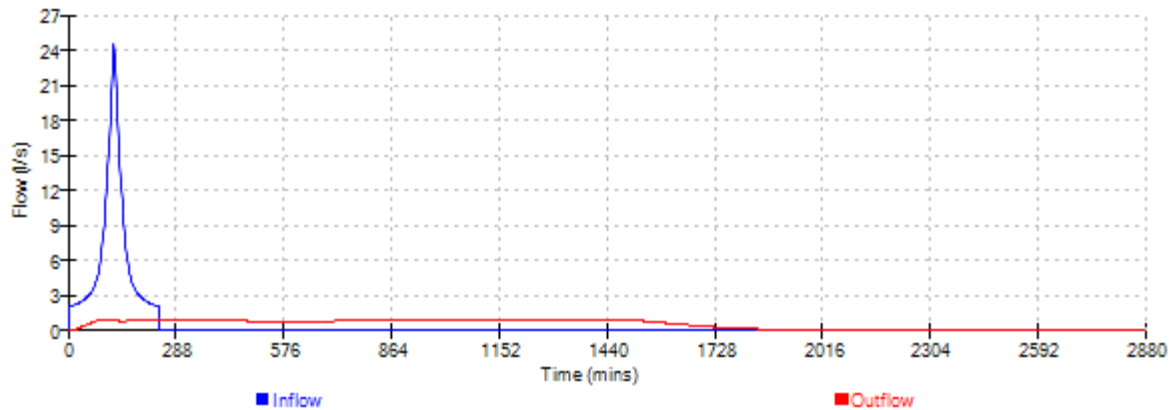
Easy Flood Risk		Page 10
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Event: 180 min Summer



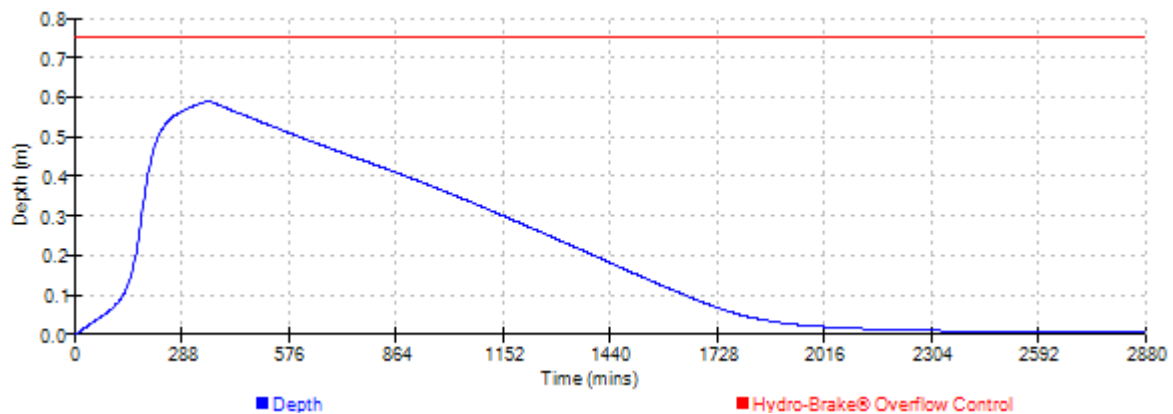
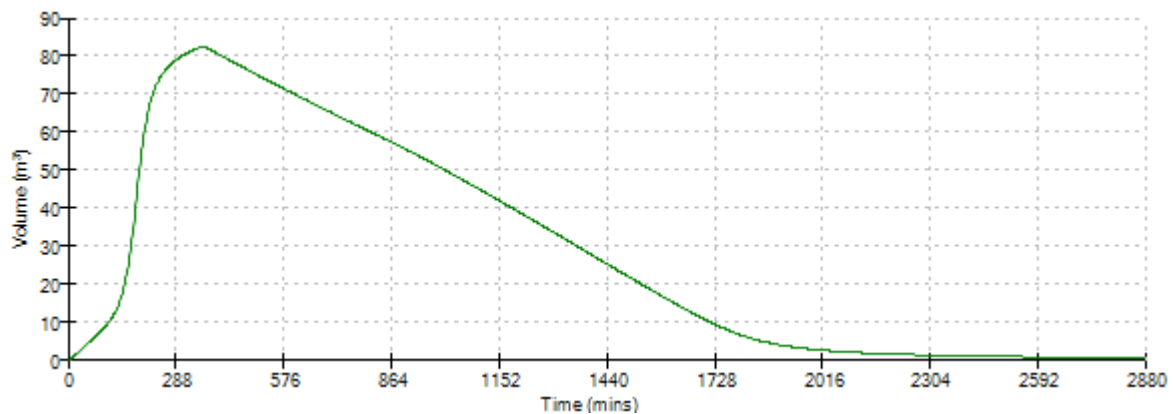
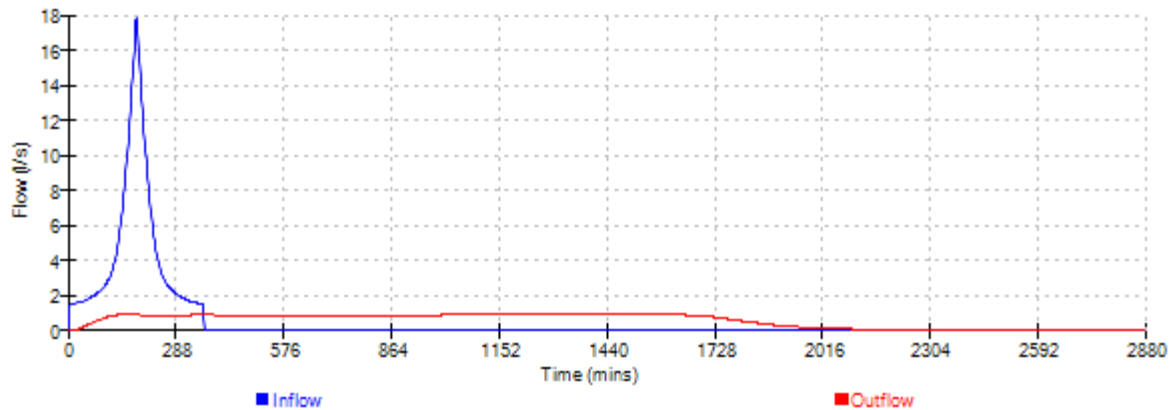
Easy Flood Risk		Page 11
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Event: 240 min Summer



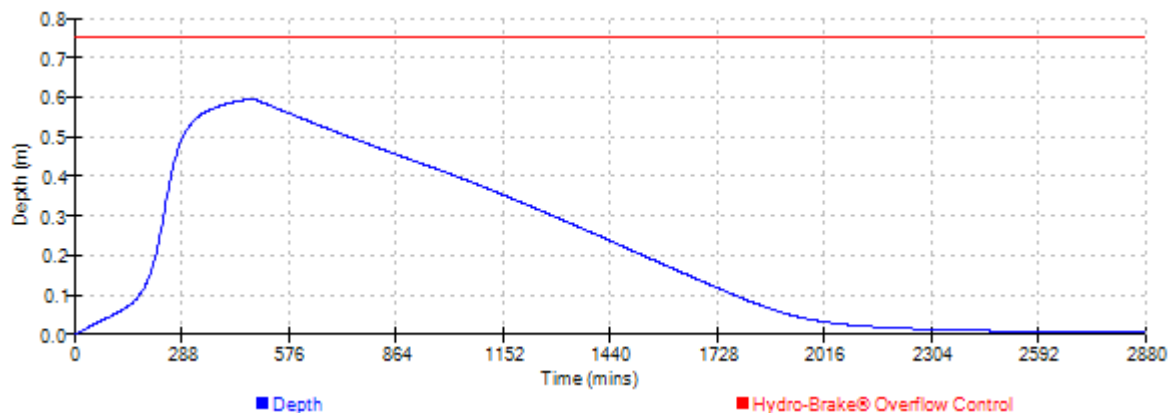
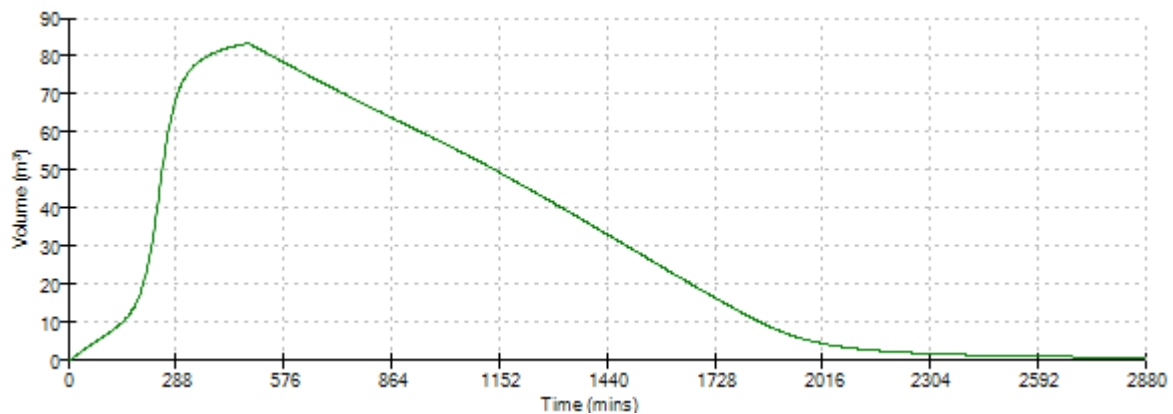
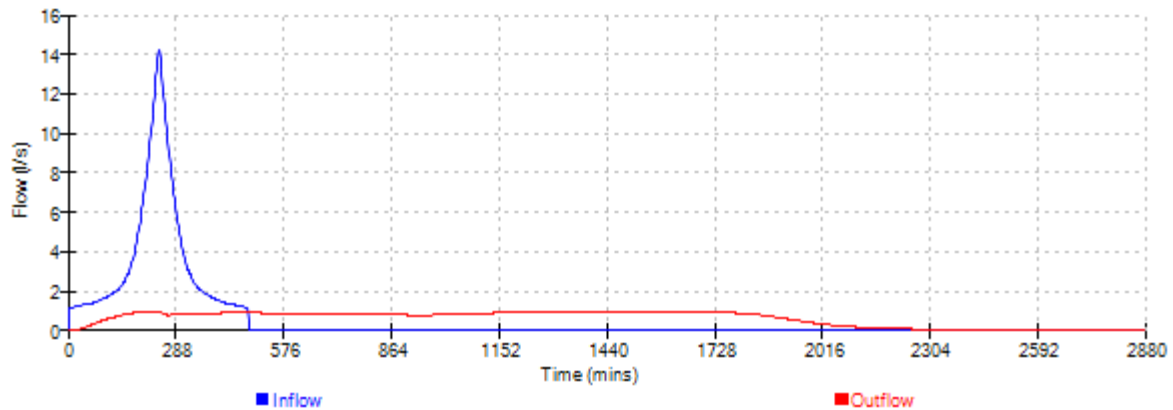
Easy Flood Risk		Page 12
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Event: 360 min Summer



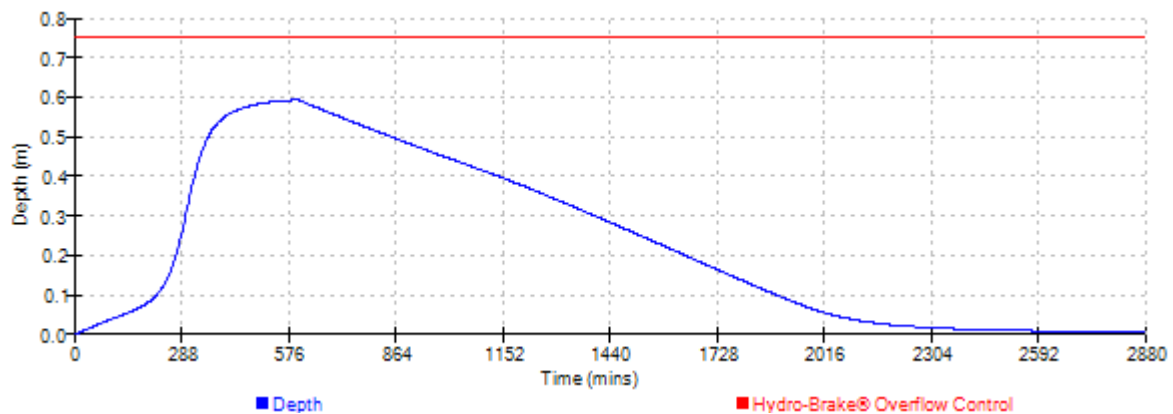
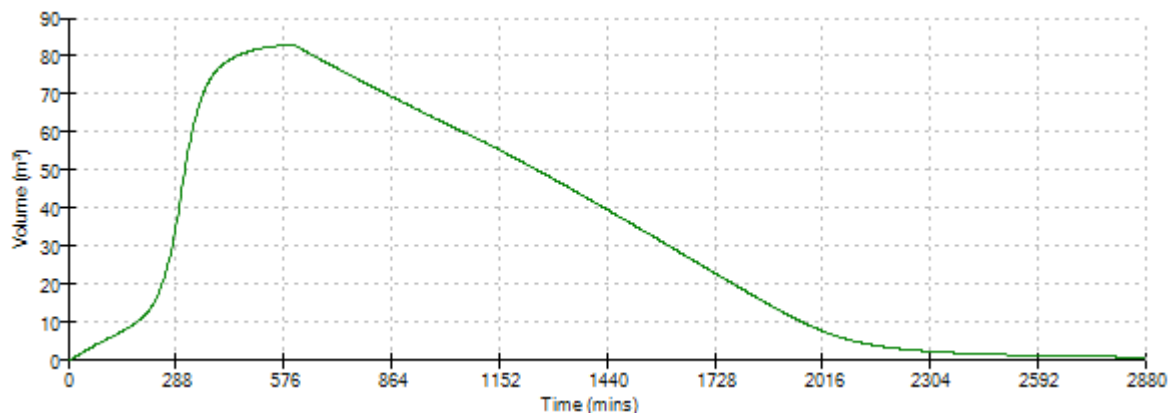
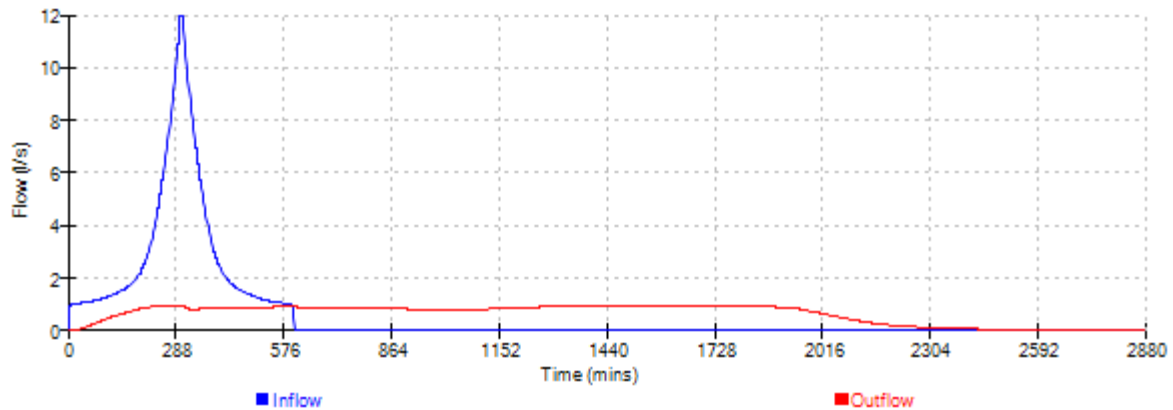
Easy Flood Risk		Page 13
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Event: 480 min Summer



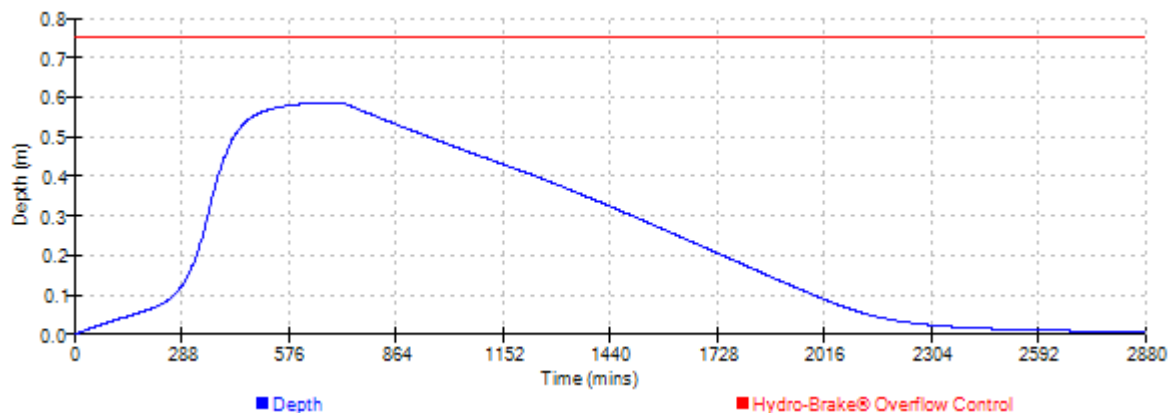
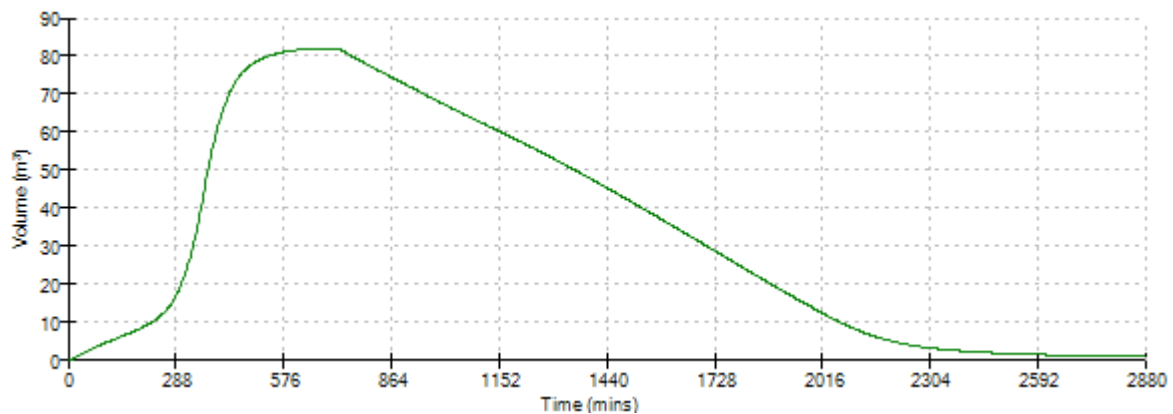
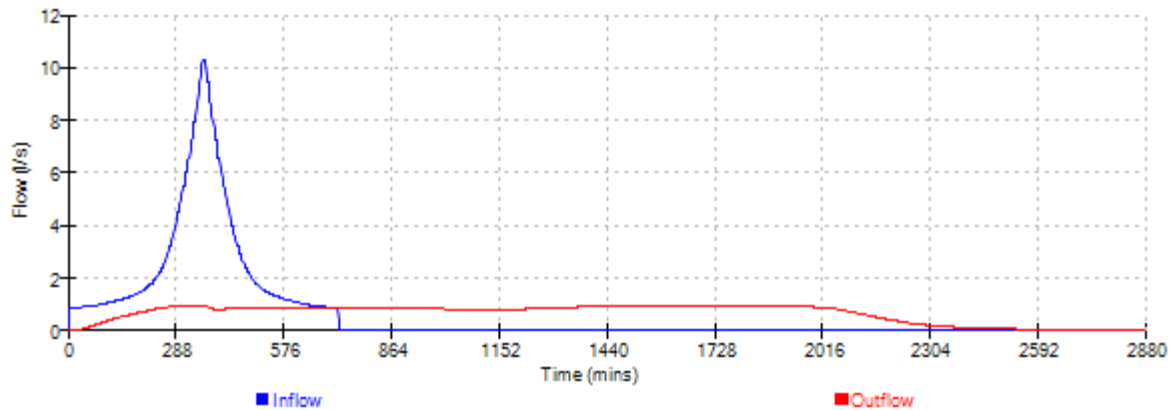
Easy Flood Risk		Page 14
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Event: 600 min Summer



