

Dixon Hurst Kemp		Page 2
Victoria Court 22 St Pancras West Sussex PO19 7GD	Hurst Road, Hassocks Surface Water Drainage Rain Garden Design Rev04	
Date Nov 25 File Rain Garden storage ...	Designed by JS Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Summary of Results for 100 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
360 min Winter	63.213	0.113	0.1	0.0	0.1	0.3	OK
480 min Winter	63.189	0.089	0.1	0.0	0.1	0.2	OK
600 min Winter	63.169	0.069	0.1	0.0	0.1	0.2	OK
720 min Winter	63.155	0.055	0.1	0.0	0.1	0.2	OK
960 min Winter	63.144	0.044	0.1	0.0	0.1	0.1	OK
1440 min Winter	63.133	0.033	0.0	0.0	0.0	0.1	OK
2160 min Winter	63.124	0.024	0.0	0.0	0.0	0.1	OK
2880 min Winter	63.120	0.020	0.0	0.0	0.0	0.1	OK
4320 min Winter	63.114	0.014	0.0	0.0	0.0	0.0	OK
5760 min Winter	63.111	0.011	0.0	0.0	0.0	0.0	OK
7200 min Winter	63.110	0.010	0.0	0.0	0.0	0.0	OK
8640 min Winter	63.108	0.008	0.0	0.0	0.0	0.0	OK
10080 min Winter	63.107	0.007	0.0	0.0	0.0	0.0	OK

Storm Event	Rain (mm/hr)	Overflow Volume (m³)	Time-Peak (mins)
360 min Winter	15.967	0.0	242
480 min Winter	12.831	0.0	304
600 min Winter	10.820	0.0	362
720 min Winter	9.407	0.0	410
960 min Winter	7.537	0.0	518
1440 min Winter	5.504	0.0	760
2160 min Winter	4.010	0.0	1124
2880 min Winter	3.199	0.0	1484
4320 min Winter	2.322	0.0	2140
5760 min Winter	1.848	0.0	2944
7200 min Winter	1.549	0.0	3688
8640 min Winter	1.341	0.0	4328
10080 min Winter	1.188	0.0	5144

Dixon Hurst Kemp		Page 3
Victoria Court 22 St Pancras West Sussex PO19 7GD	Hurst Road, Hassocks Surface Water Drainage Rain Garden Design Rev04	
Date Nov 25 File Rain Garden storage ...	Designed by JS Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.347	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time / Area Diagram

Total Area (ha) 0.001

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.000	4-8	0.000	8-12	0.000

Dixon Hurst Kemp		Page 4
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Model Details

Storage is Online Cover Level (m) 63.800

Infiltration Blanket Structure

Infiltration Coefficient Base (m/hr) 0.04461

Safety Factor 2.0

Porosity 0.30

Invert Level (m) 63.100

Diameter/Width (m) 1.2

Length (m) 7.7

Cap Volume Depth (m) 0.000

Depth/Flow Relationship Overflow Control

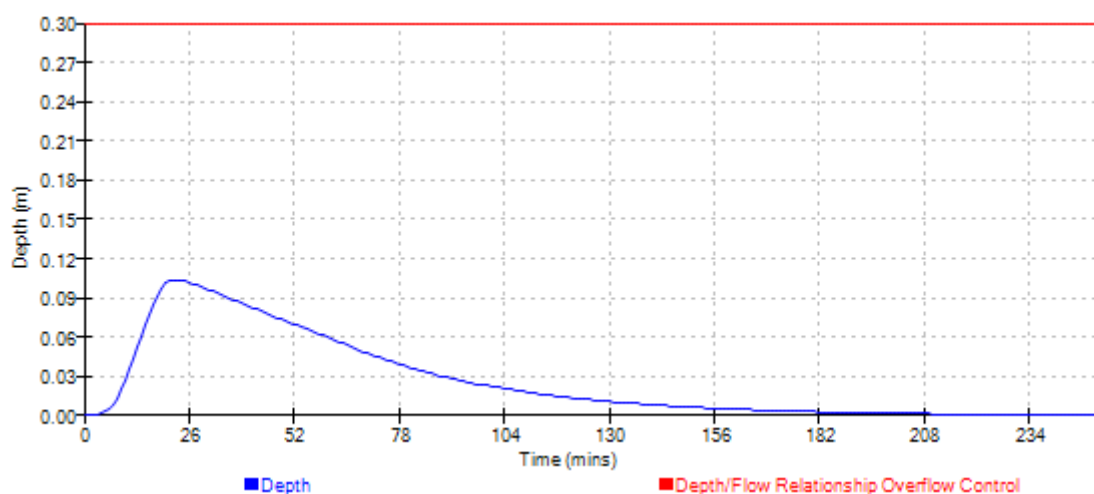
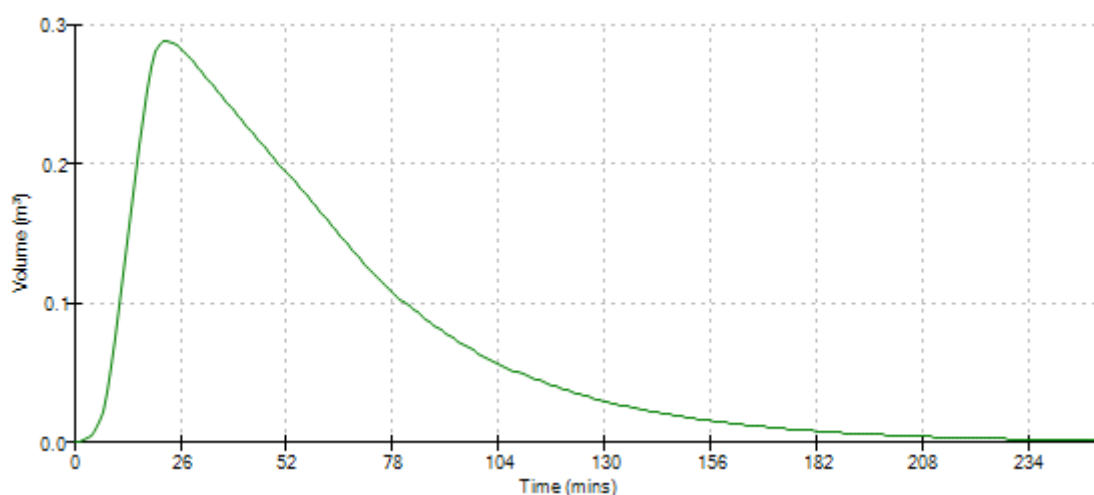
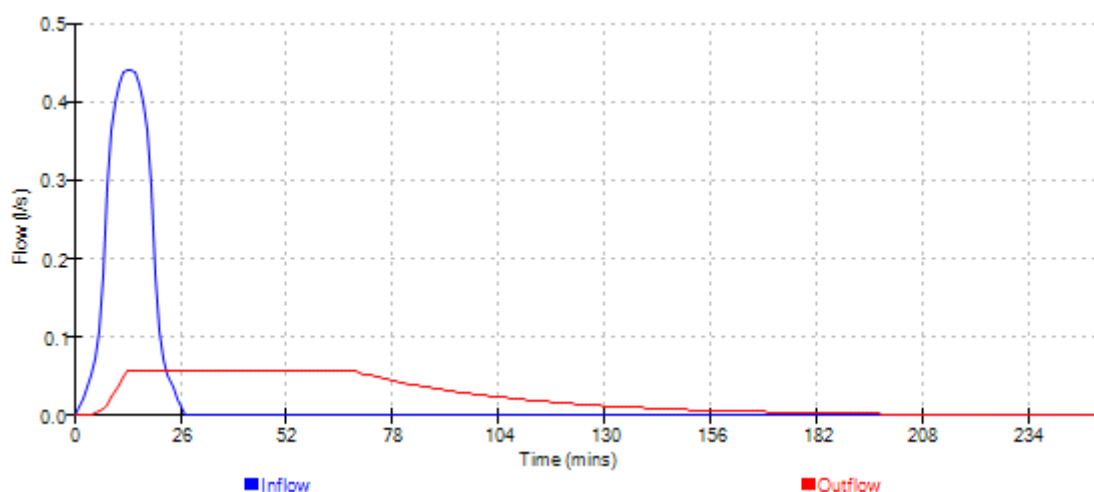
Invert Level (m) 63.400

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.200	0.0000	0.700	0.0400

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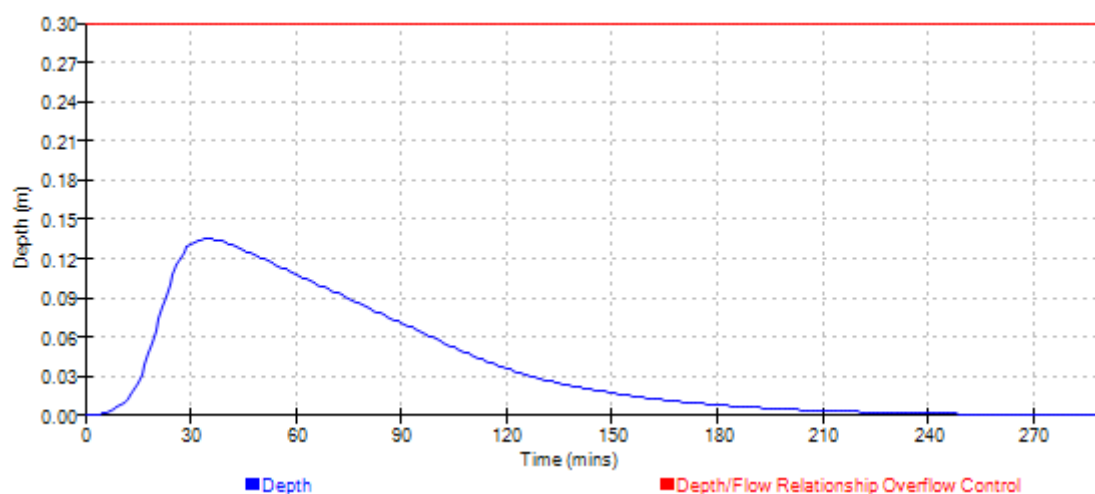
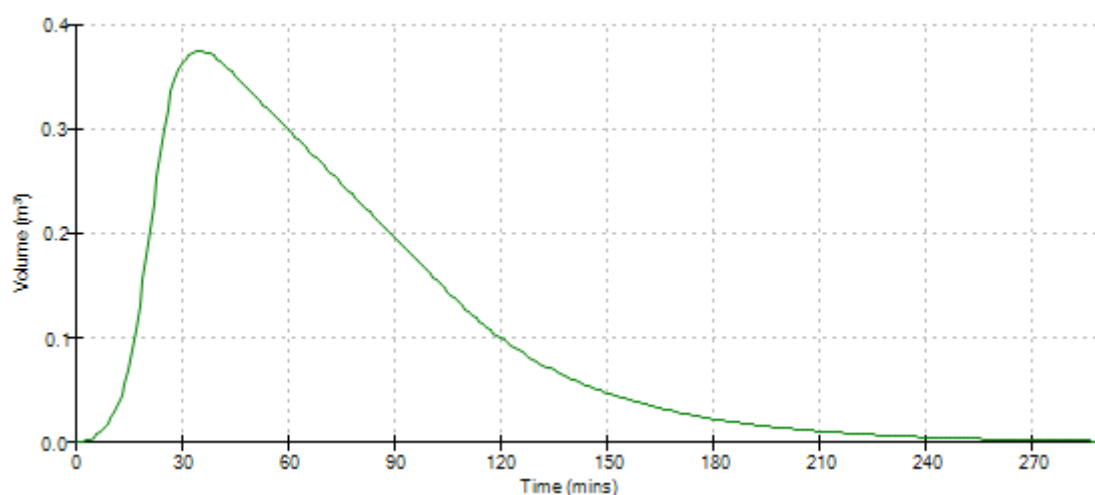
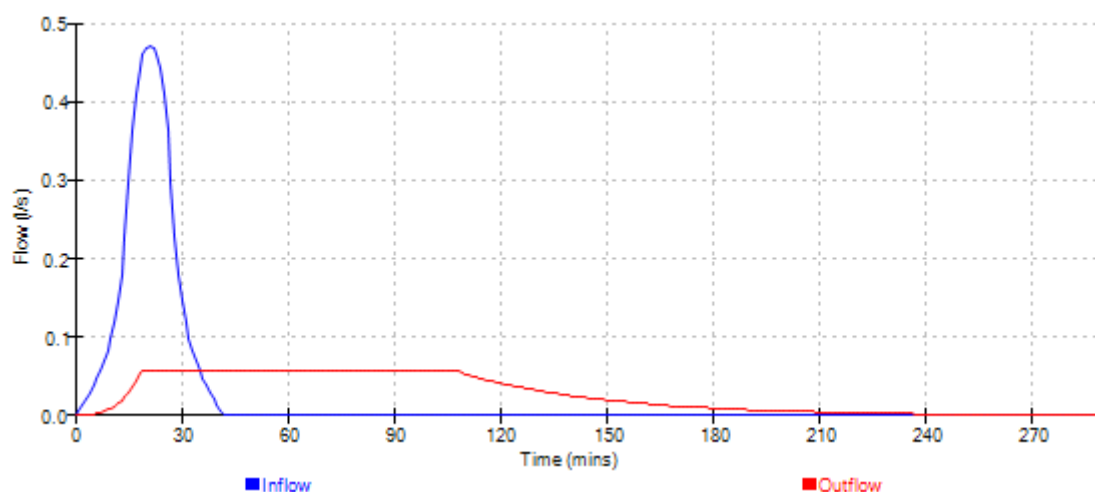
Dixon Hurst Kemp		Page 5
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 15 min Summer



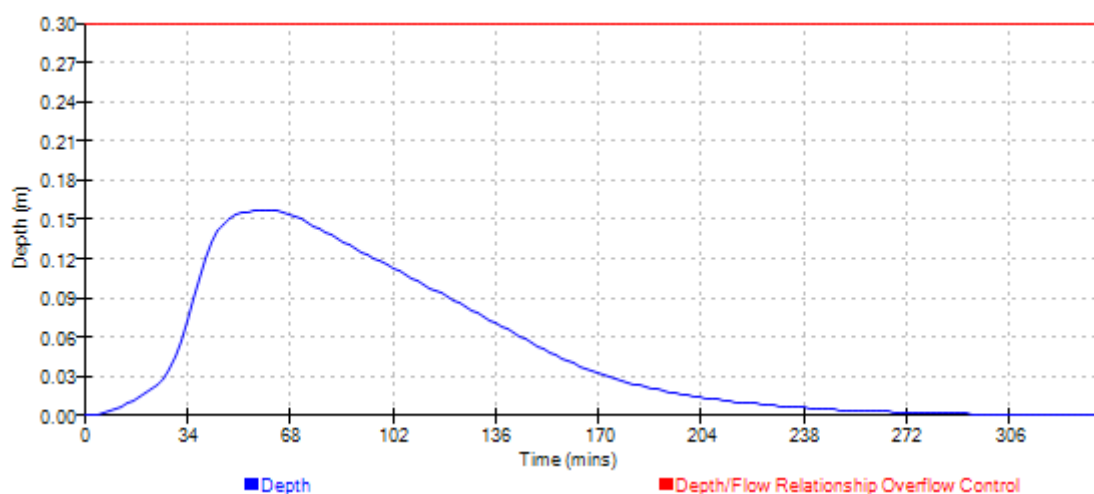
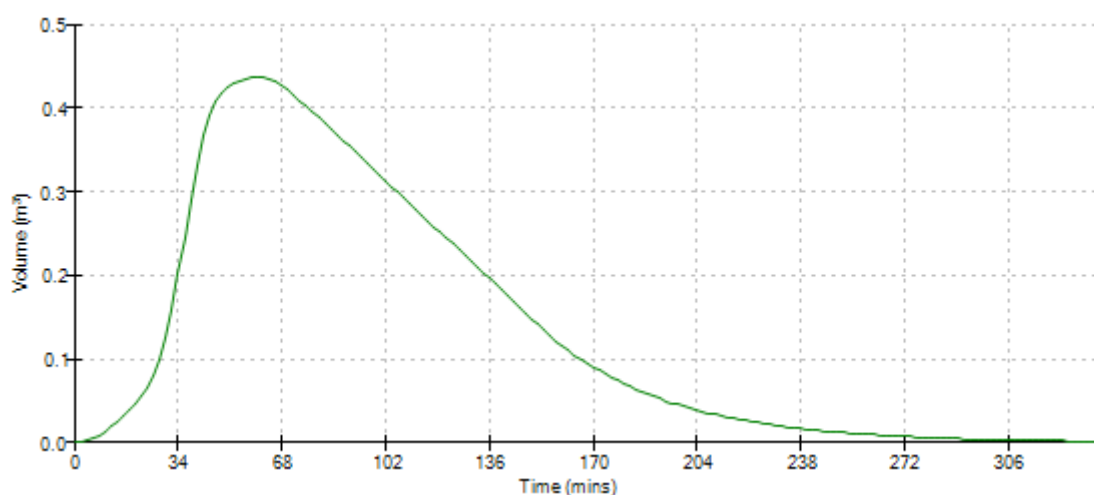
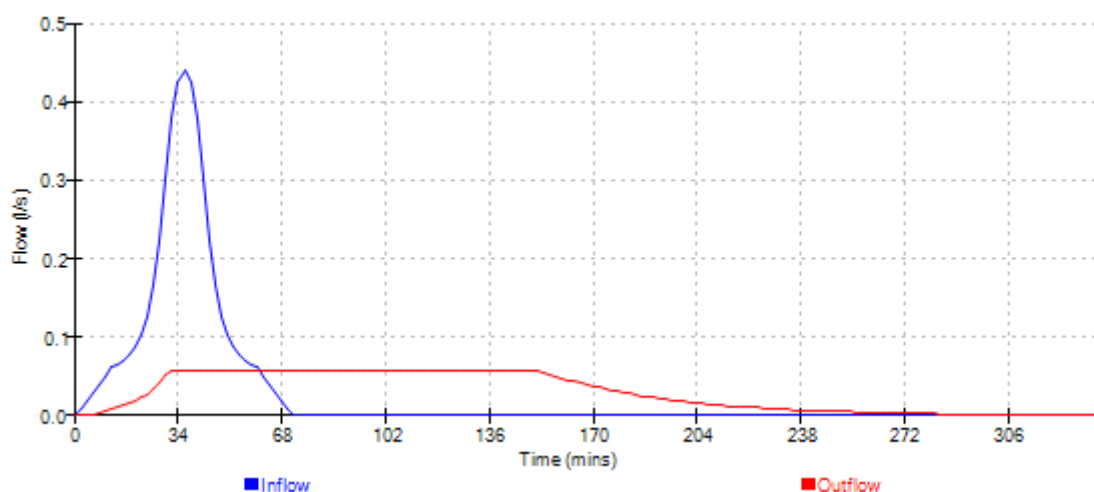
Dixon Hurst Kemp		Page 6
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 30 min Summer



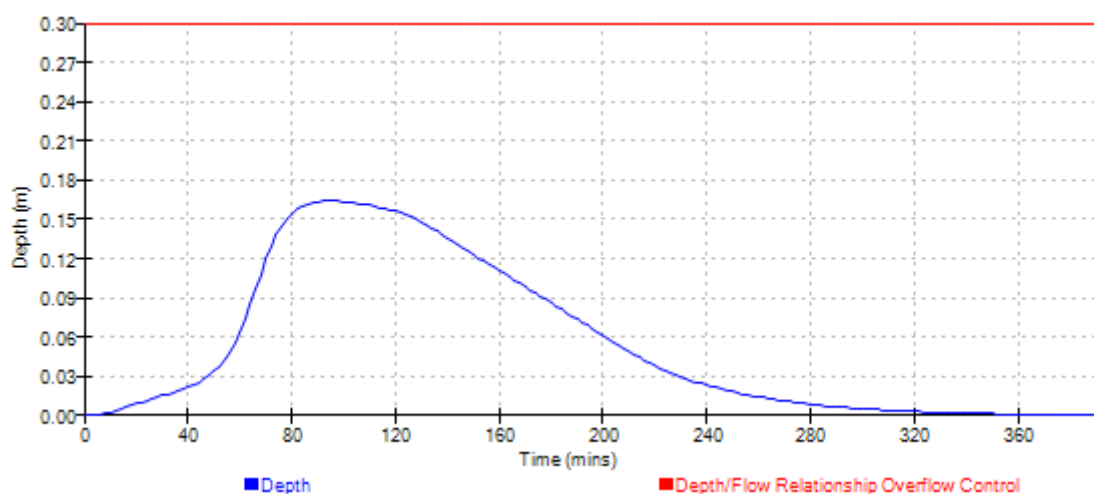
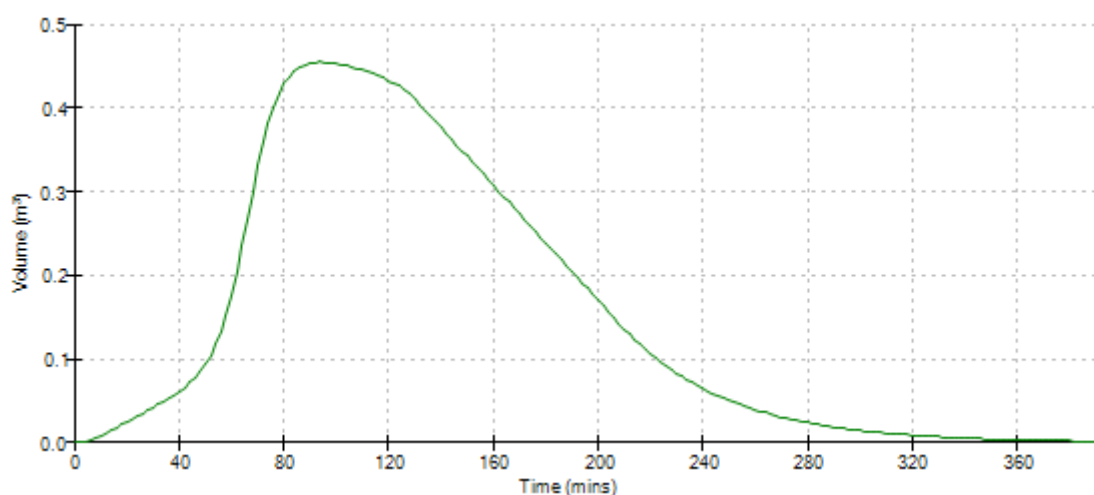
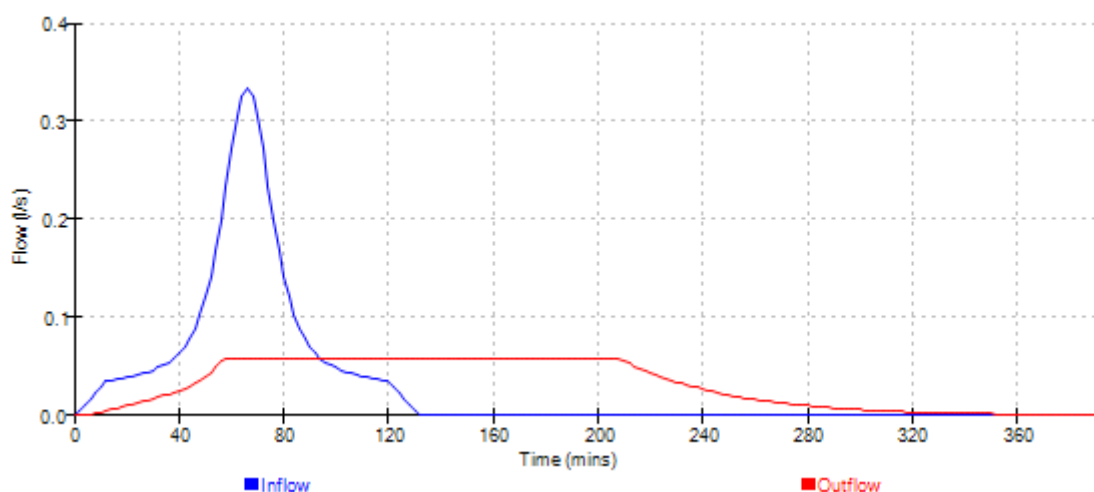
Dixon Hurst Kemp		Page 7
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 60 min Summer