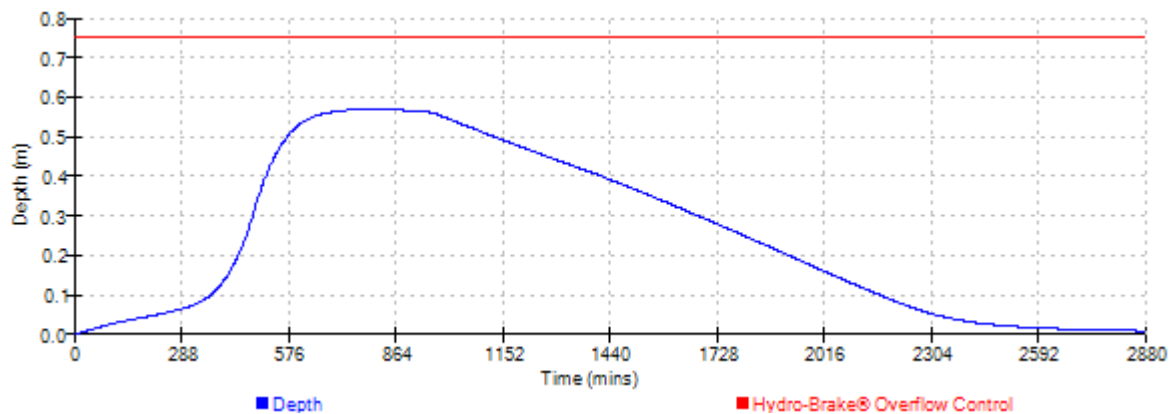
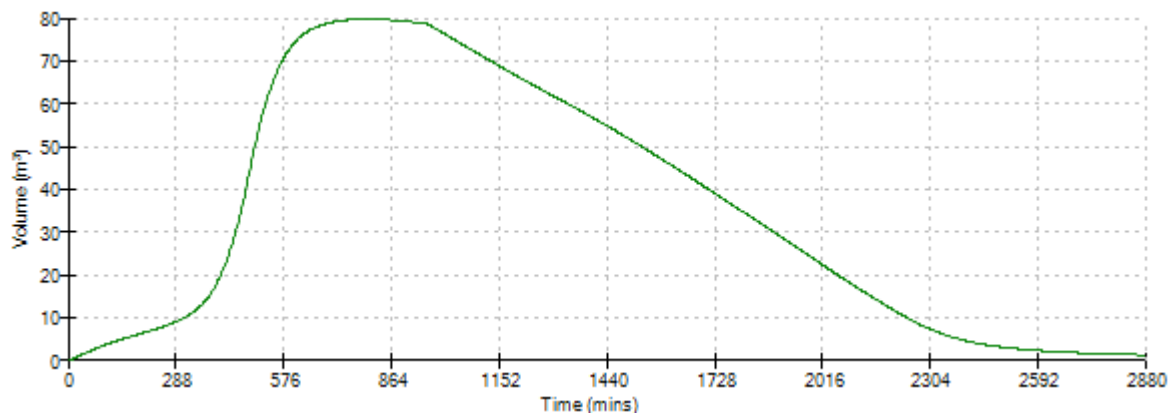
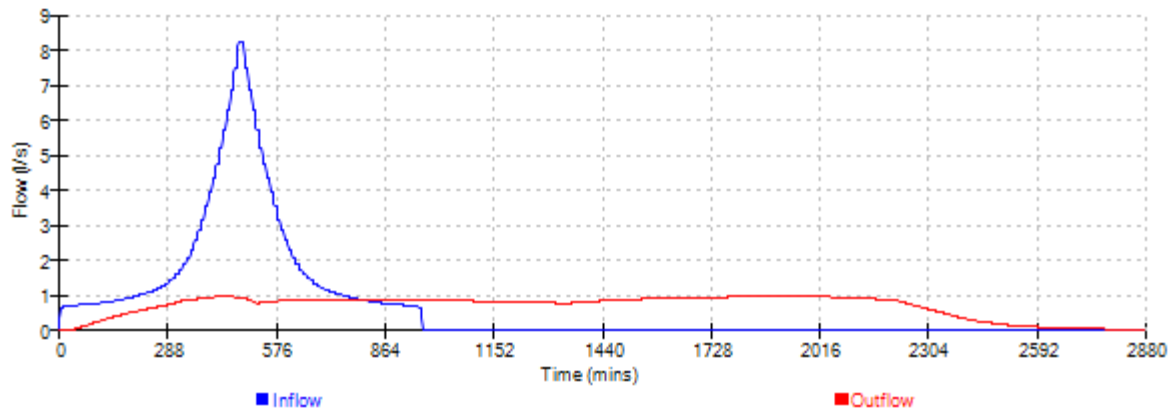
Easy Flood Risk		Page 15
55 Shepherds Lane Dartford DA1 2NL		
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Event: 720 min Summer



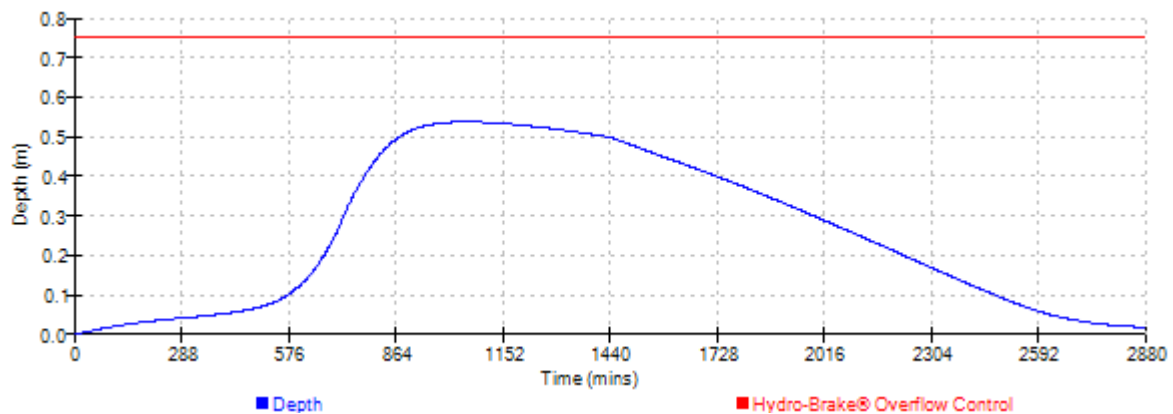
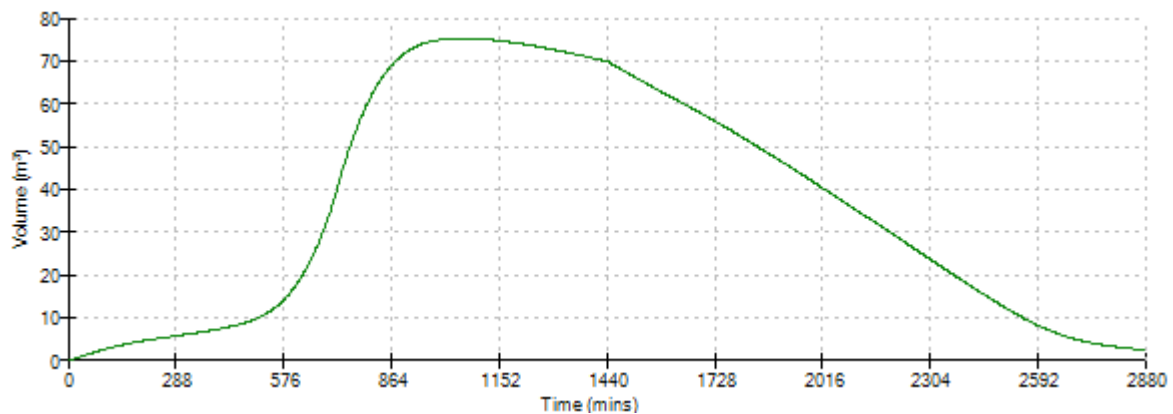
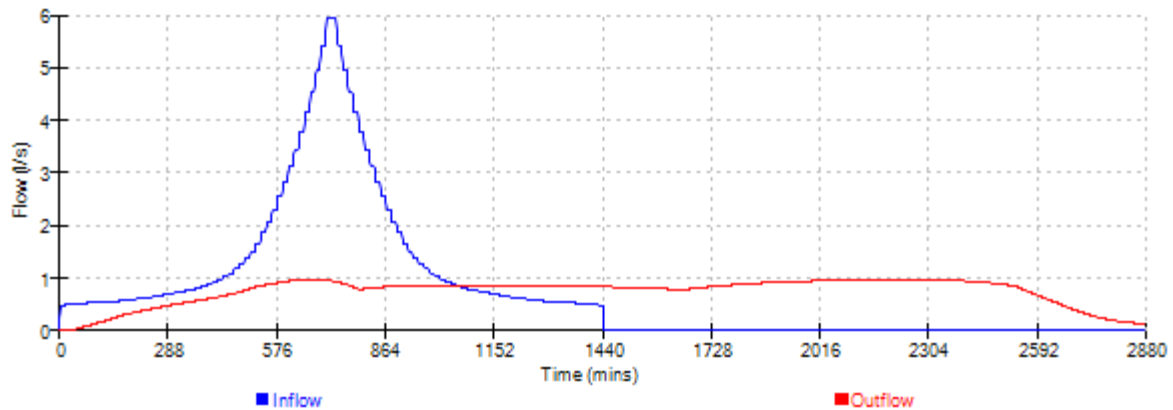
Easy Flood Risk		Page 16
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
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Event: 960 min Summer



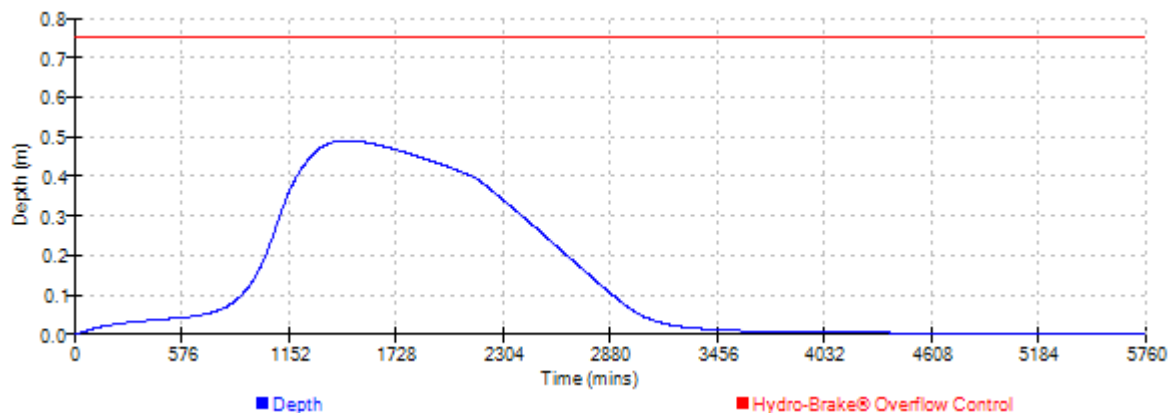
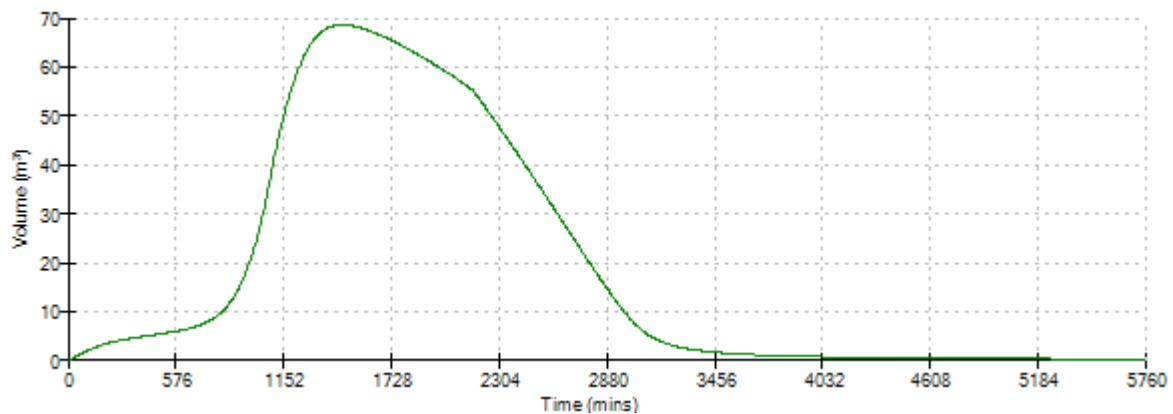
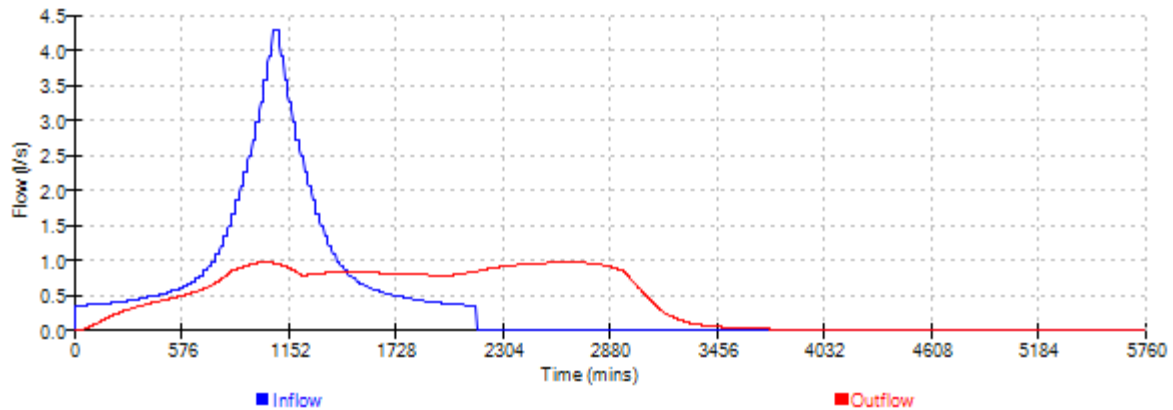
Easy Flood Risk		Page 17
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Summer