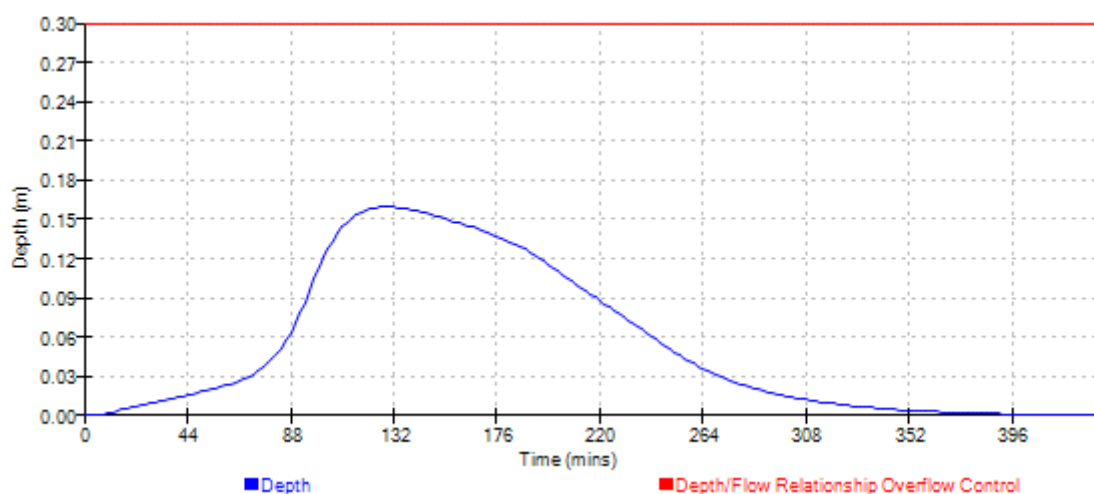
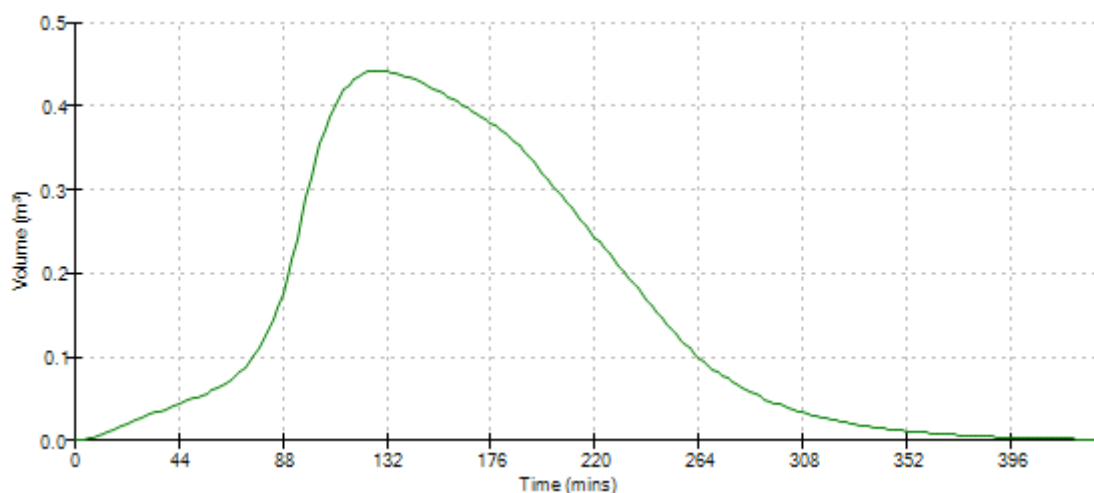
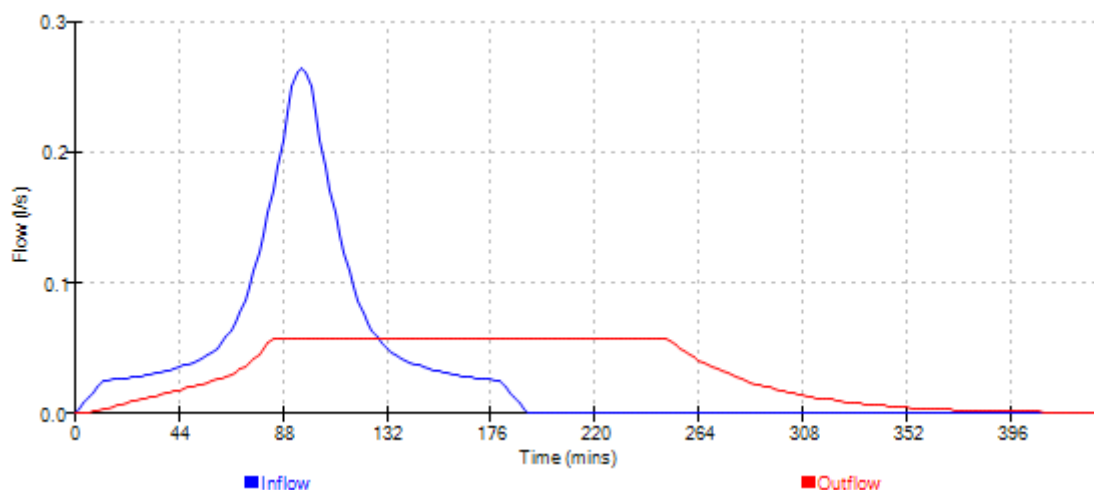
Dixon Hurst Kemp		Page 8
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 120 min Summer

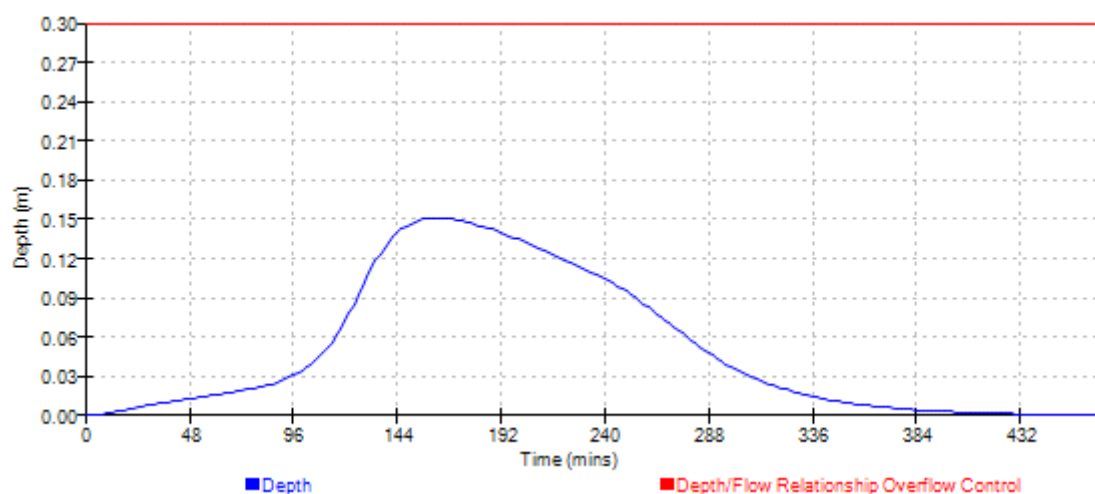
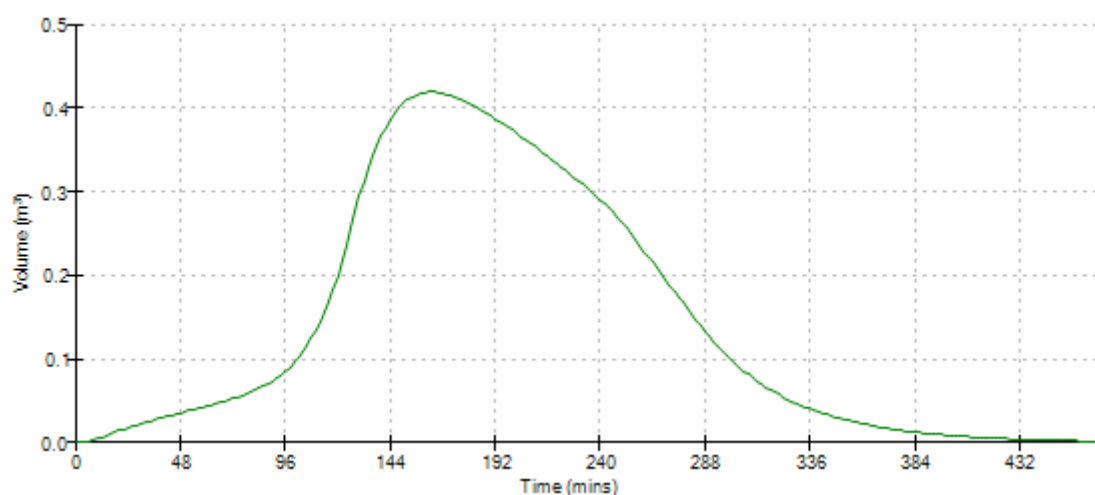
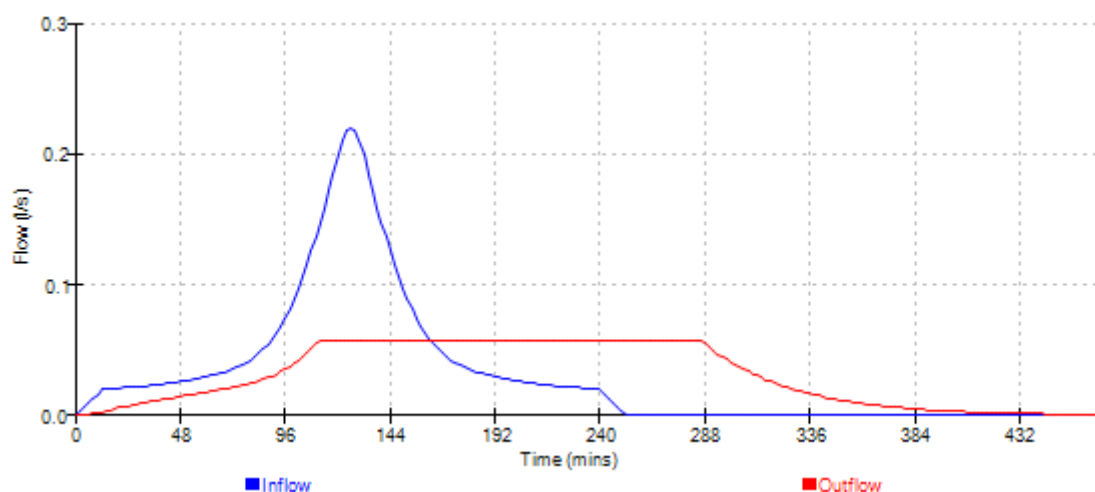