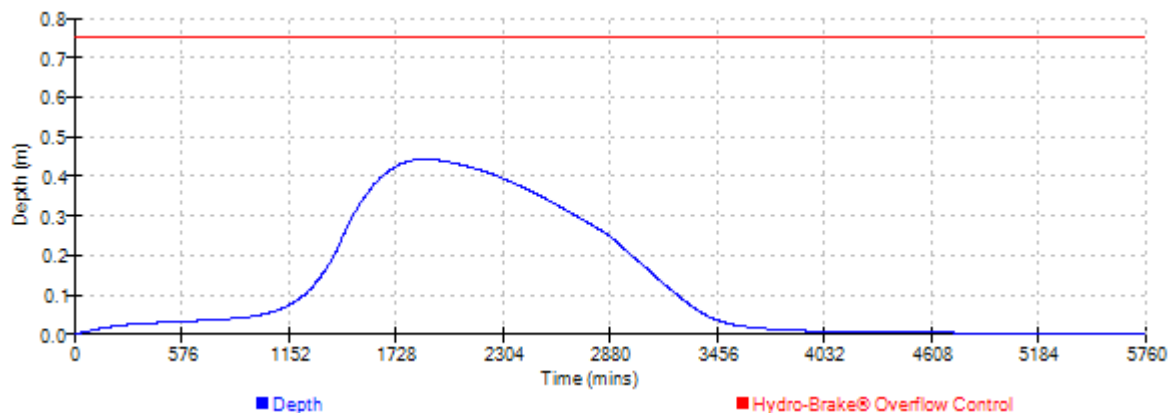
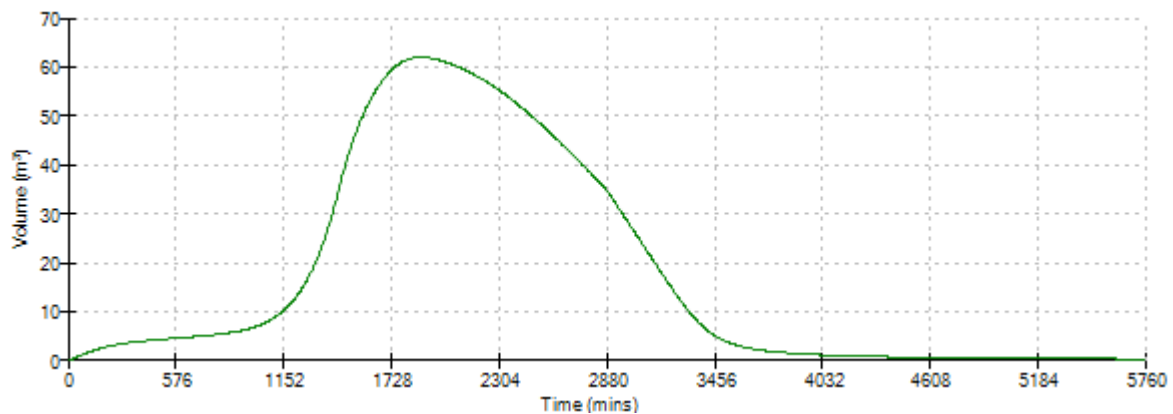
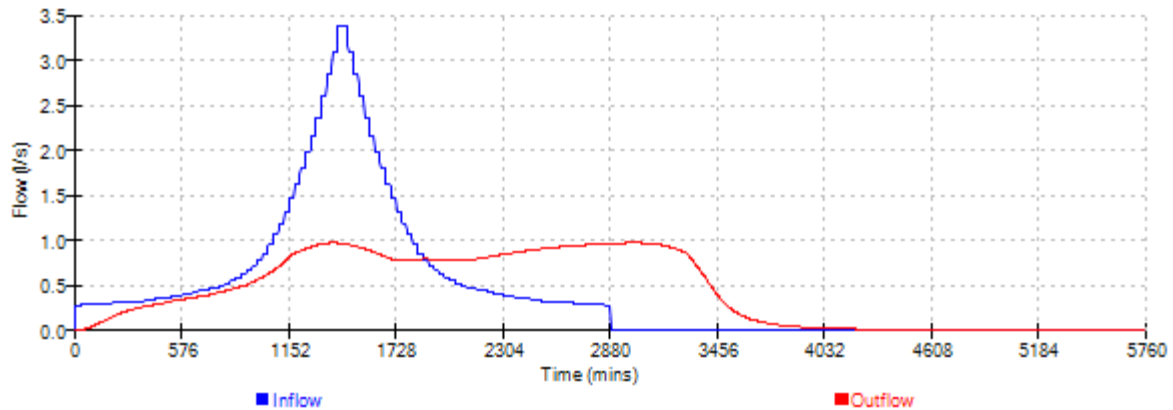
Easy Flood Risk		Page 18
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze		Source Control 2020.1

Event: 2160 min Summer



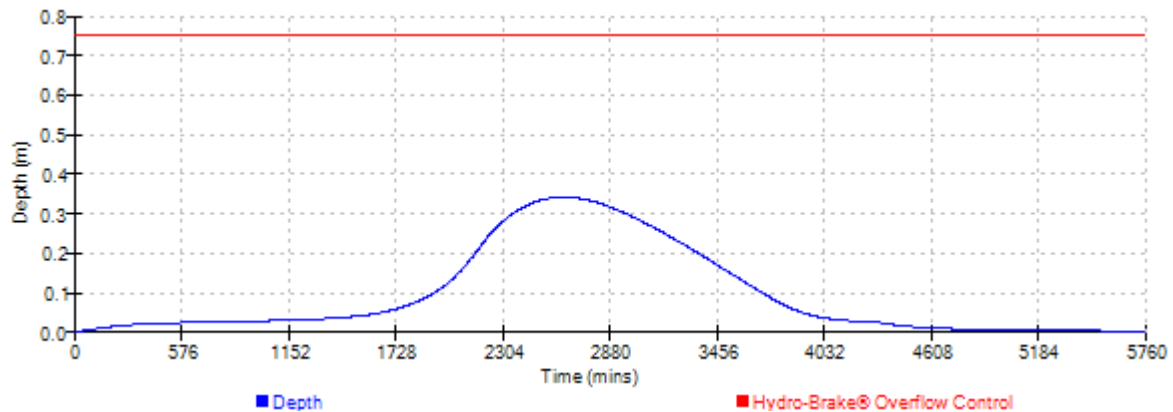
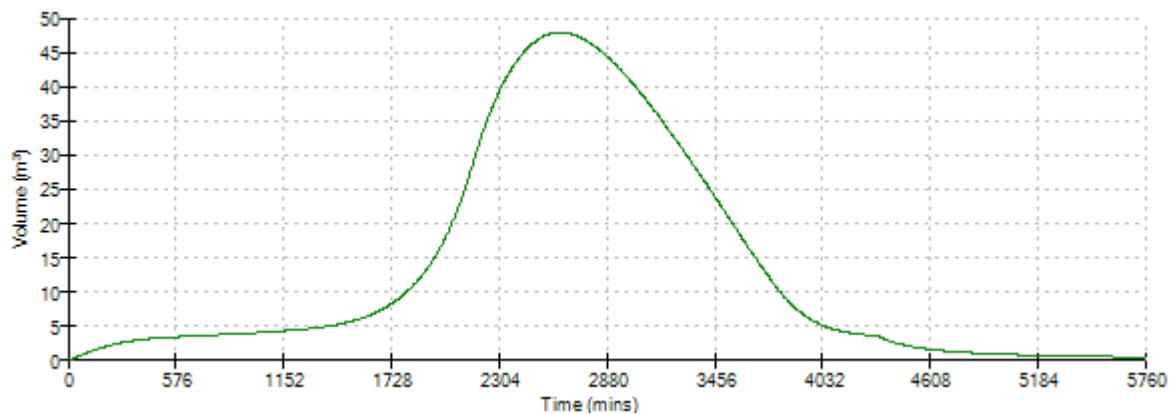
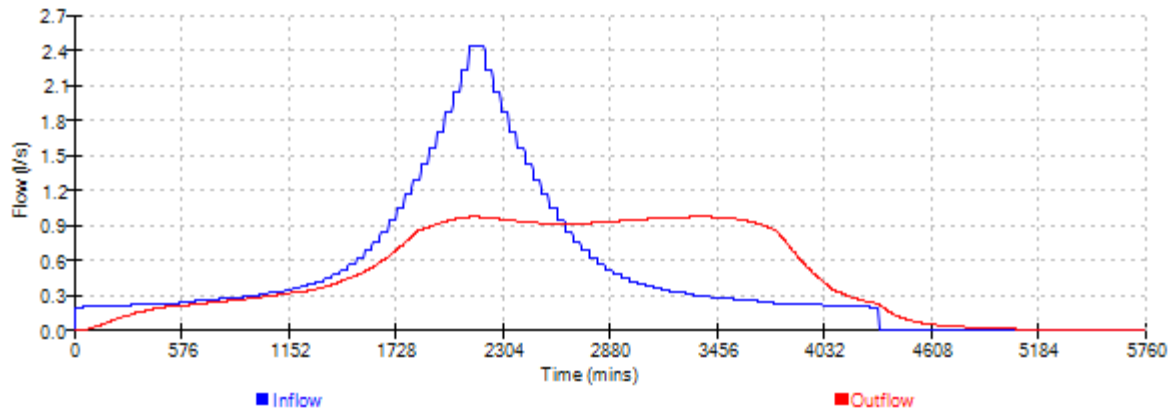
Easy Flood Risk		Page 19
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Summer



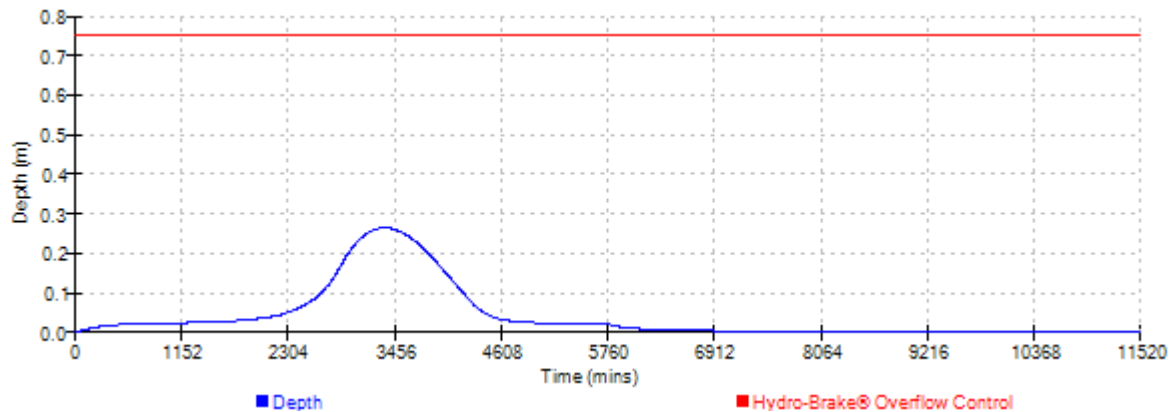
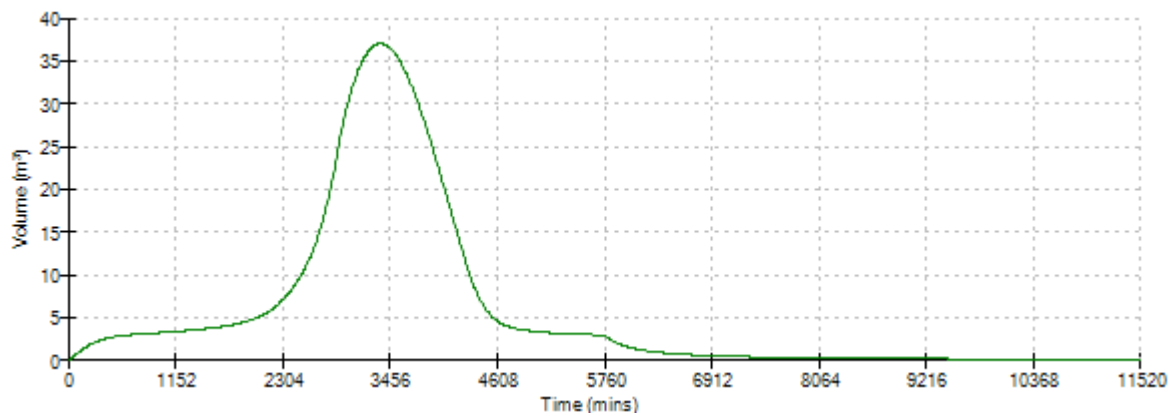
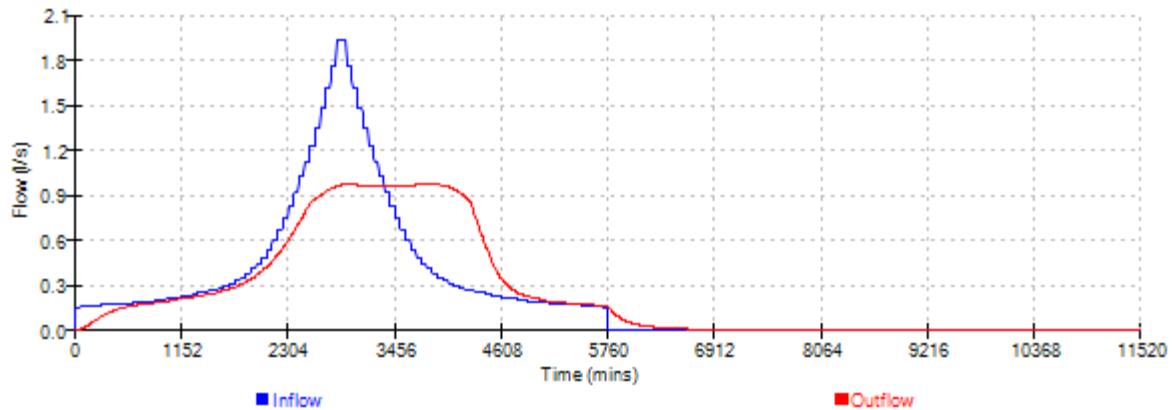
Easy Flood Risk		Page 20
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Summer



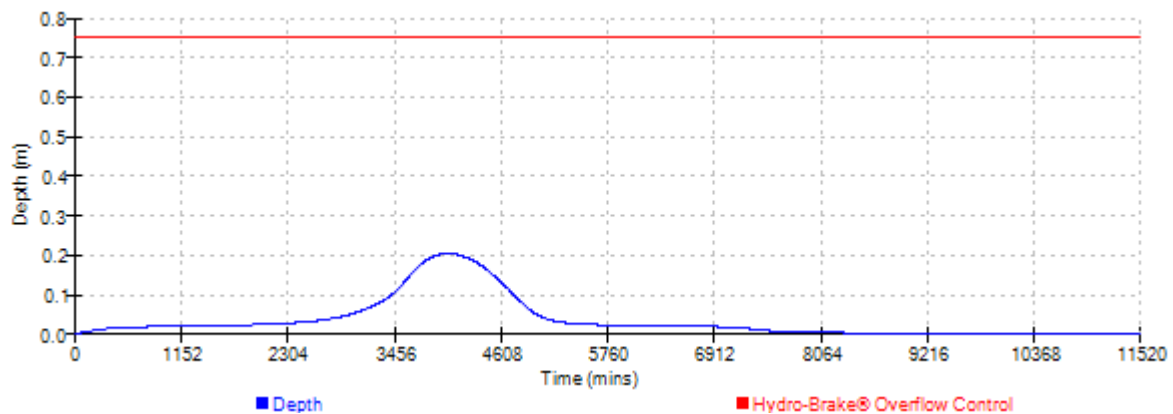
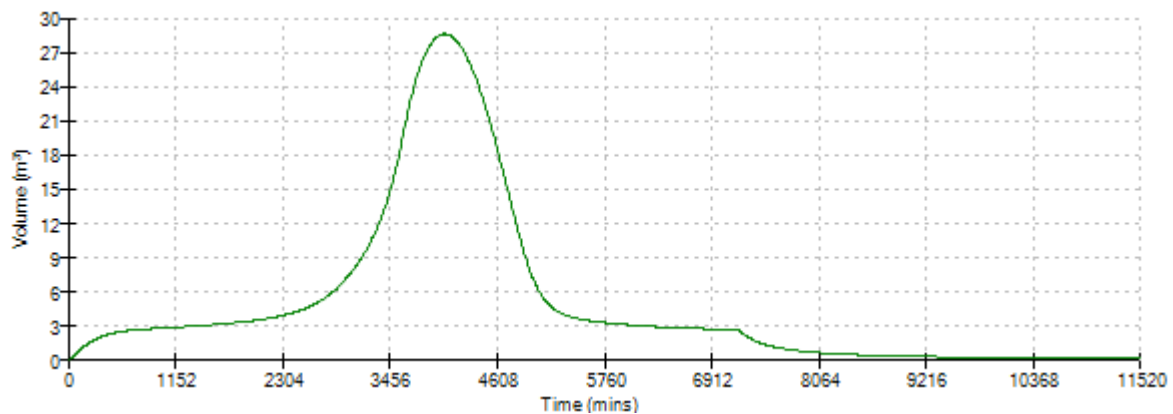
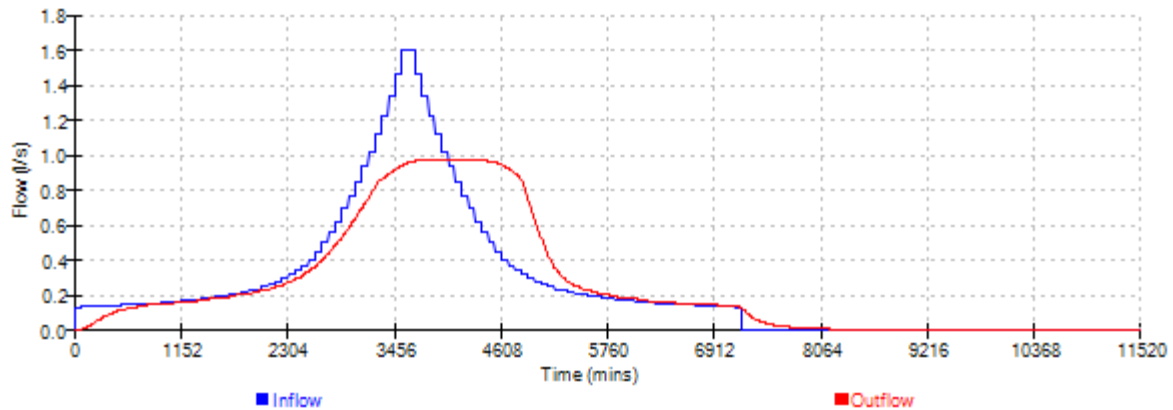
Easy Flood Risk		Page 21
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Summer