Dixon Hurst Kemp		Page 9
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 180 min Summer

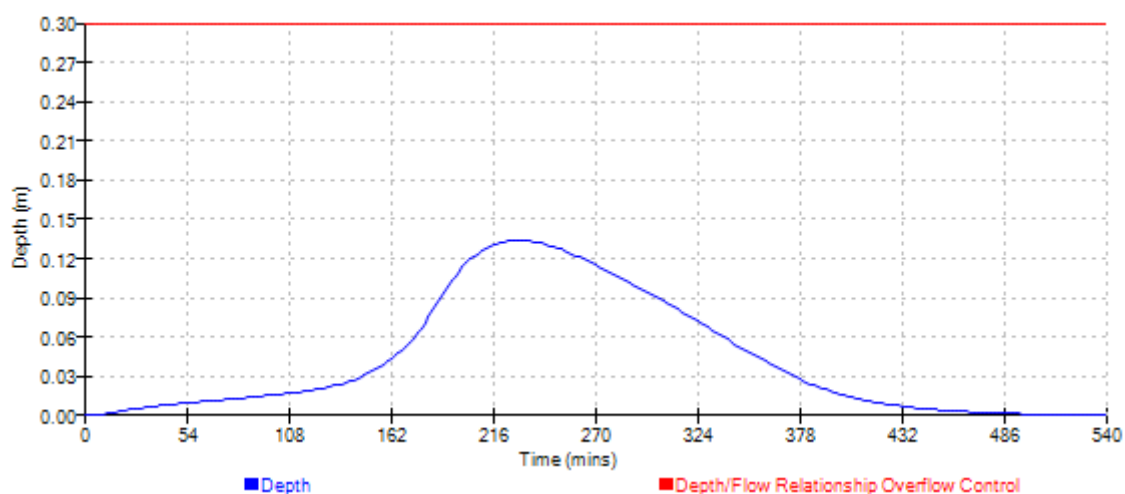
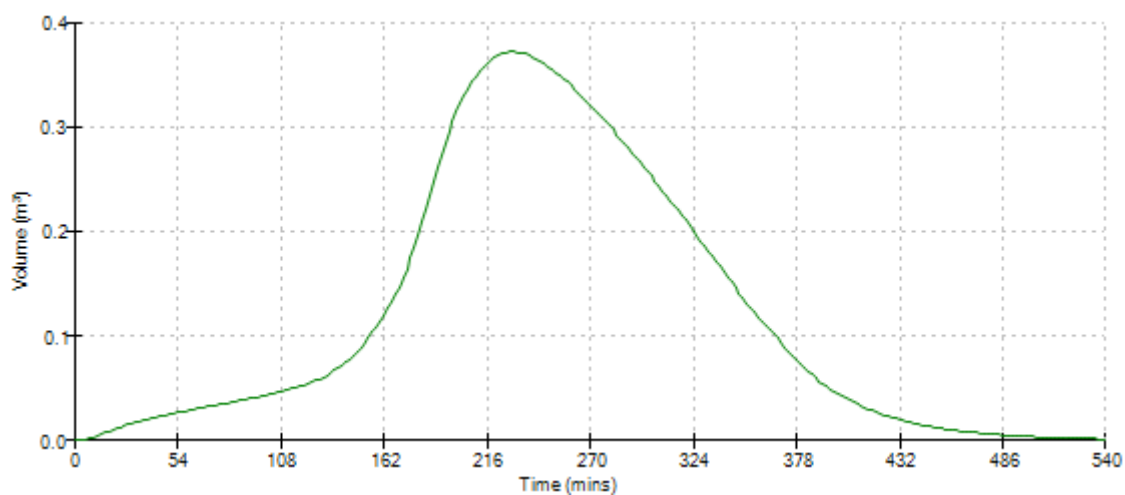
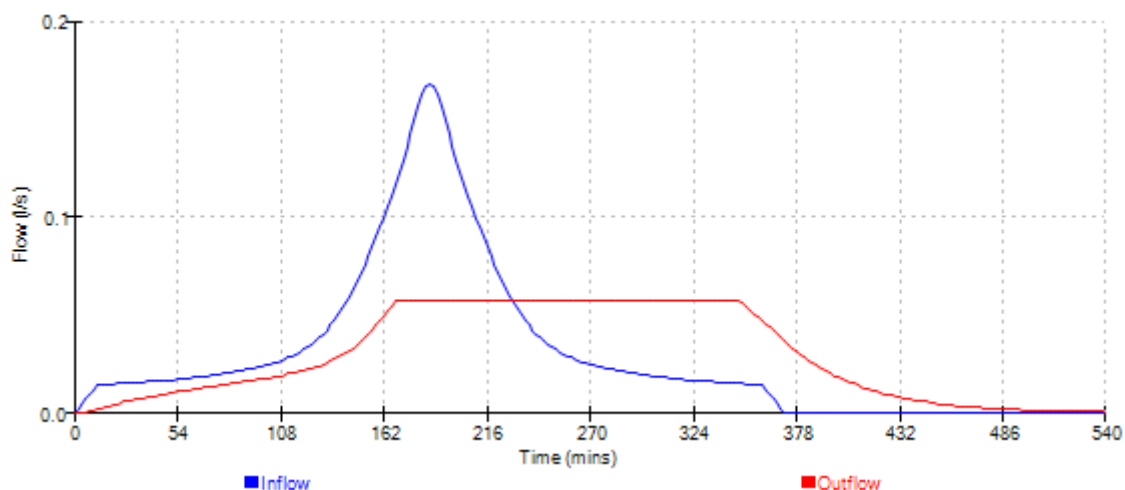


Event: 240 min Summer



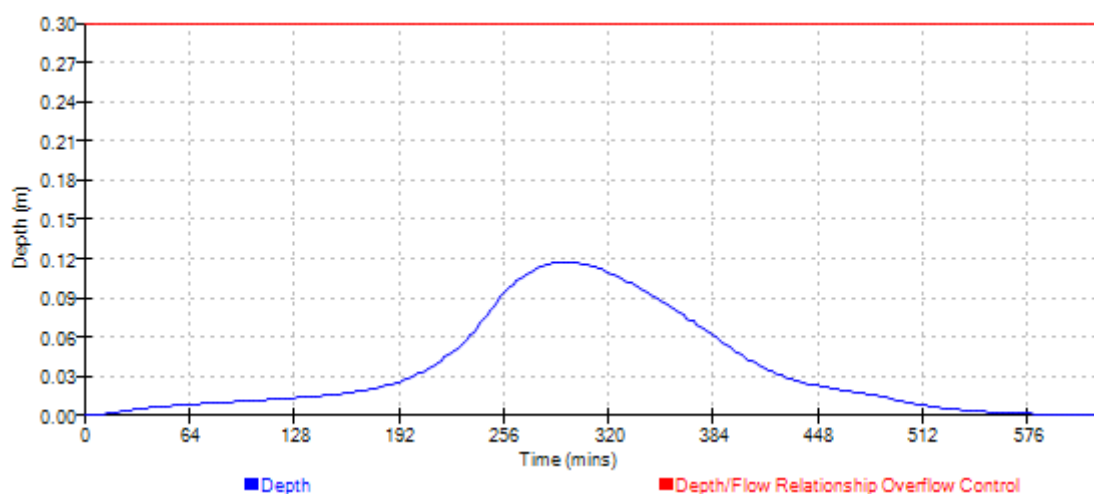
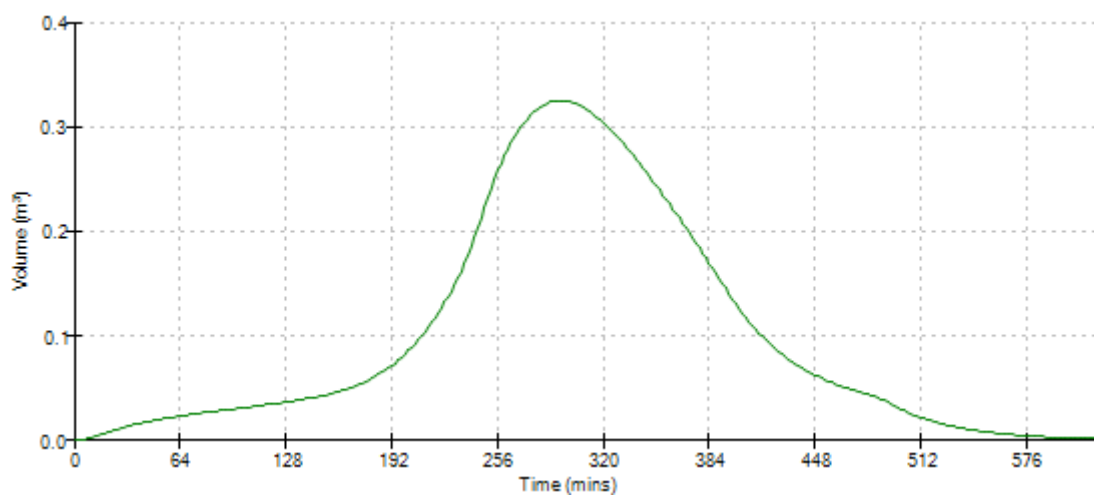
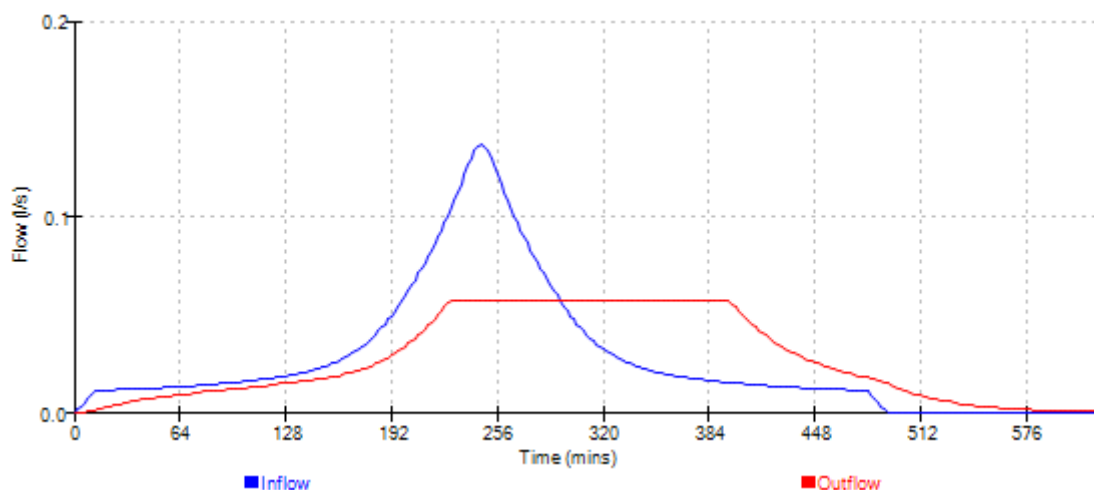
Dixon Hurst Kemp		Page 11
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 360 min Summer



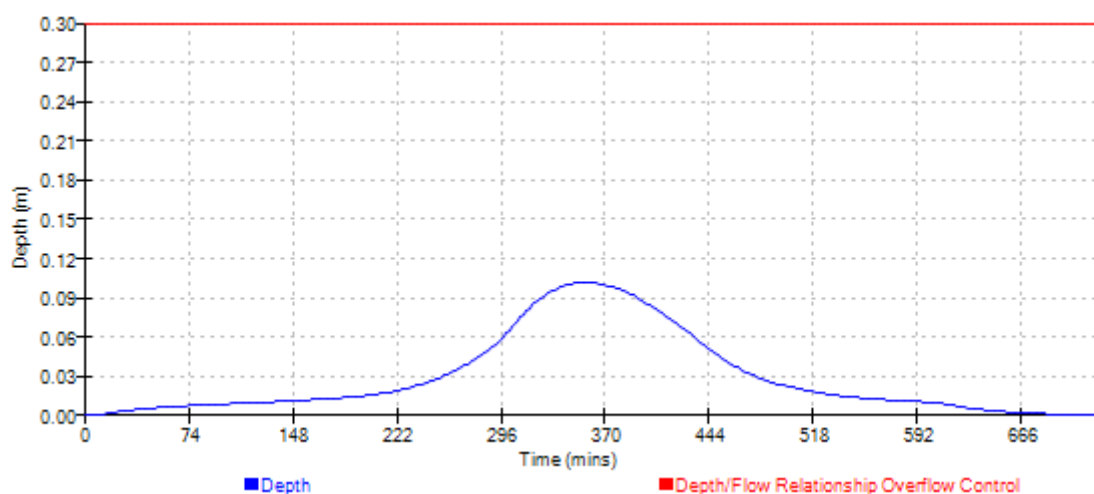
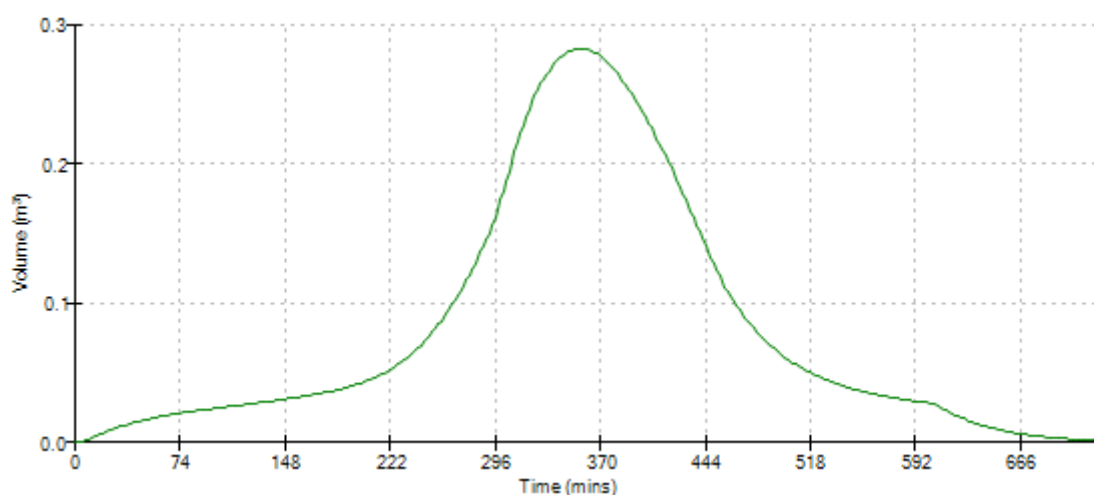
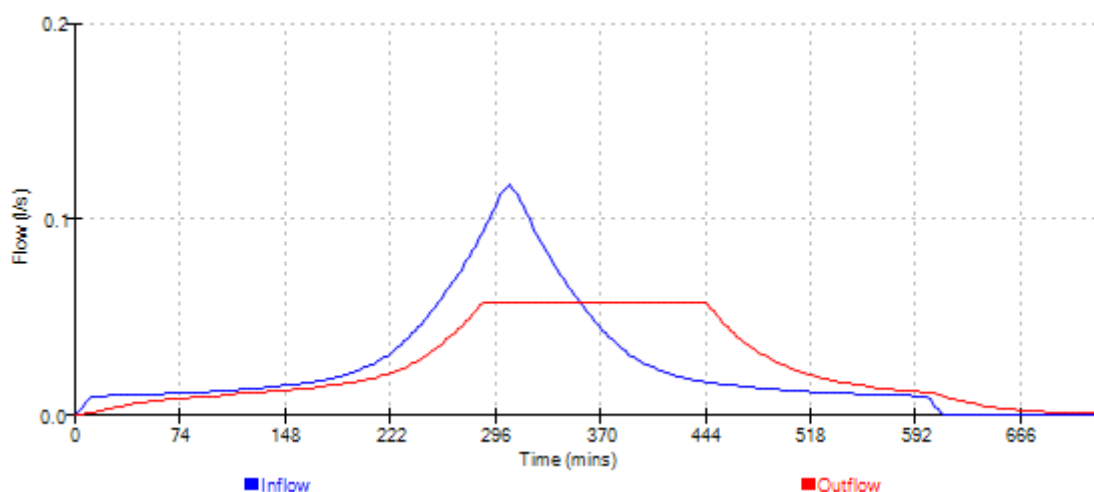
Dixon Hurst Kemp		Page 12
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 480 min Summer



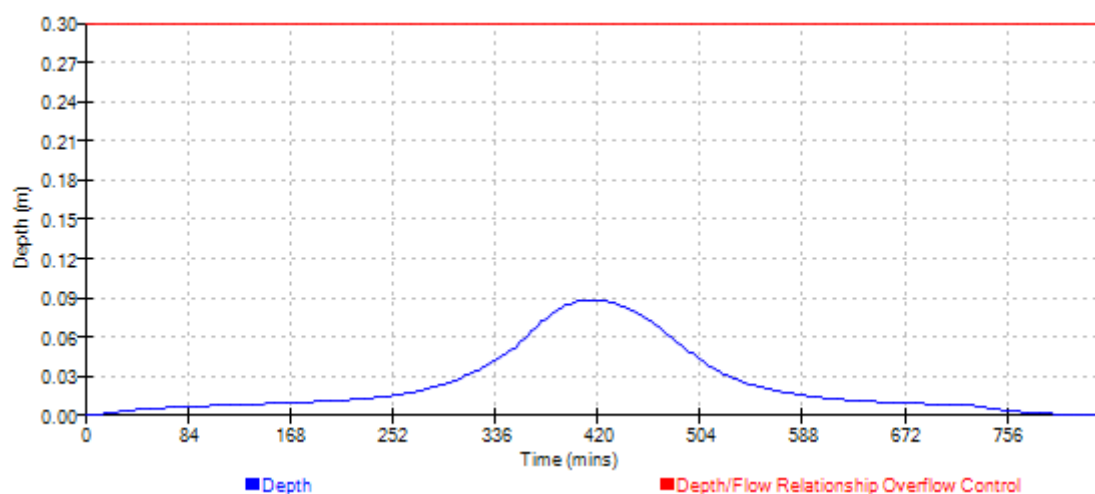
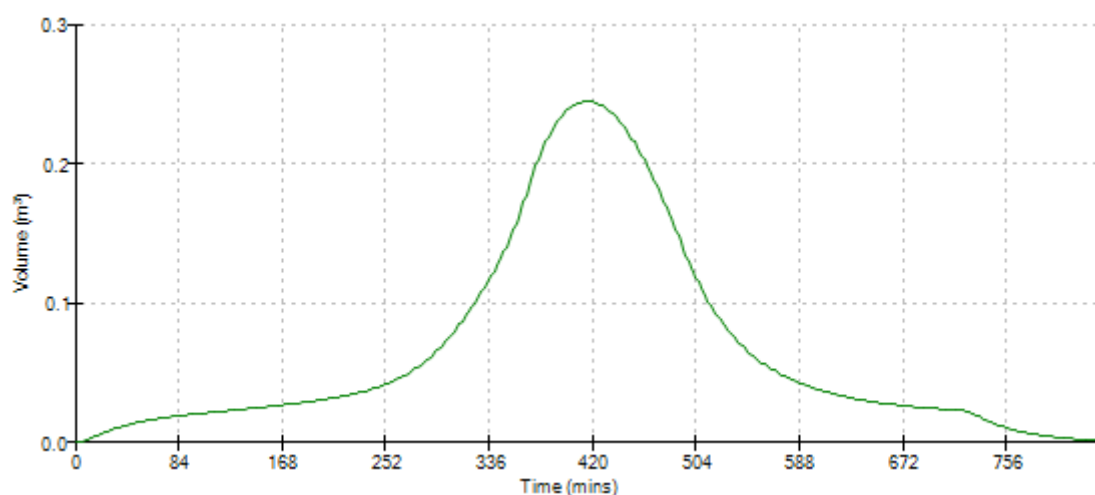
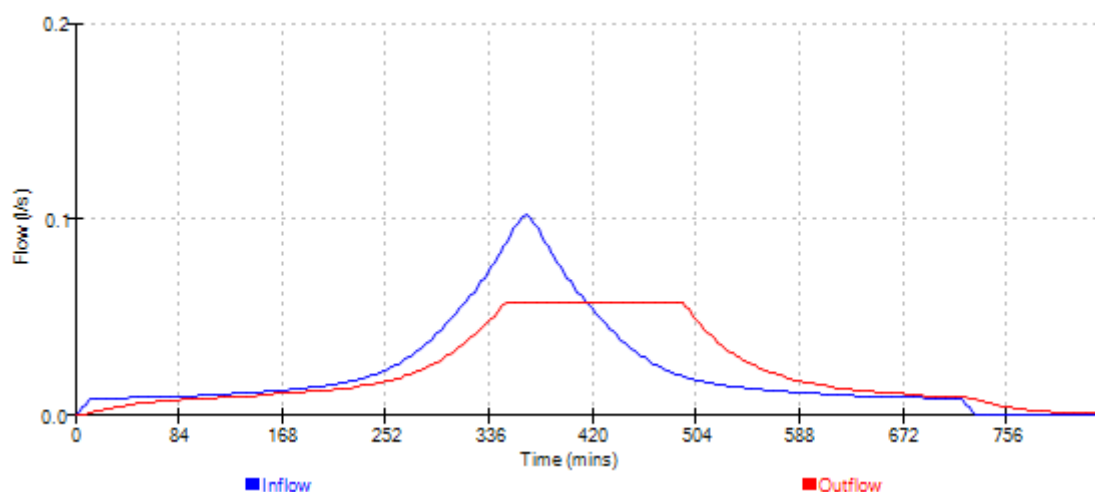
Dixon Hurst Kemp		Page 13
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 600 min Summer