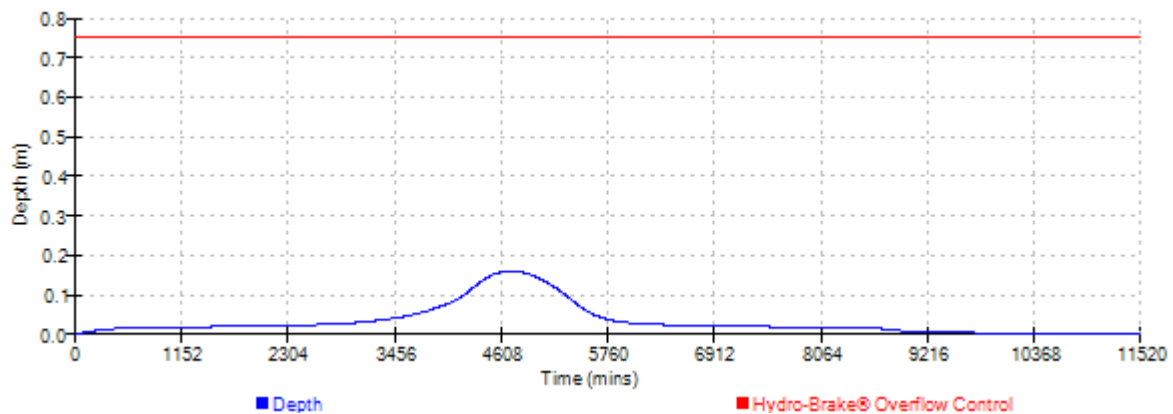
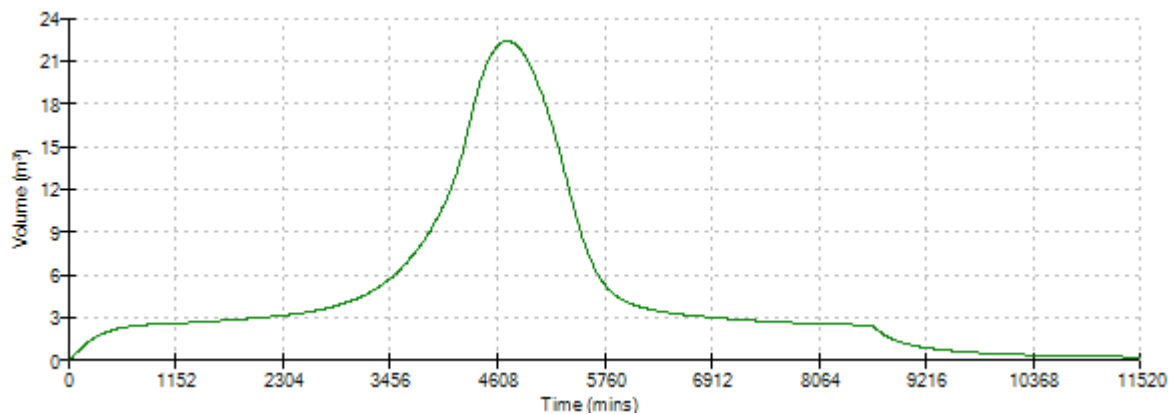
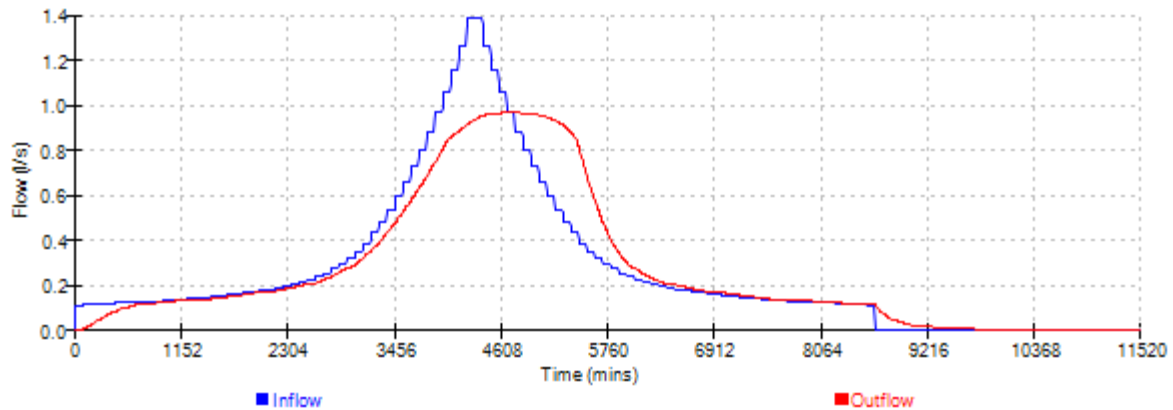
Easy Flood Risk		Page 22
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Summer



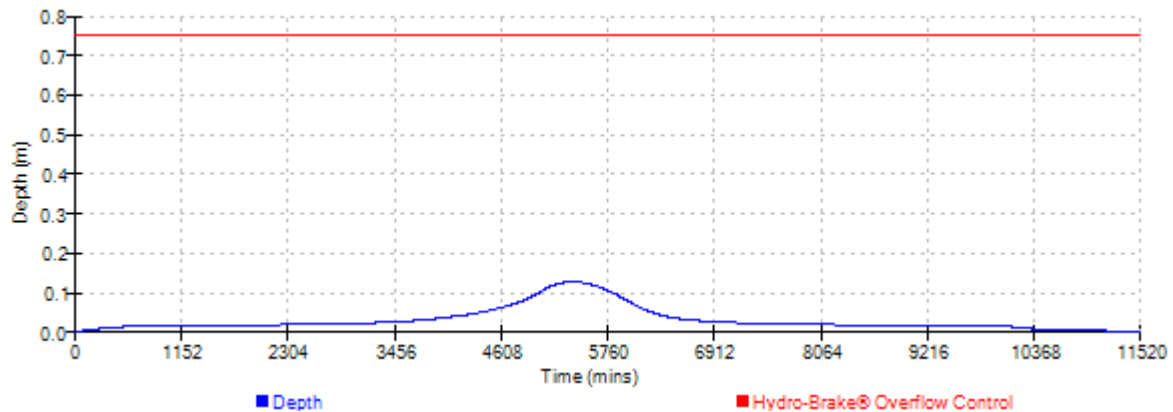
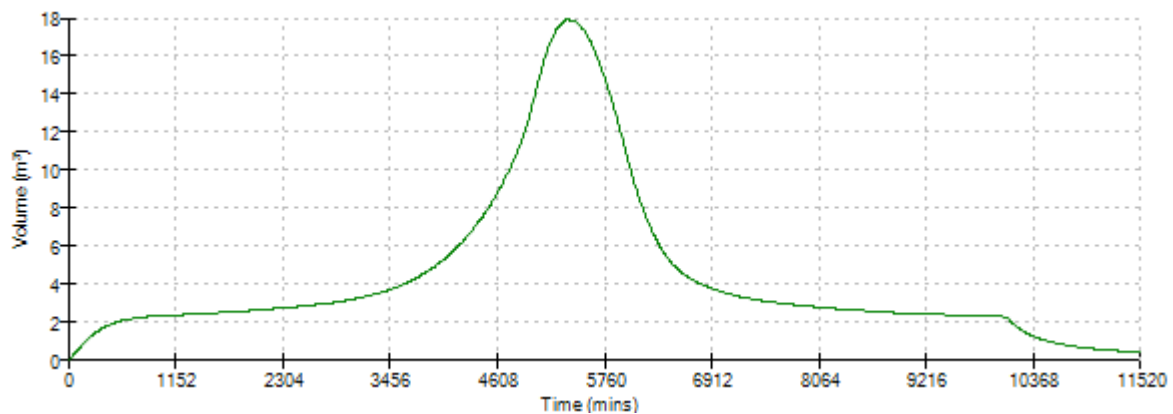
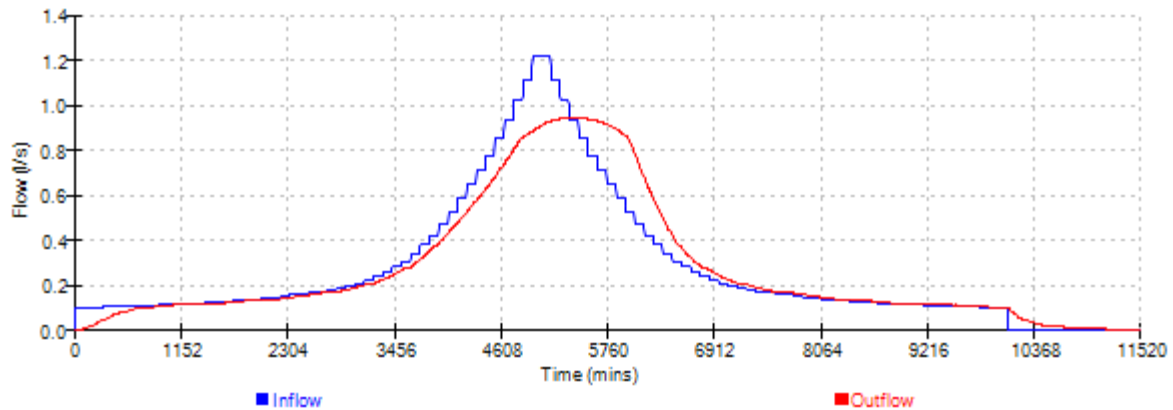
Easy Flood Risk		Page 23
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 8640 min Summer



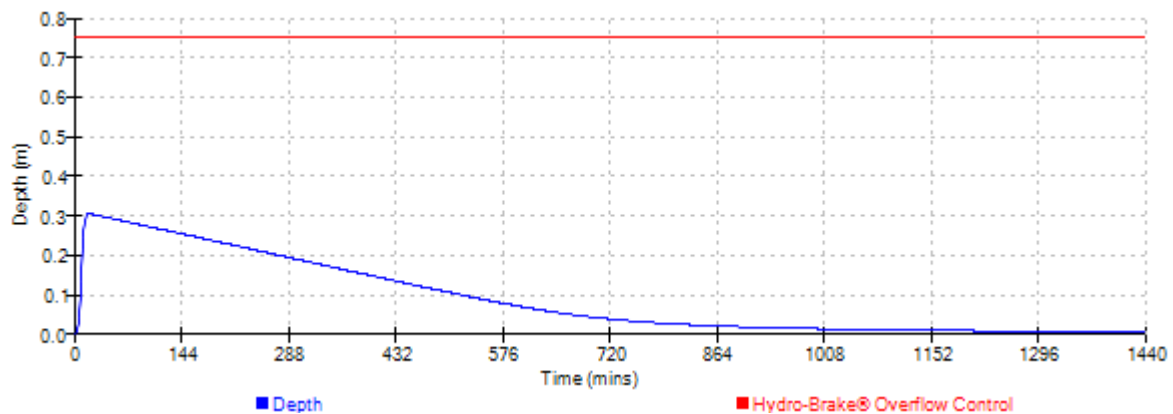
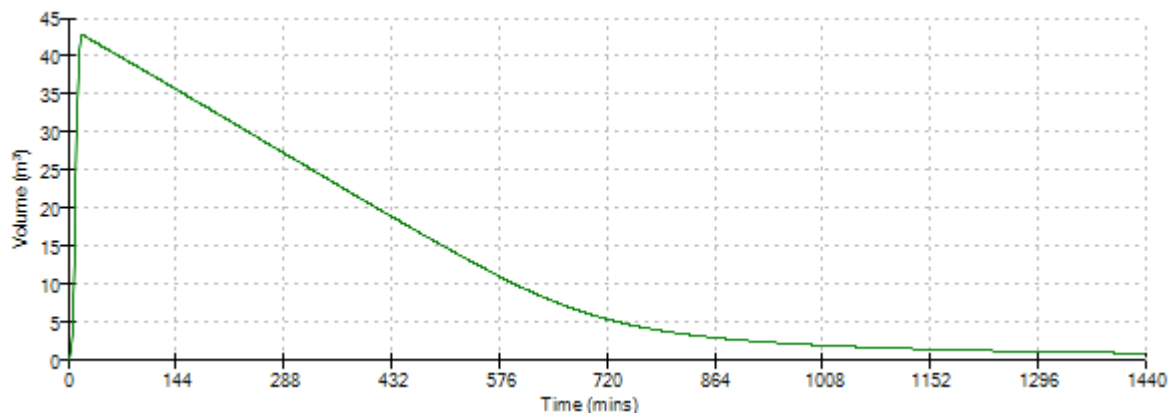
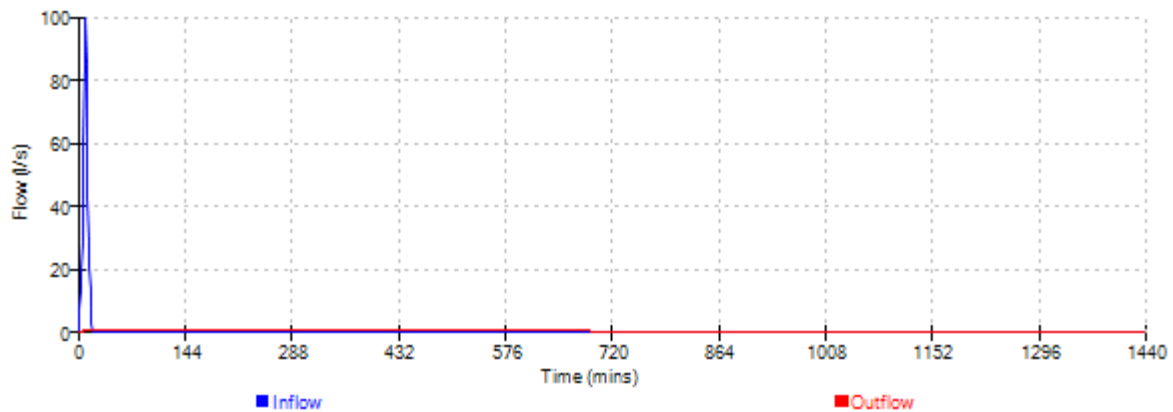
Easy Flood Risk		Page 24
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Summer



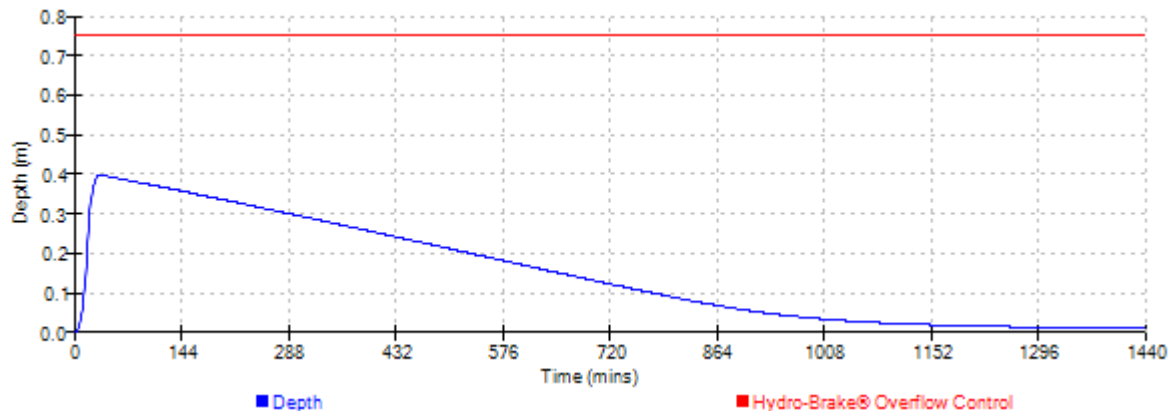
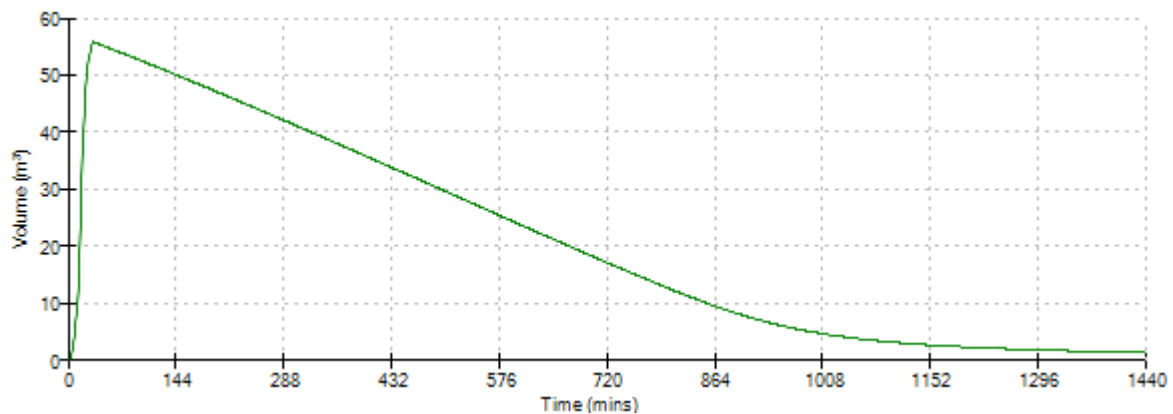
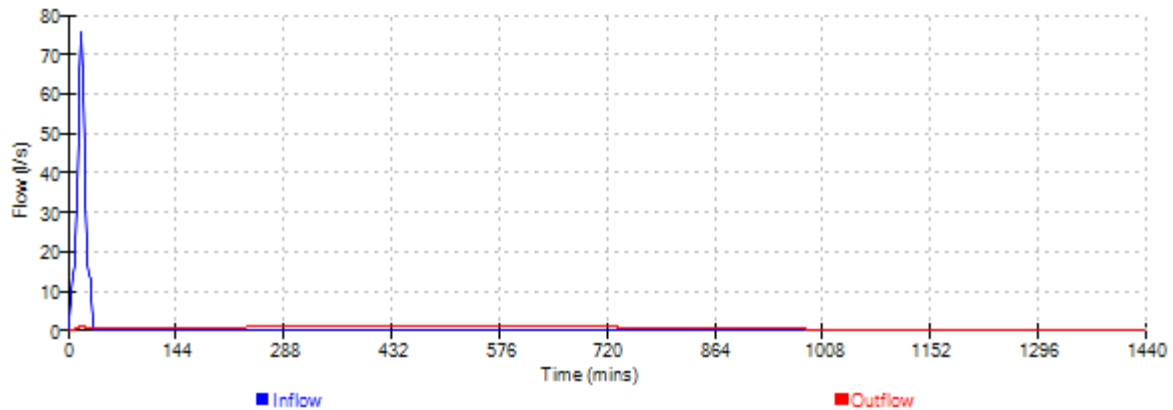
Easy Flood Risk		Page 25
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 15 min Winter



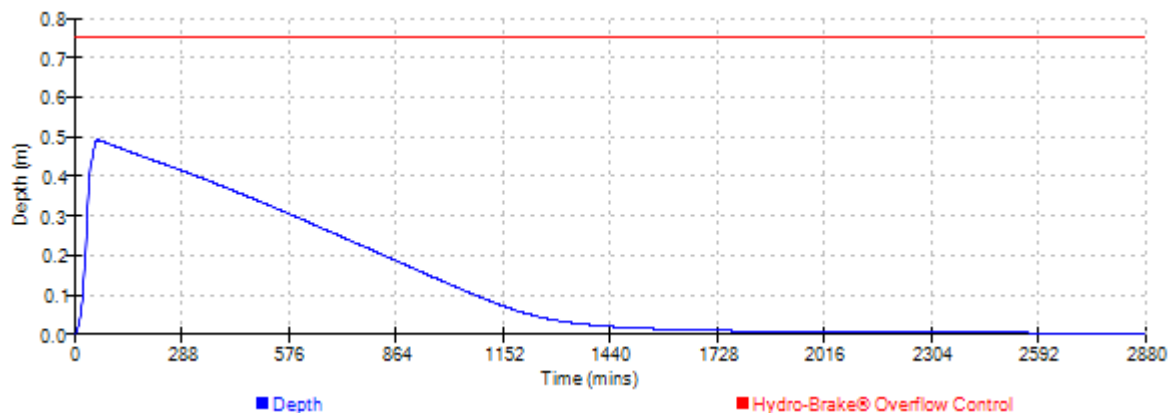
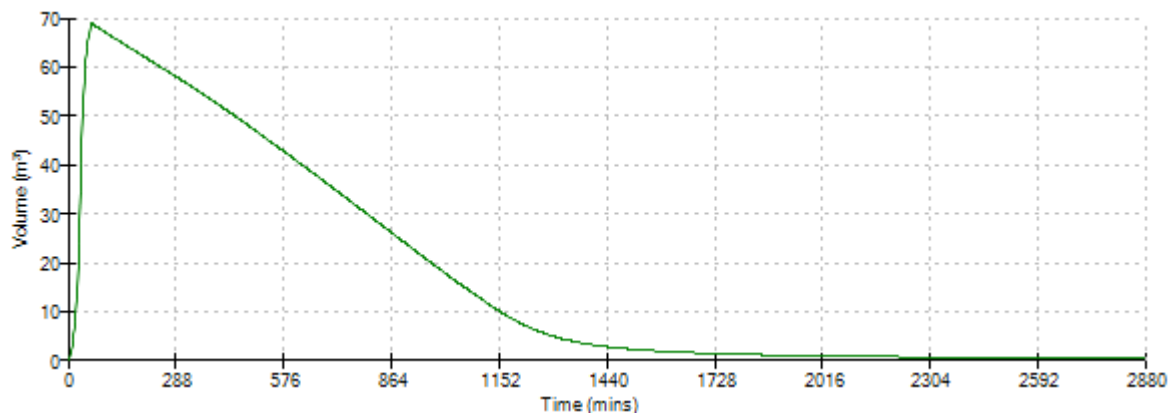
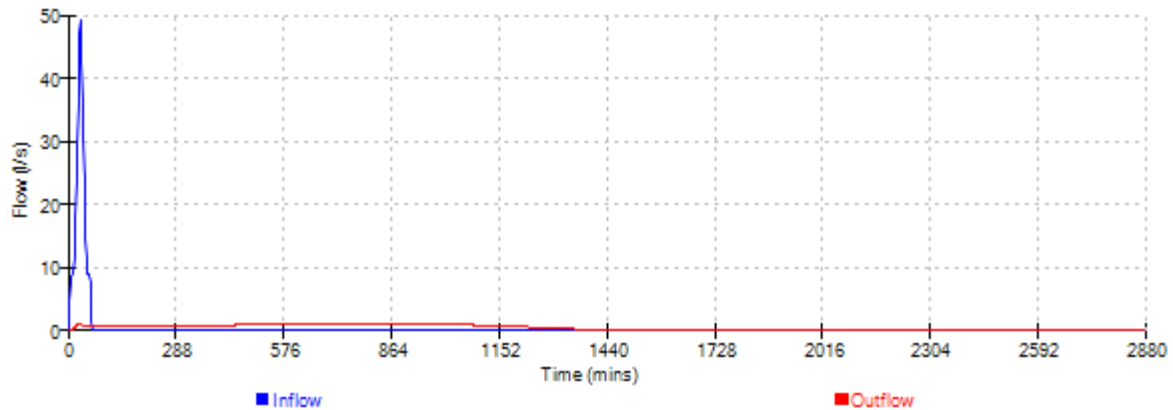
Easy Flood Risk		Page 26
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 30 min Winter



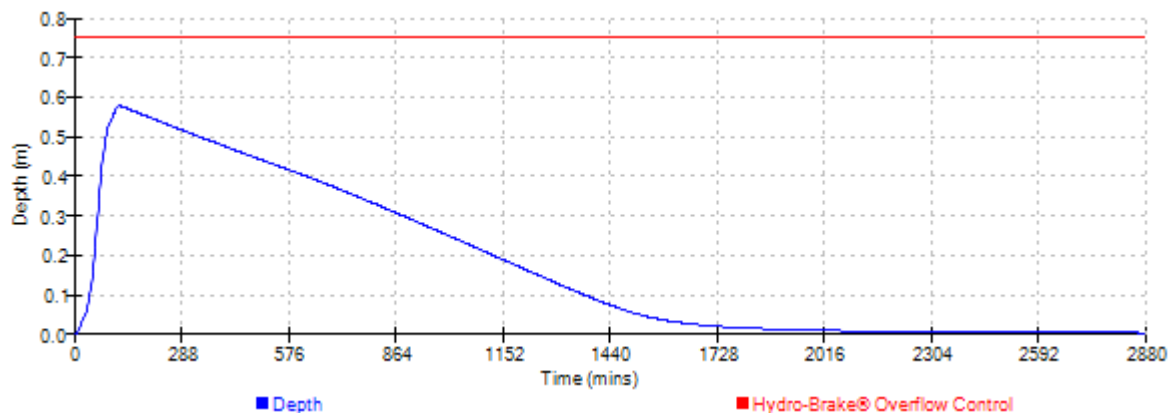
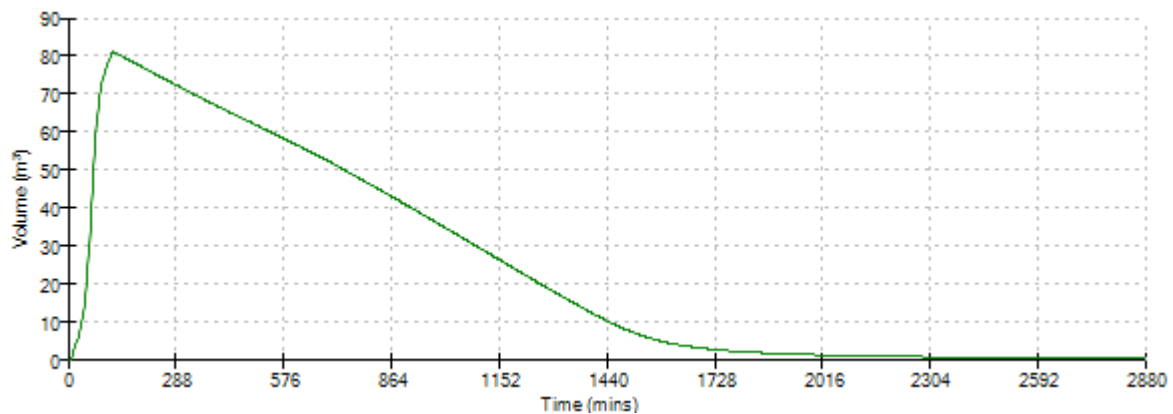
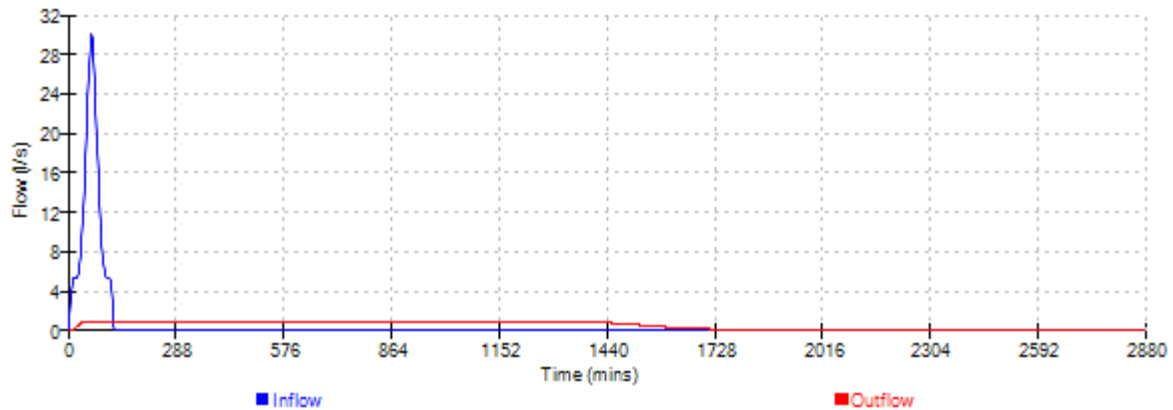
Easy Flood Risk		Page 27
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 60 min Winter



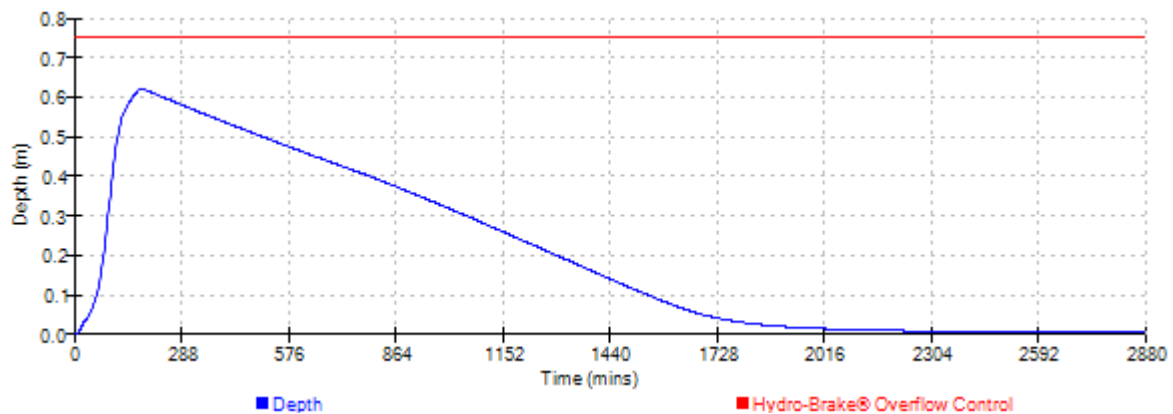
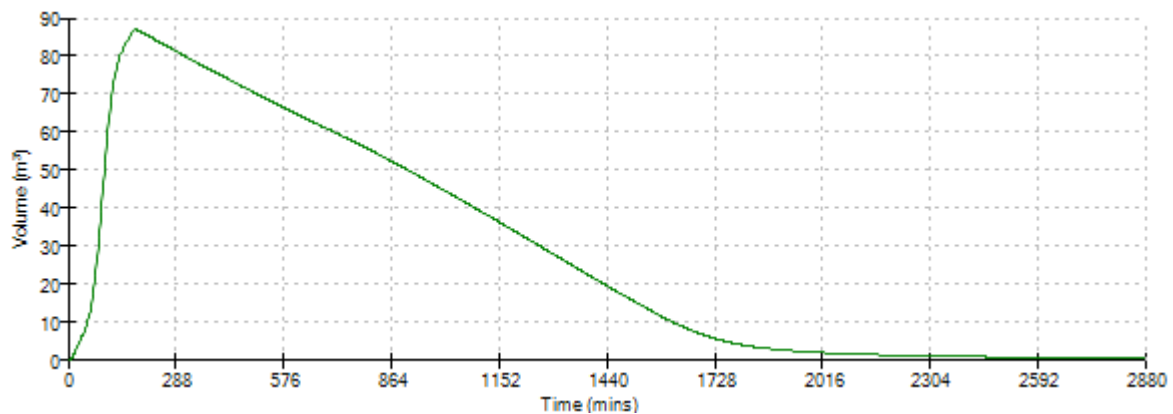
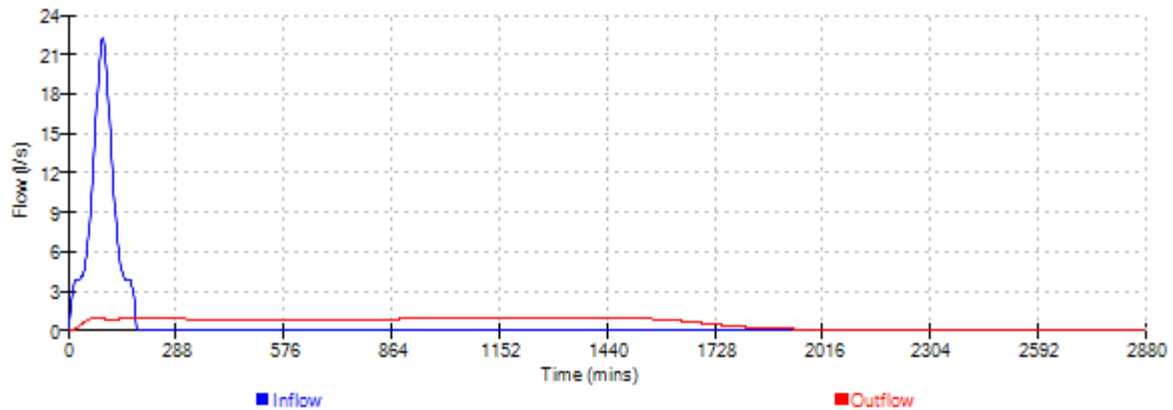
Easy Flood Risk		Page 28
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze		Source Control 2020.1

Event: 120 min Winter



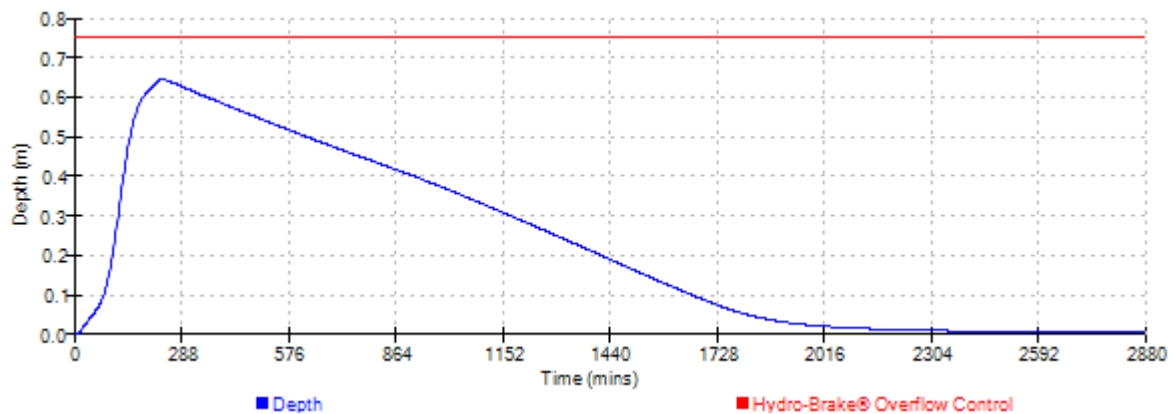
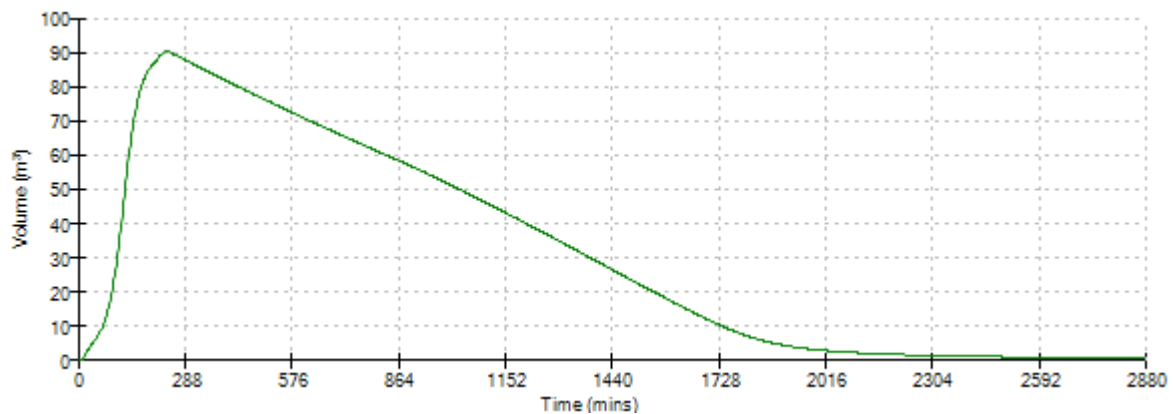
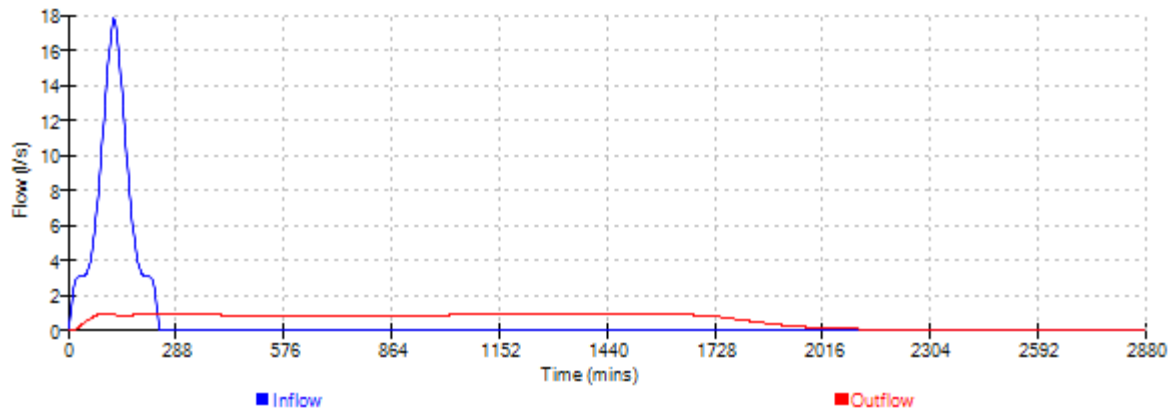
Easy Flood Risk		Page 29
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 180 min Winter