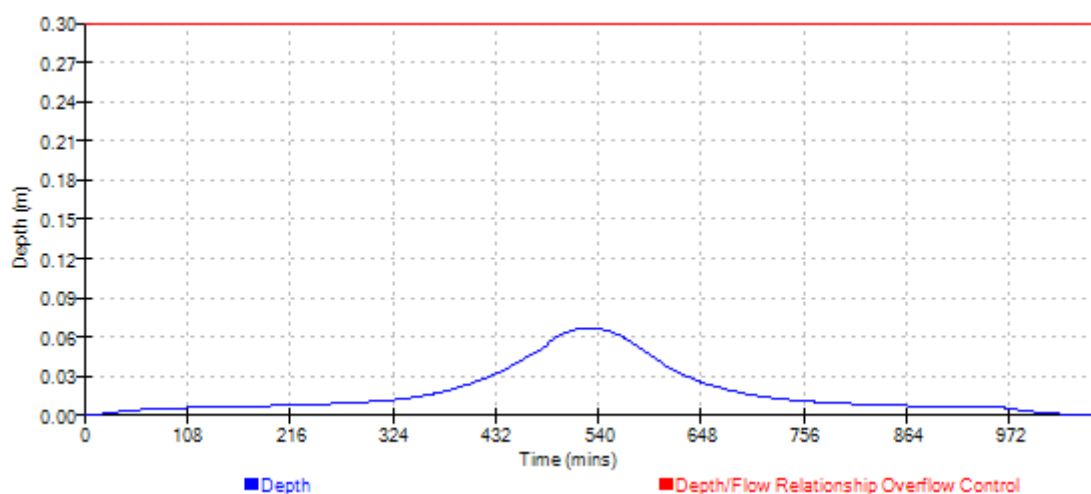
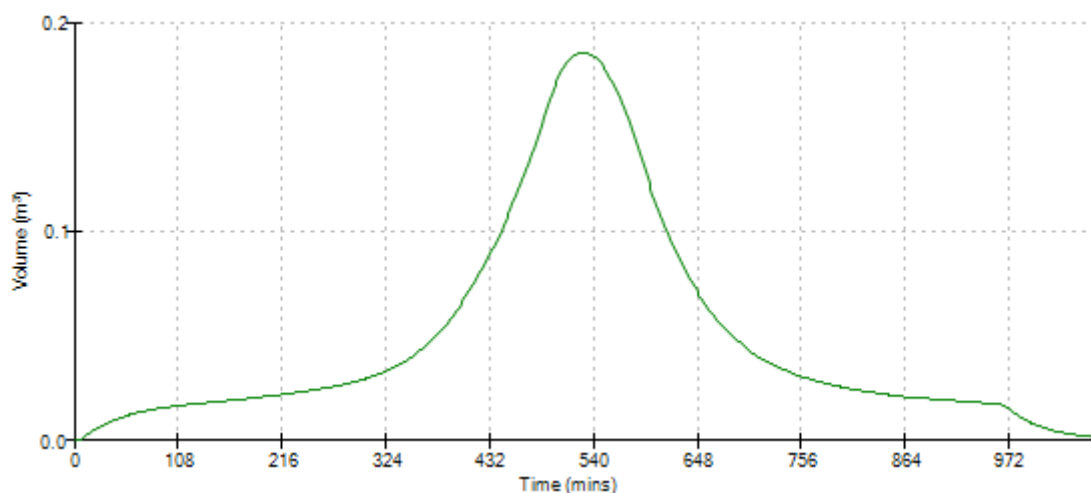
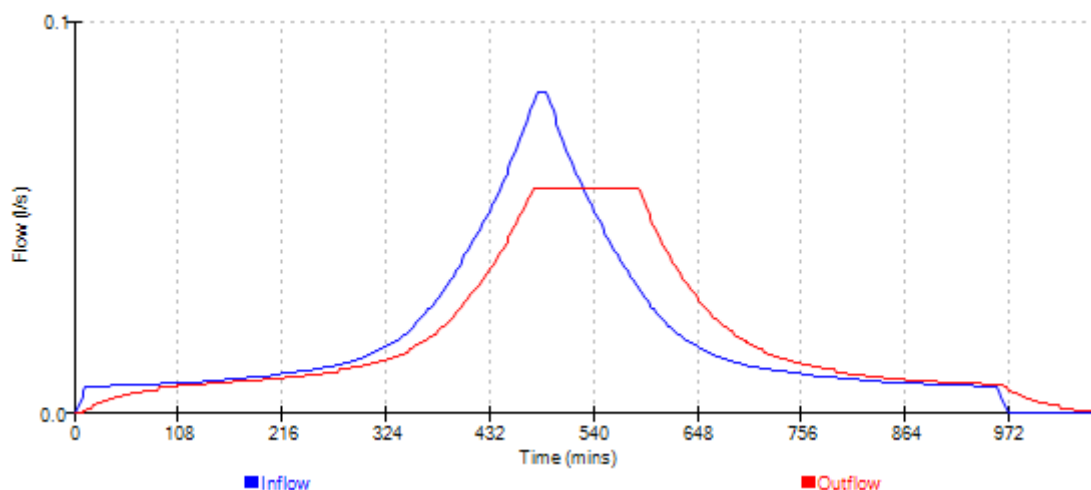
Dixon Hurst Kemp		Page 14
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 720 min Summer



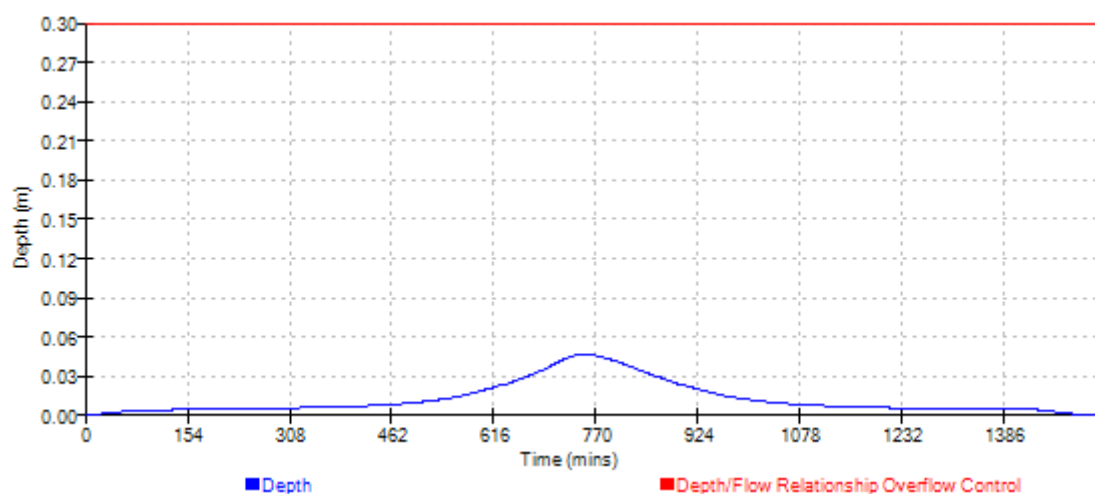
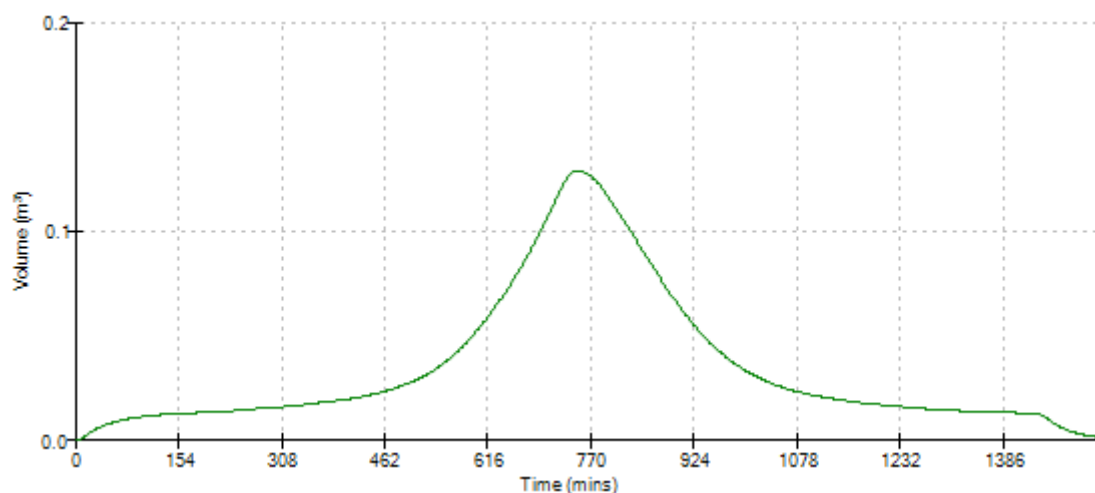
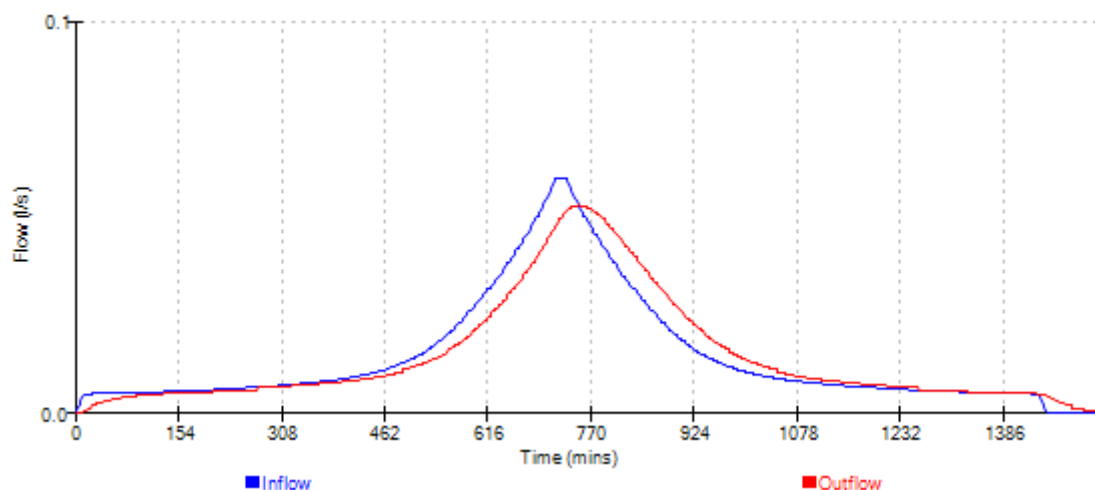
Dixon Hurst Kemp		Page 15
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 960 min Summer