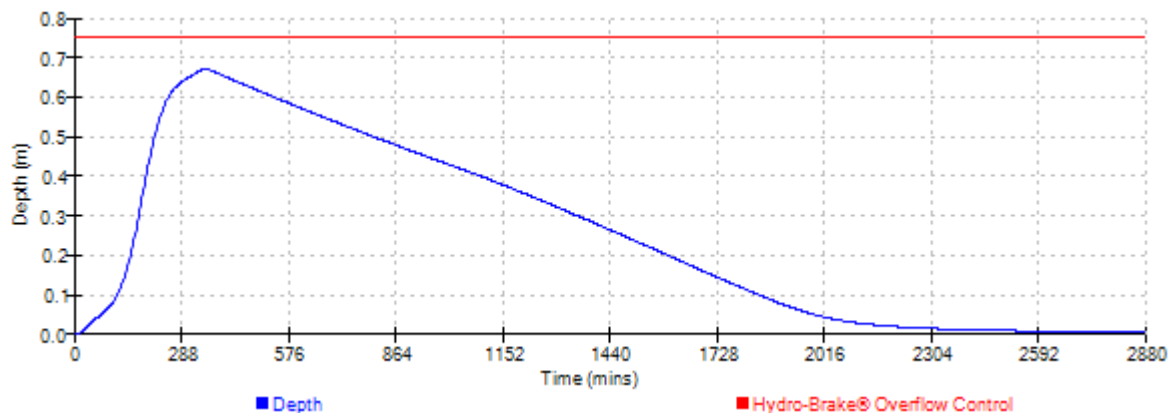
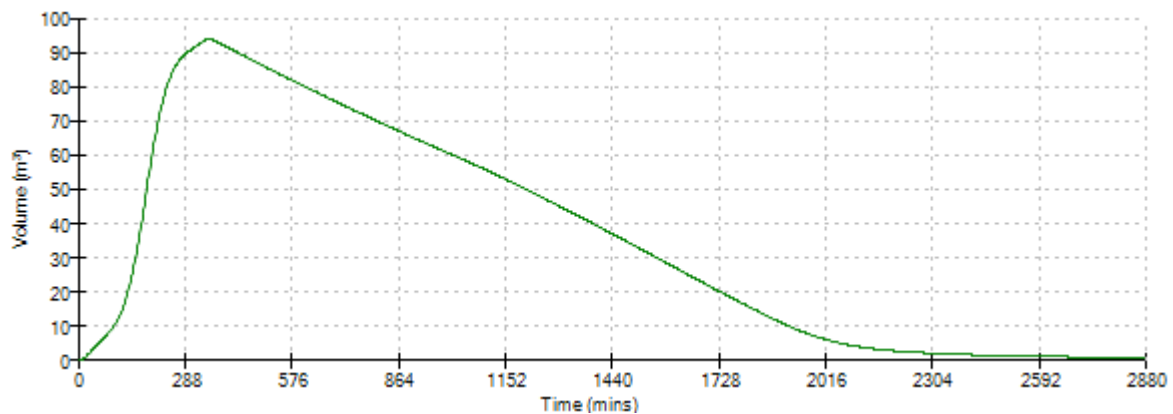
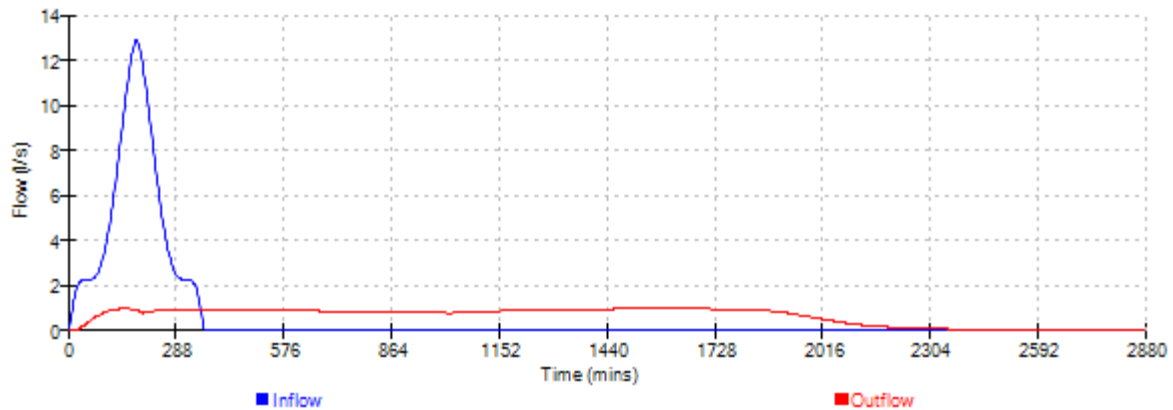
Easy Flood Risk		Page 30
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 240 min Winter



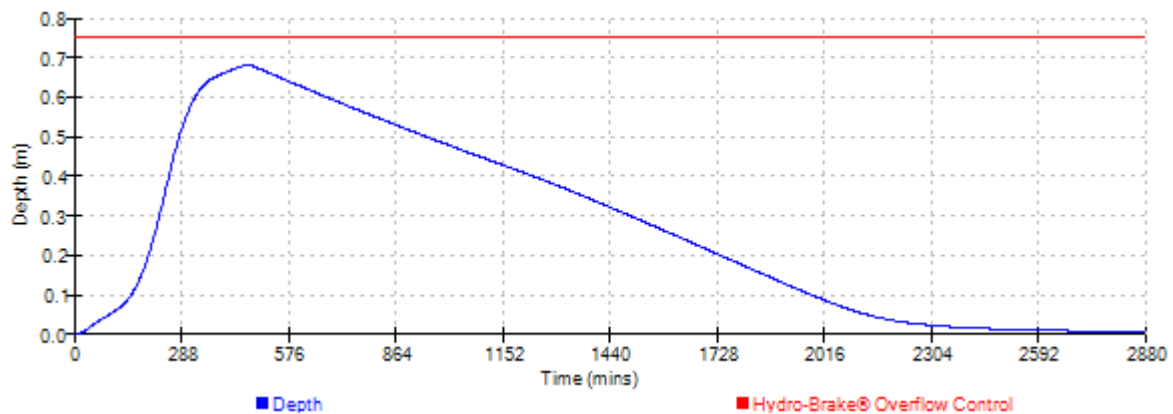
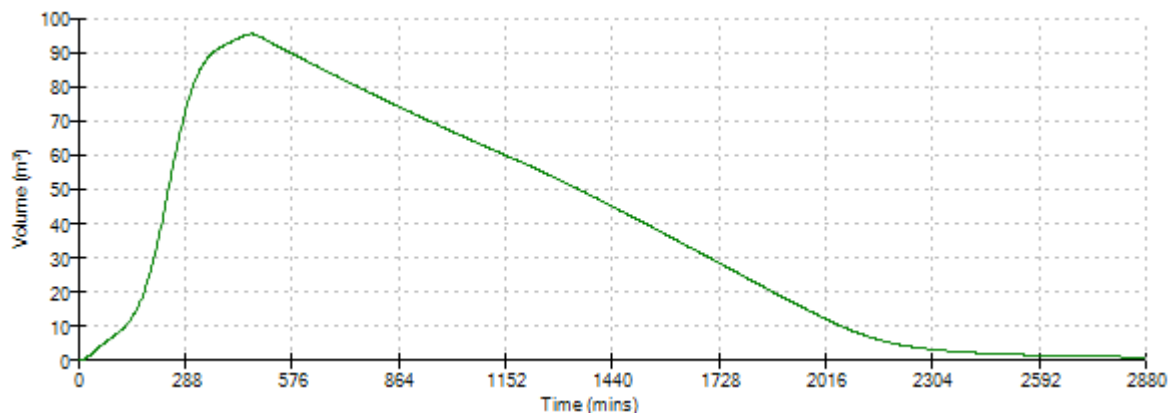
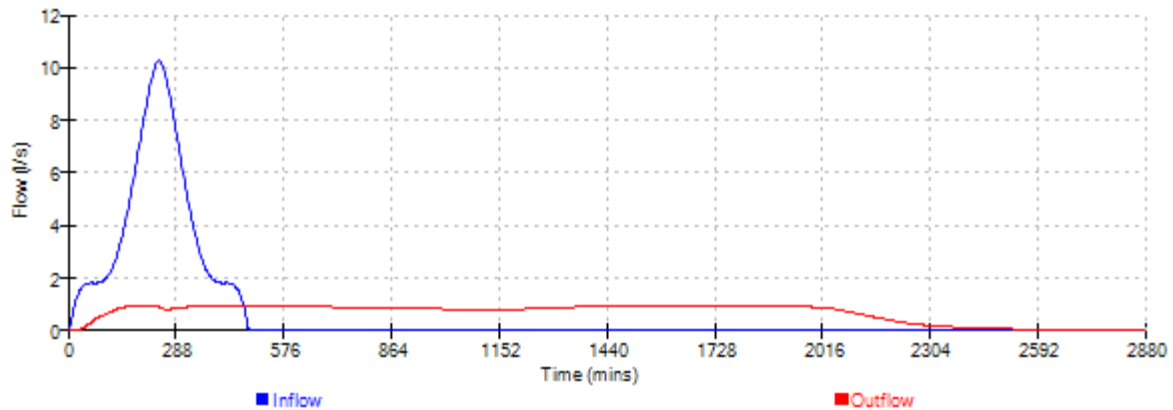
Easy Flood Risk		Page 31
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 360 min Winter



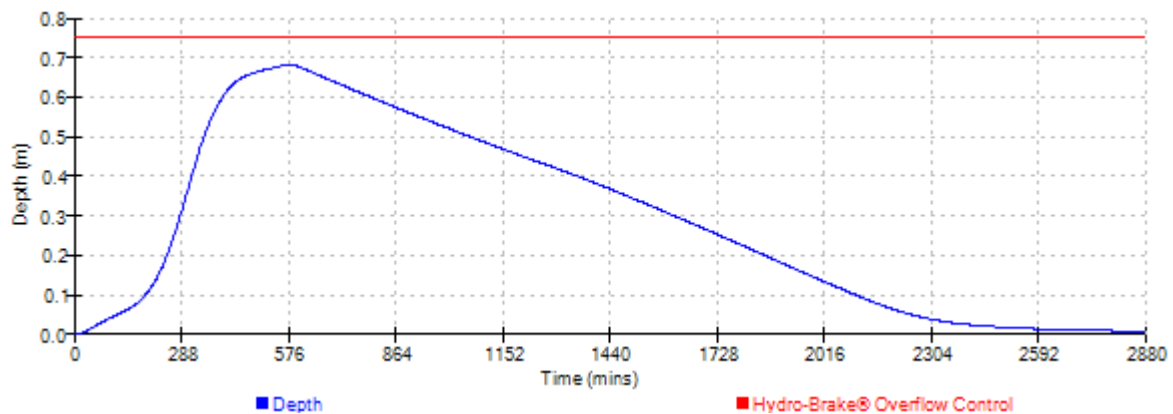
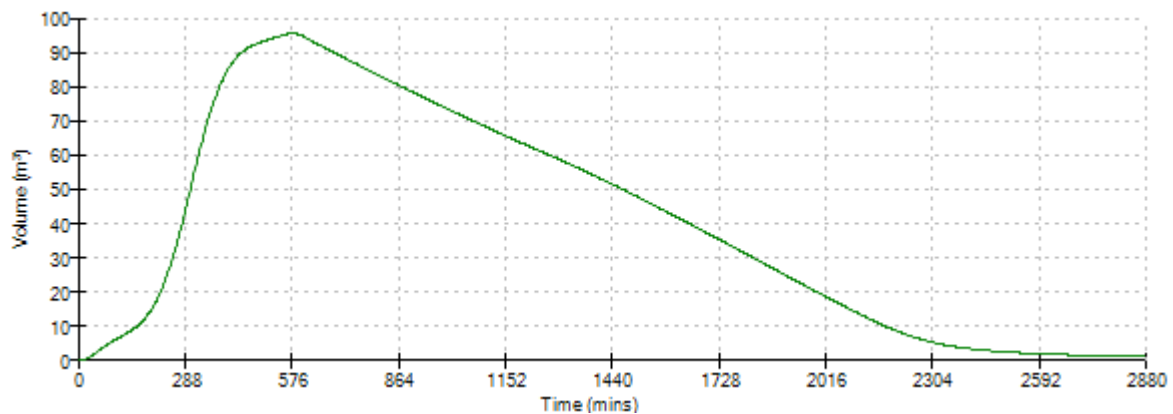
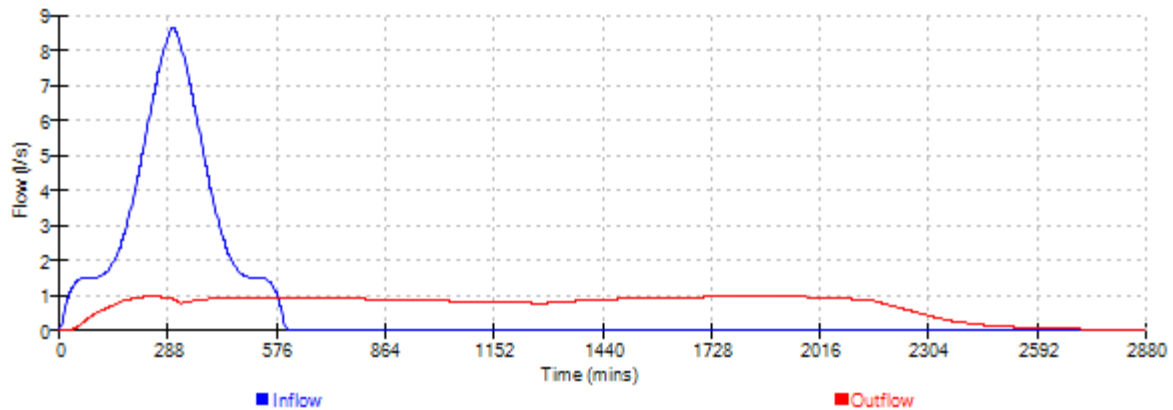
Easy Flood Risk		Page 32
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 480 min Winter



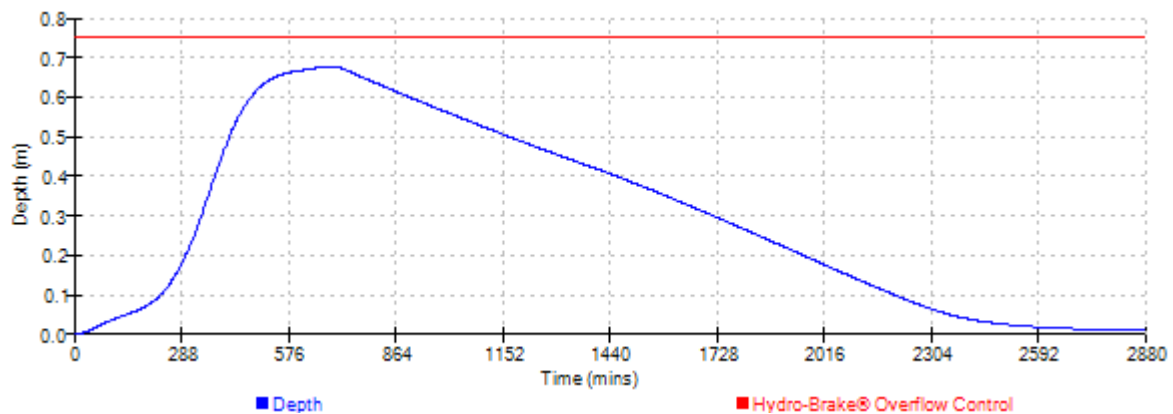
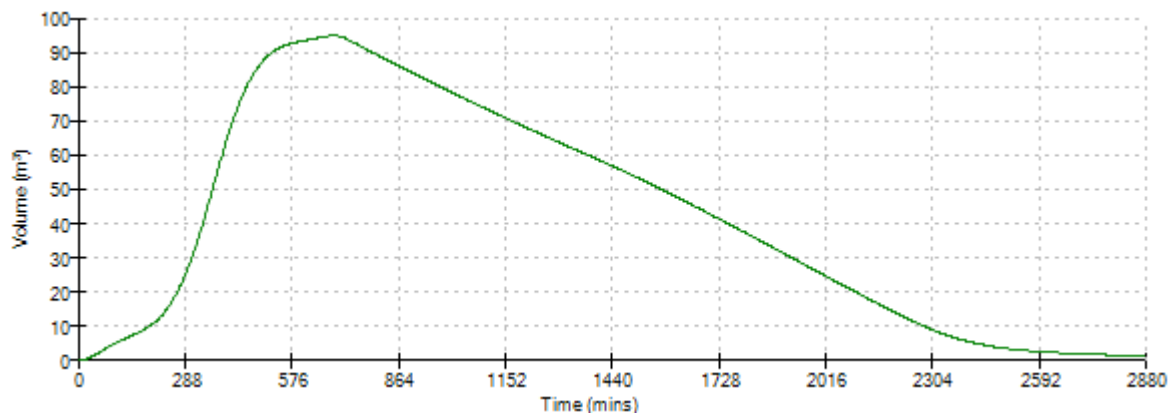
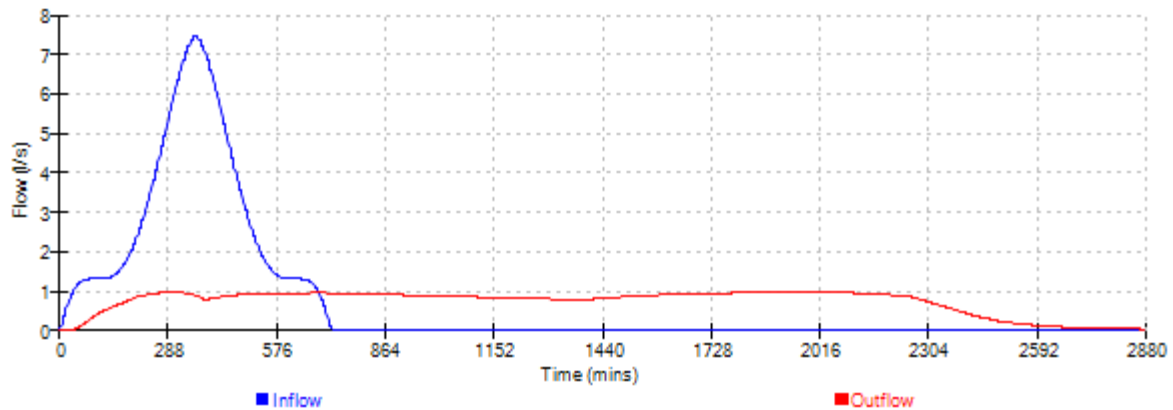
Easy Flood Risk		Page 33
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 600 min Winter