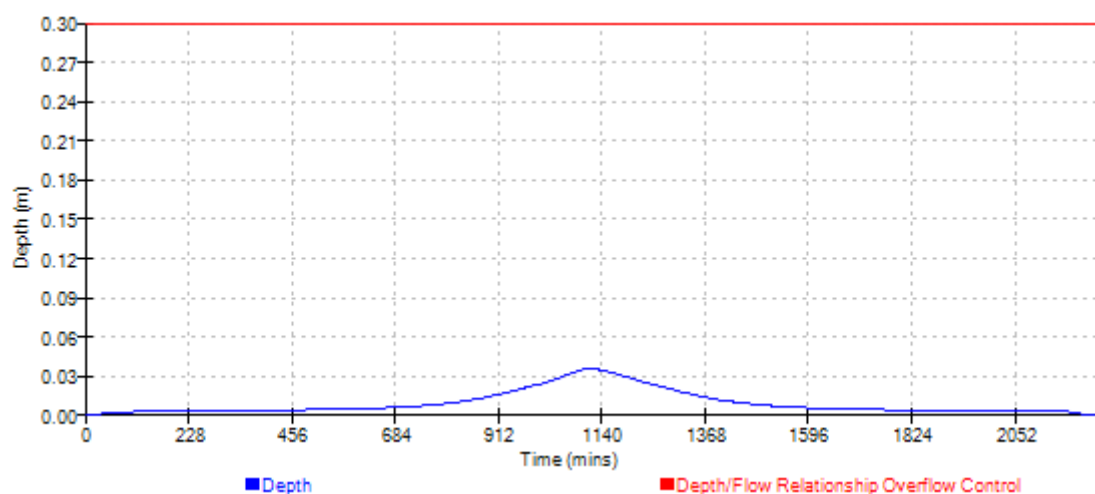
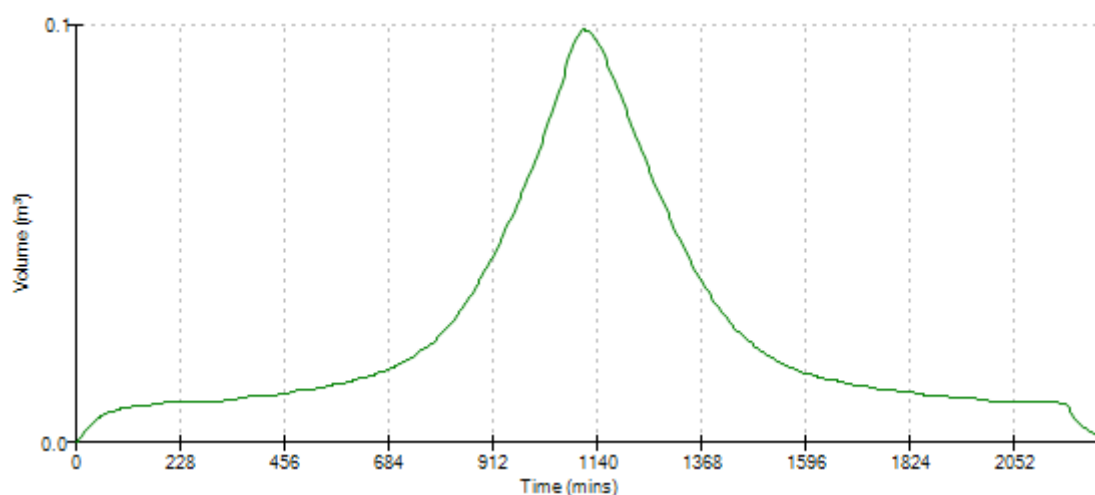
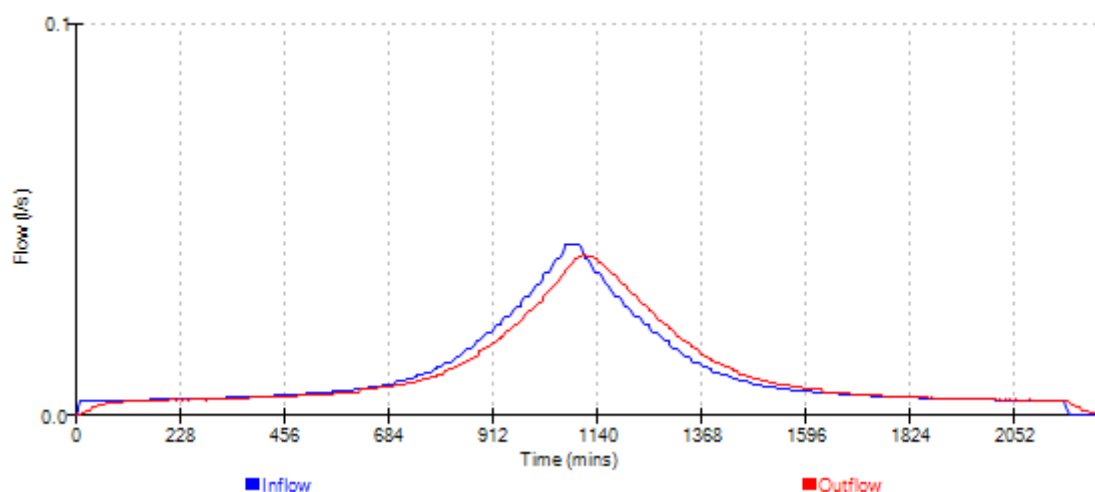
Dixon Hurst Kemp		Page 16
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 1440 min Summer

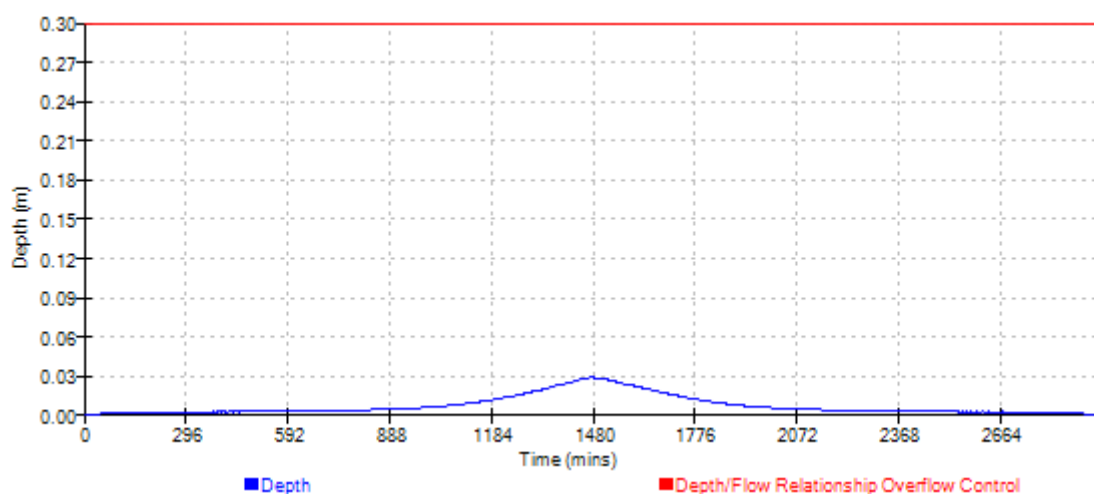
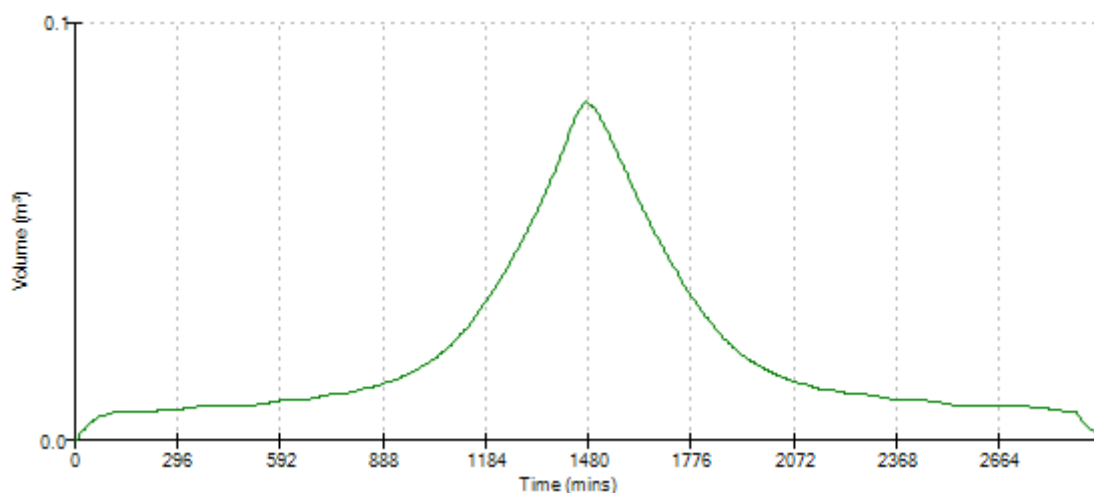
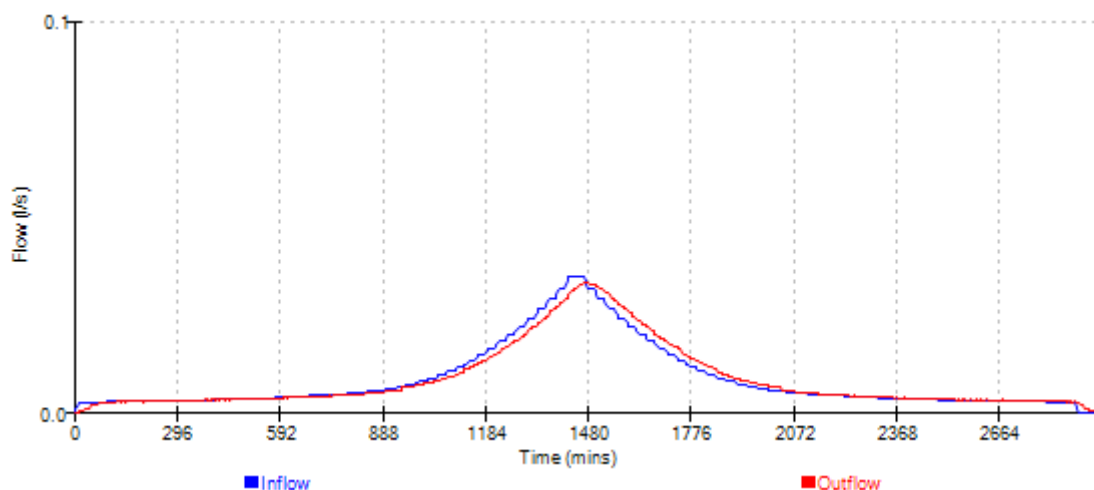