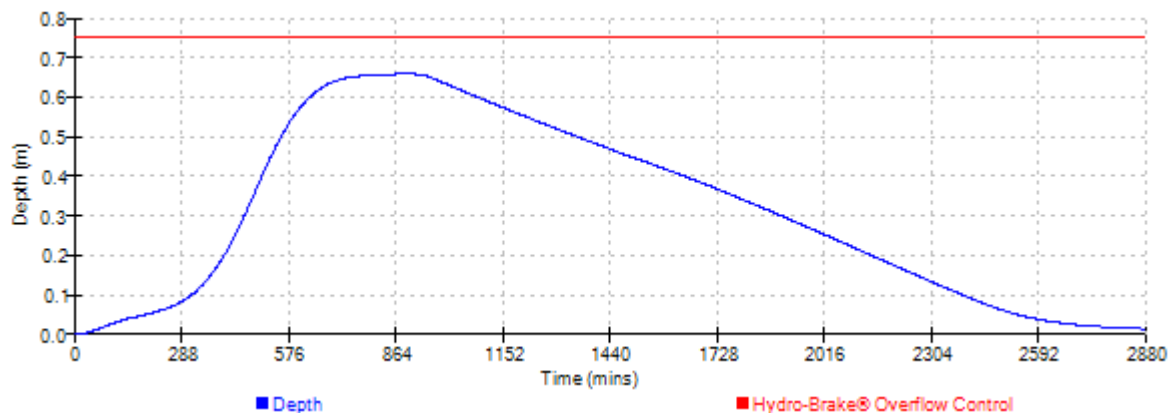
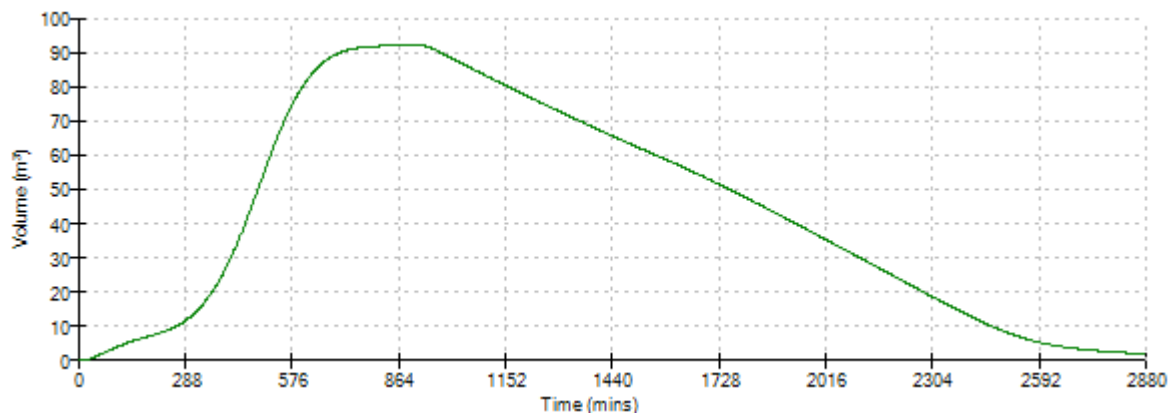
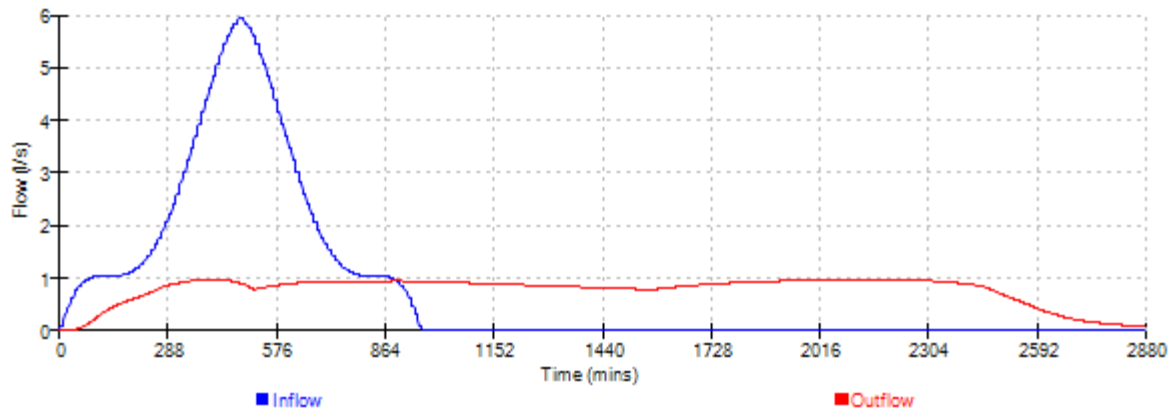
Easy Flood Risk		Page 34
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 720 min Winter



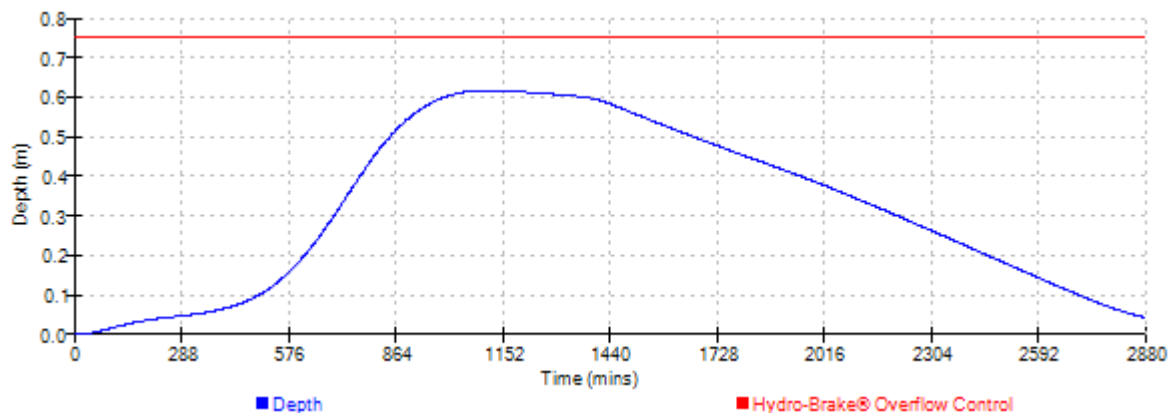
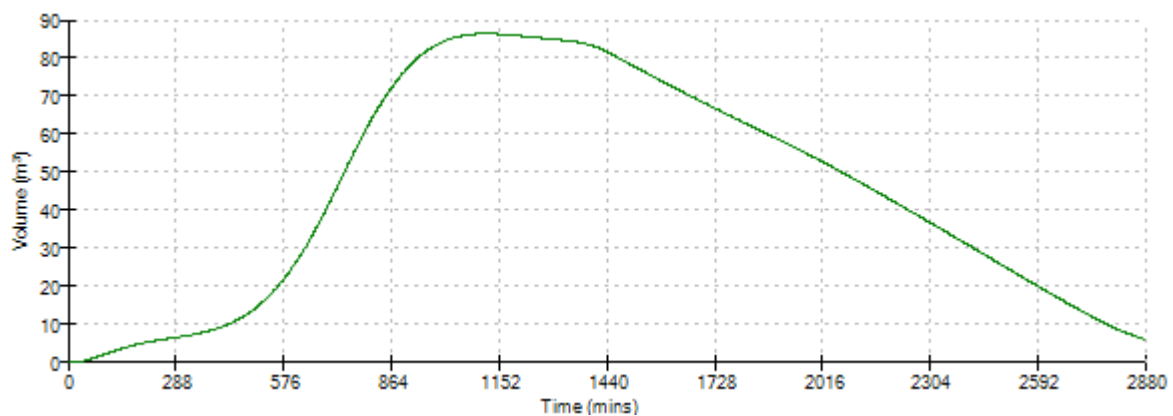
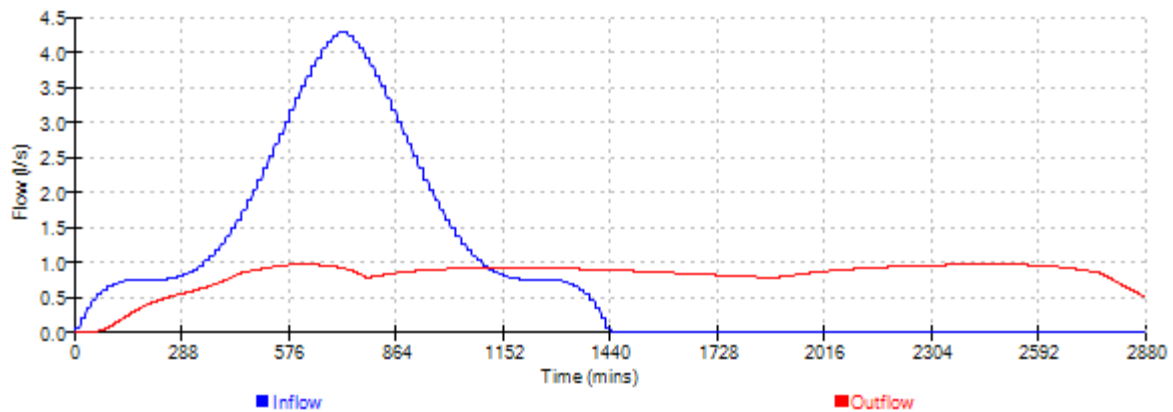
Easy Flood Risk		Page 35
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 960 min Winter



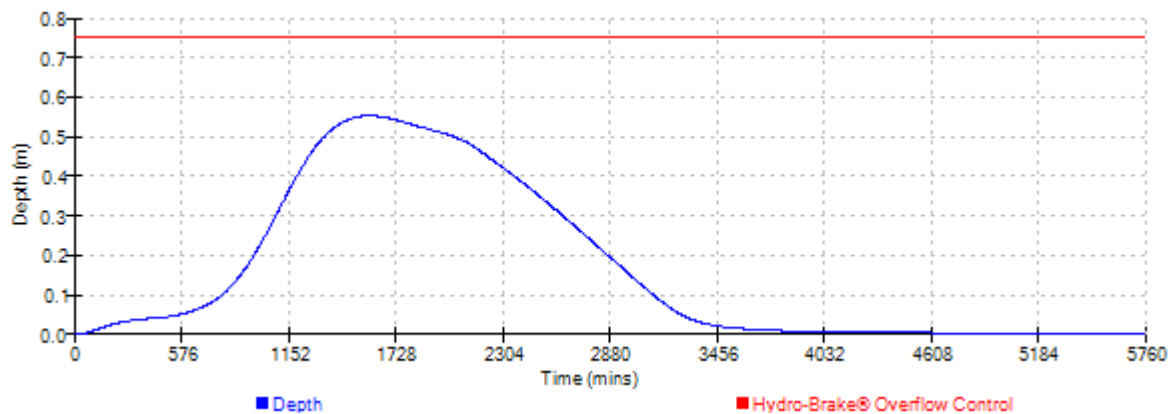
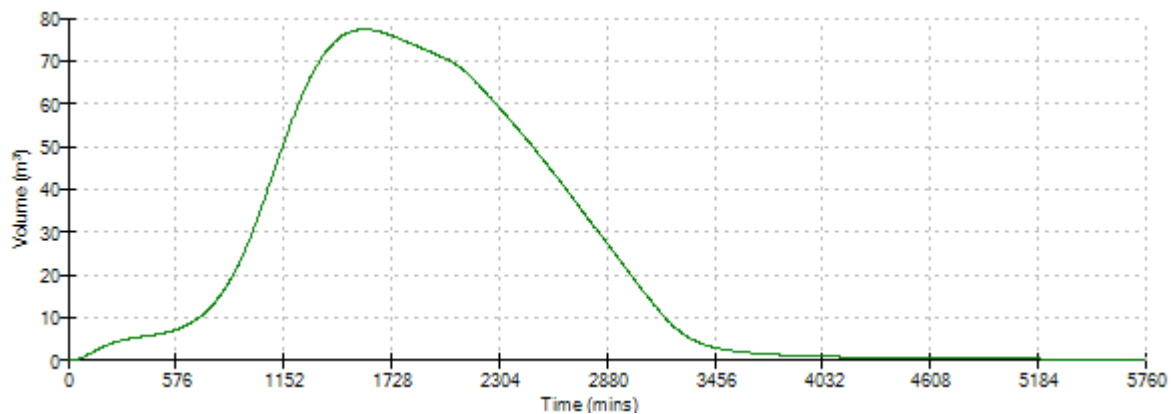
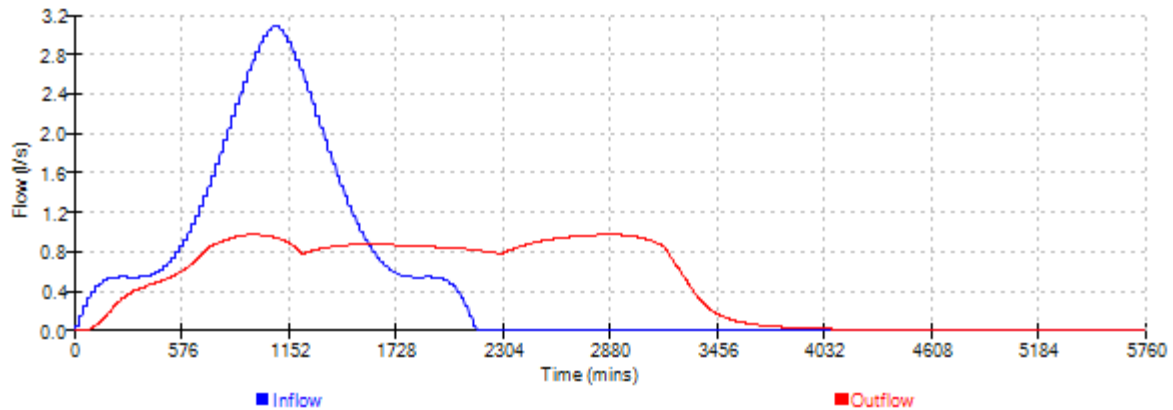
Easy Flood Risk		Page 36
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Winter



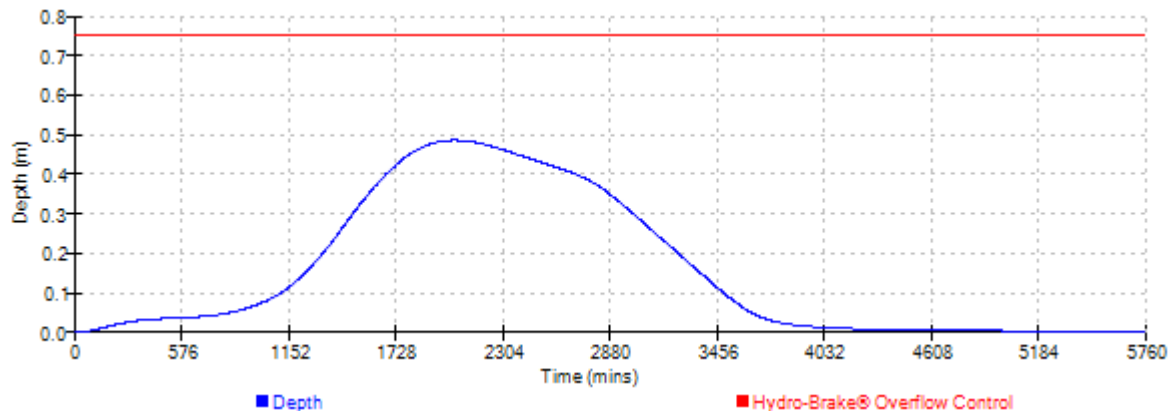
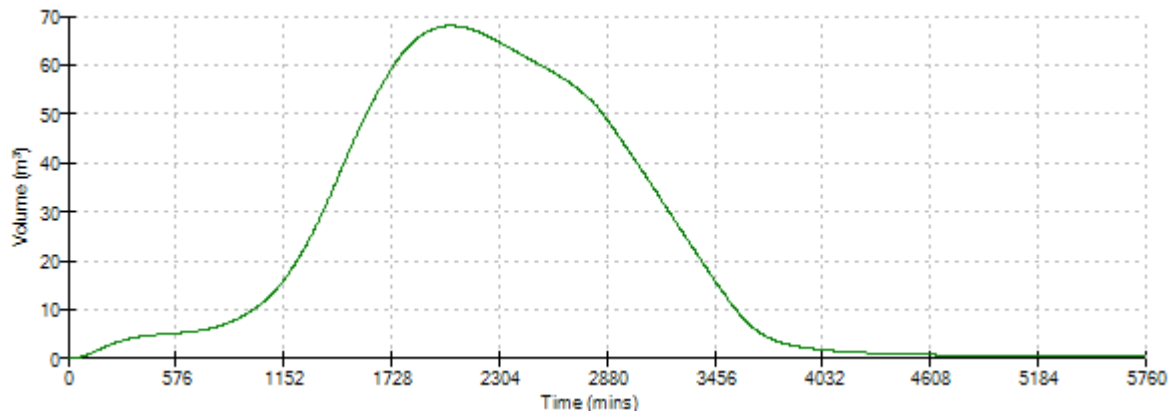
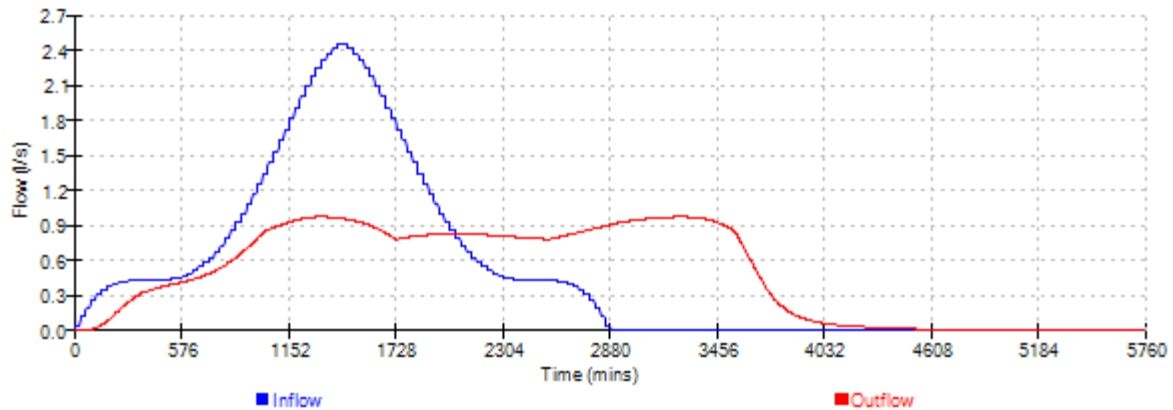
Easy Flood Risk		Page 37
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Winter



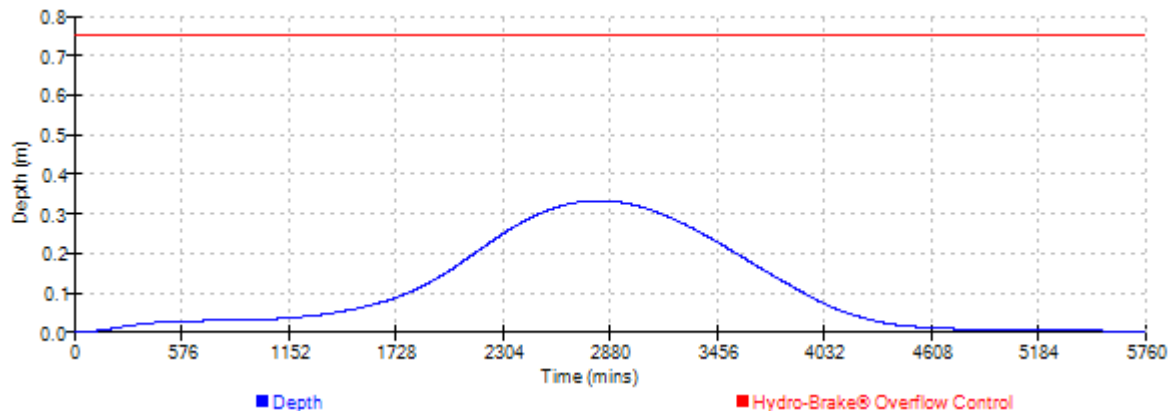
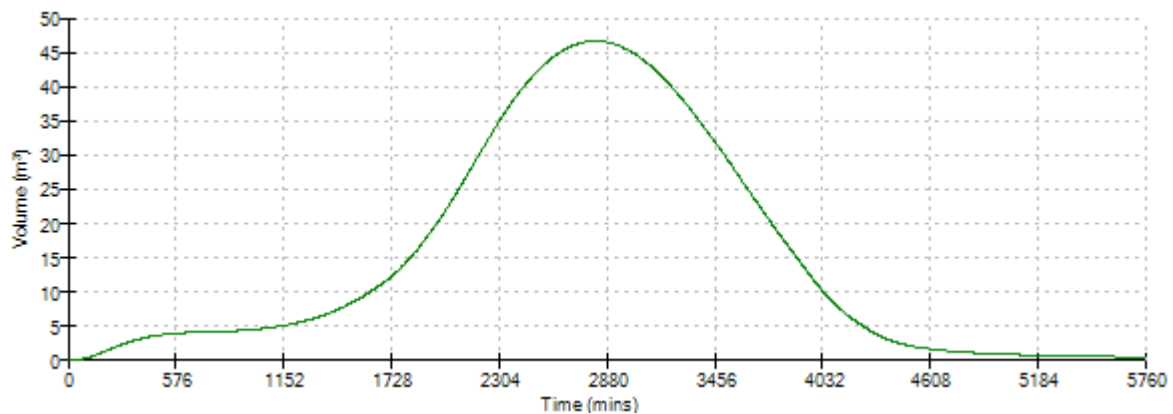
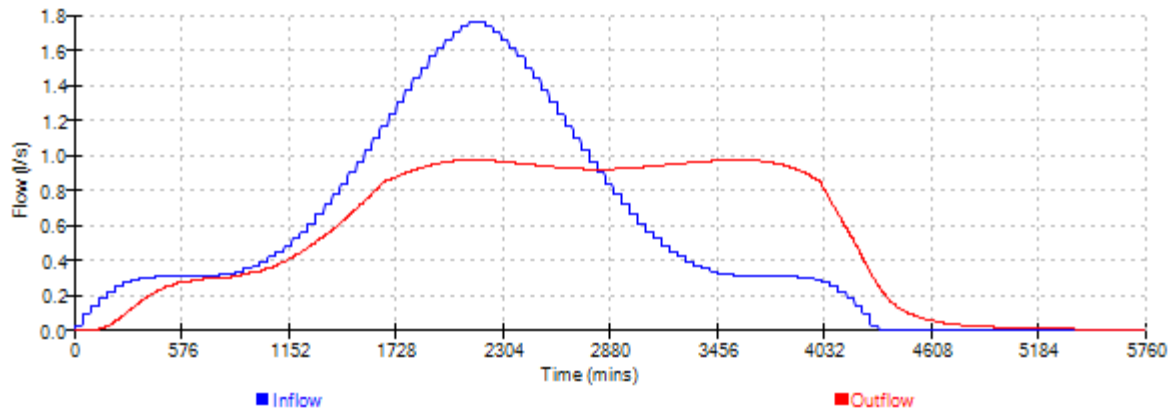
Easy Flood Risk		Page 38
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Winter



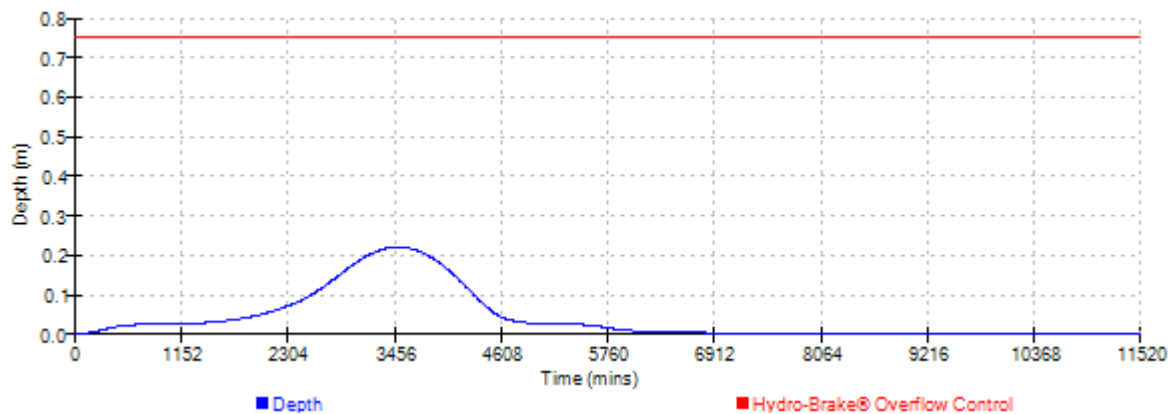
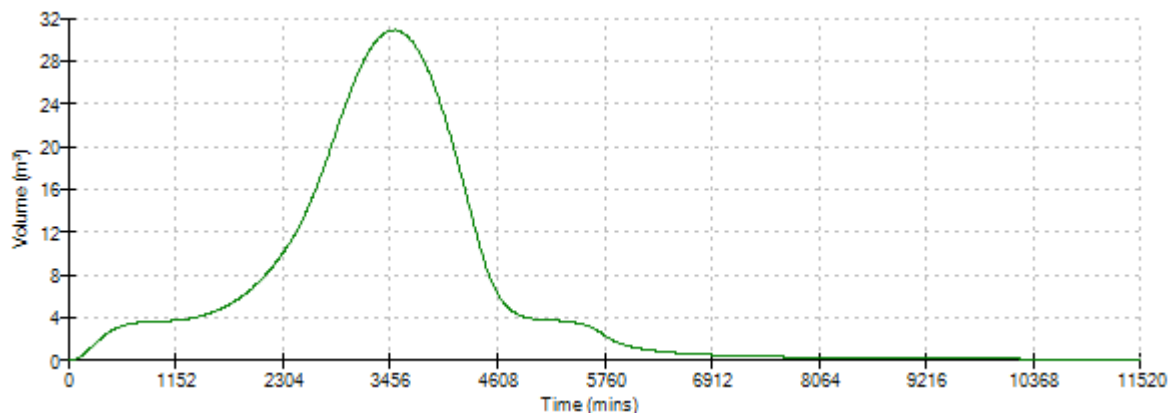
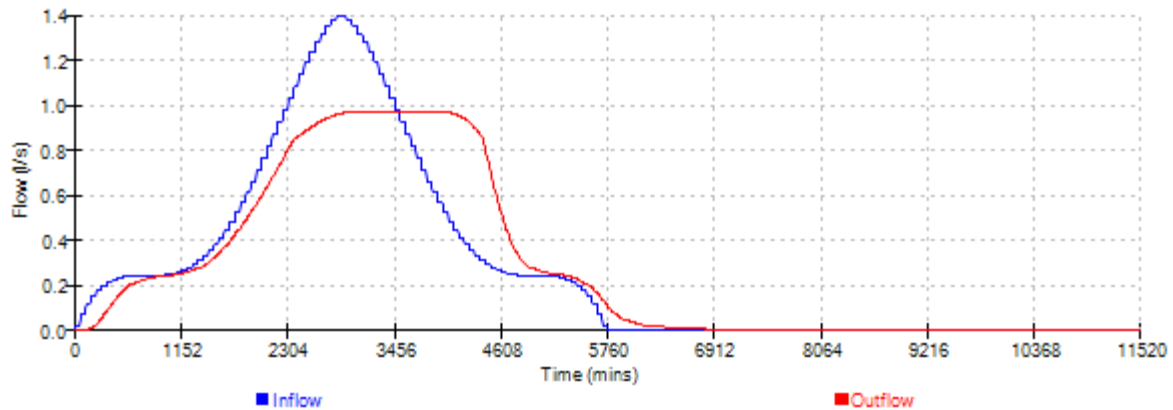
Easy Flood Risk		Page 39
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Winter



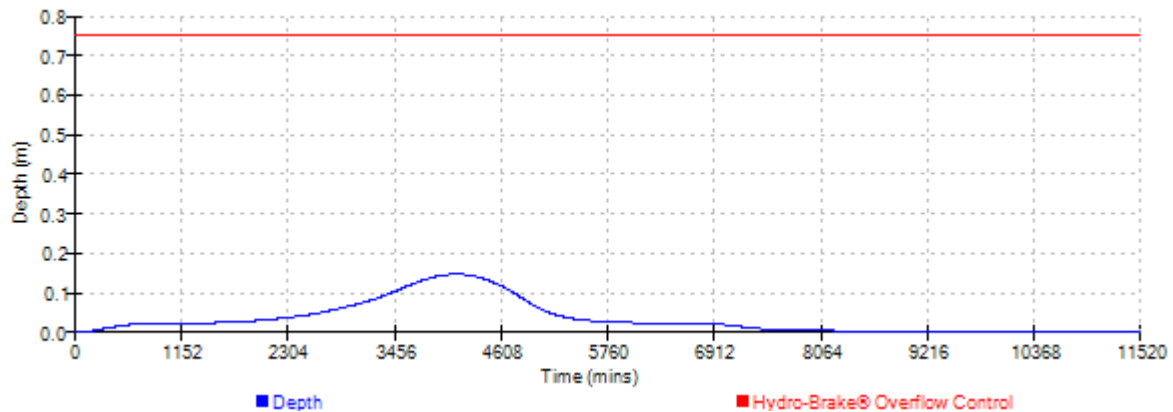
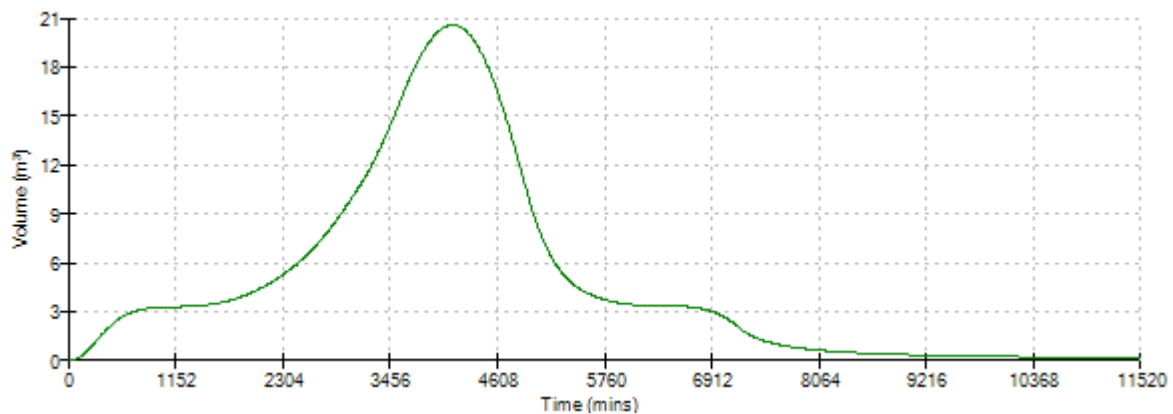
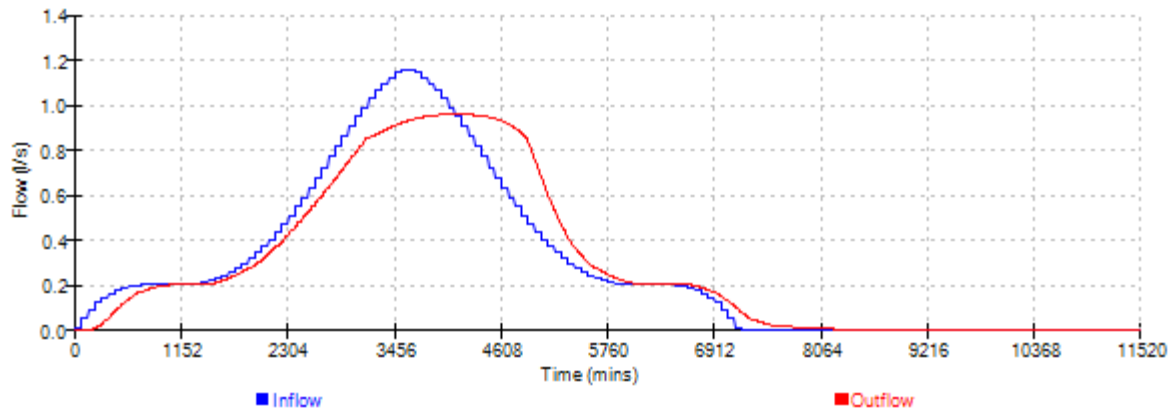
Easy Flood Risk		Page 40
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Winter



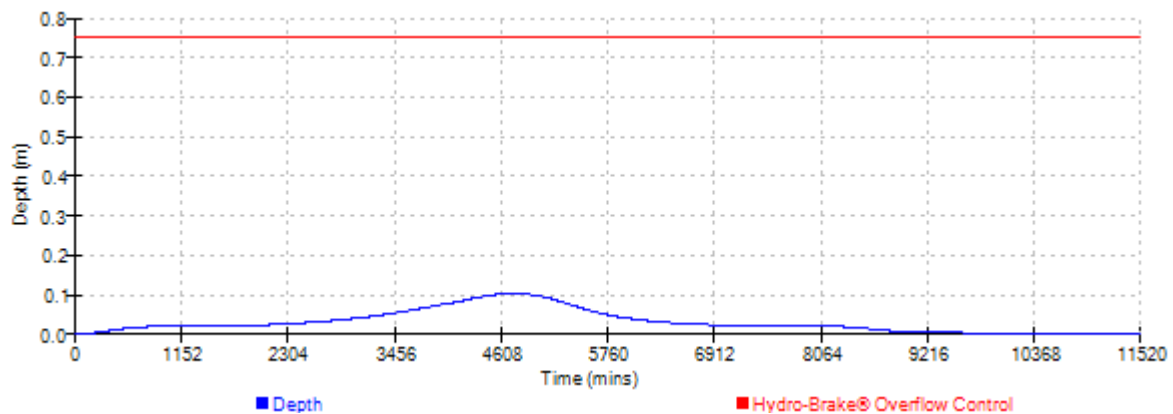
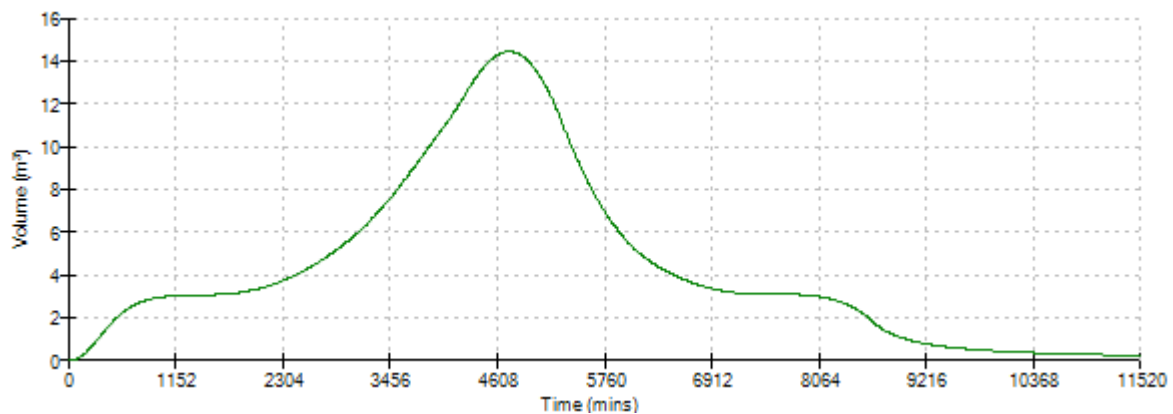
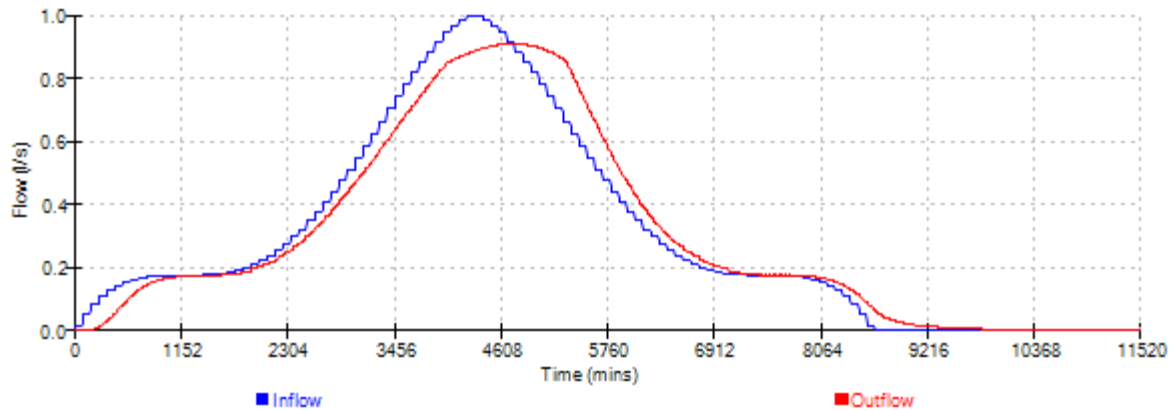
Easy Flood Risk		Page 41
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Winter



Easy Flood Risk		Page 42
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:40 File Nutts Lane.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 24/01/2023 06:40 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Winter