Dixon Hurst Kemp		Page 17
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 2160 min Summer

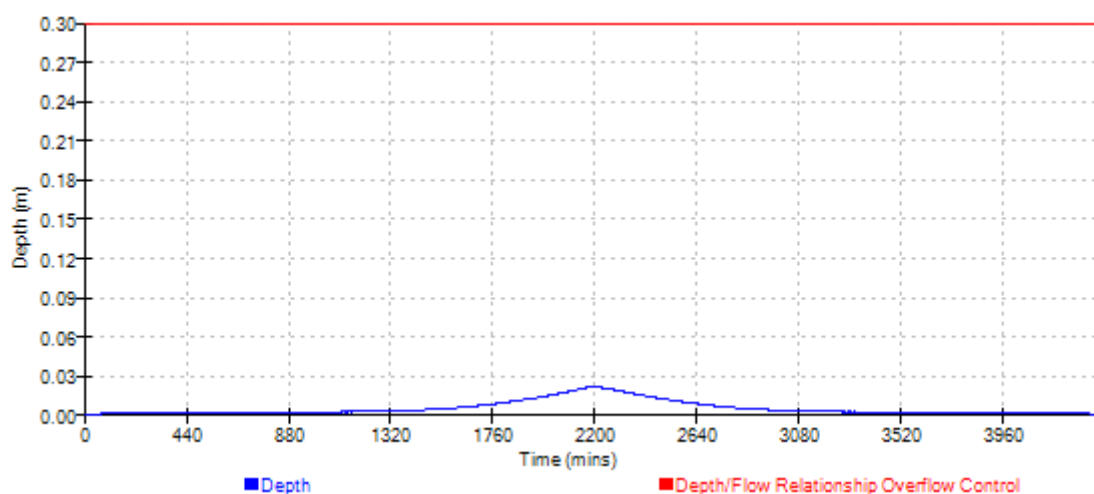
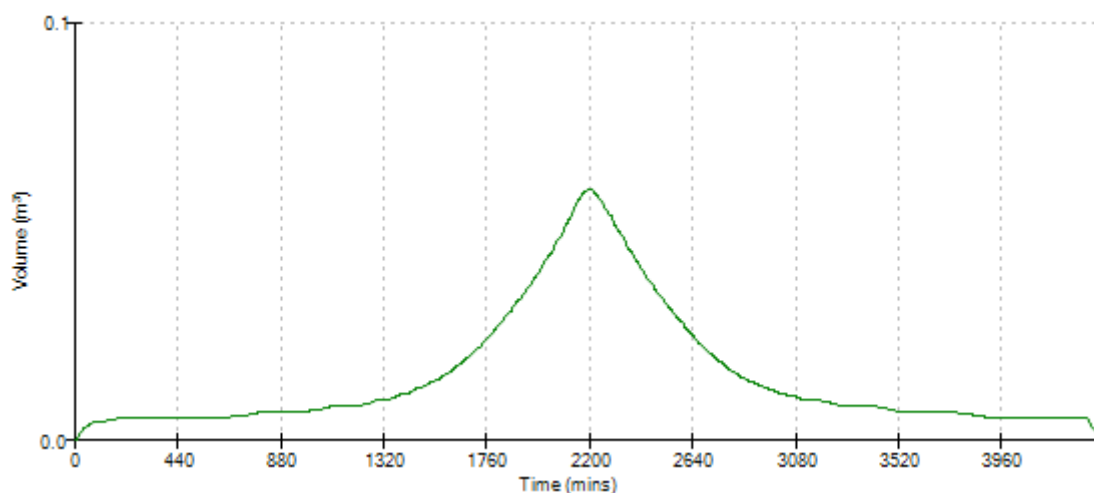
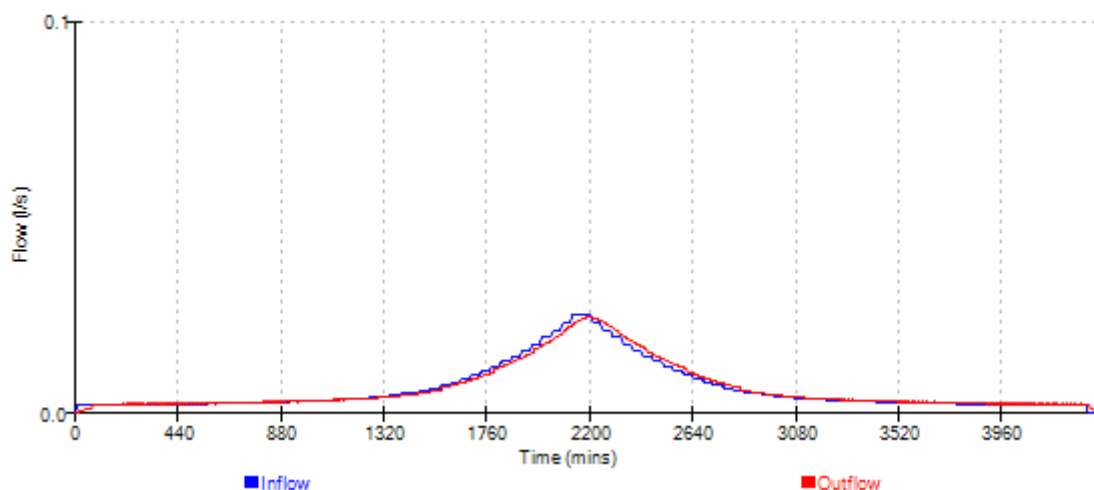


Event: 2880 min Summer



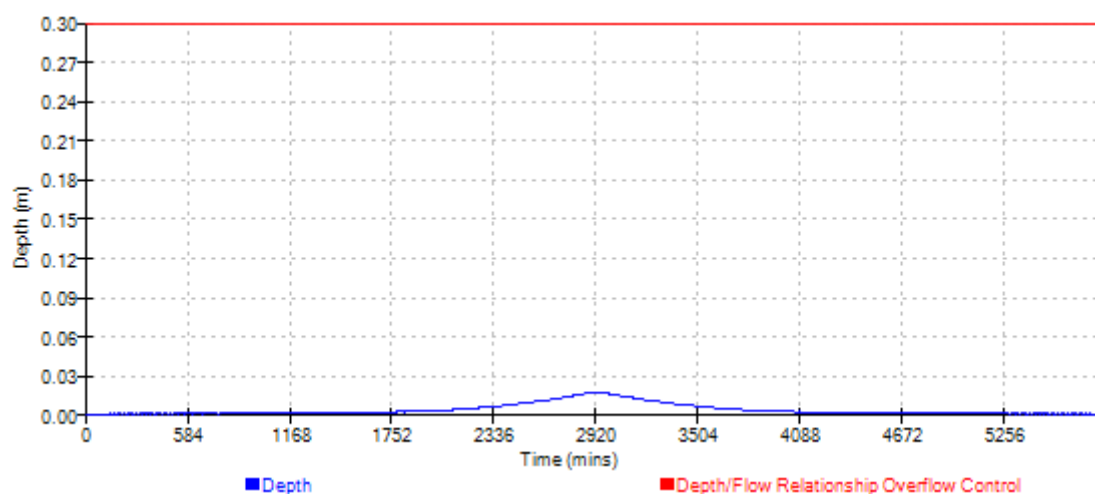
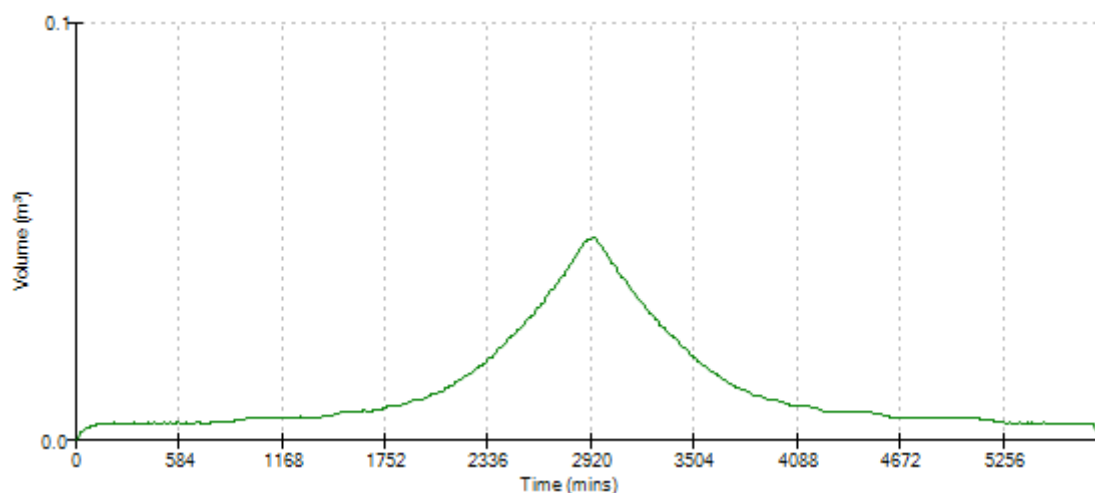
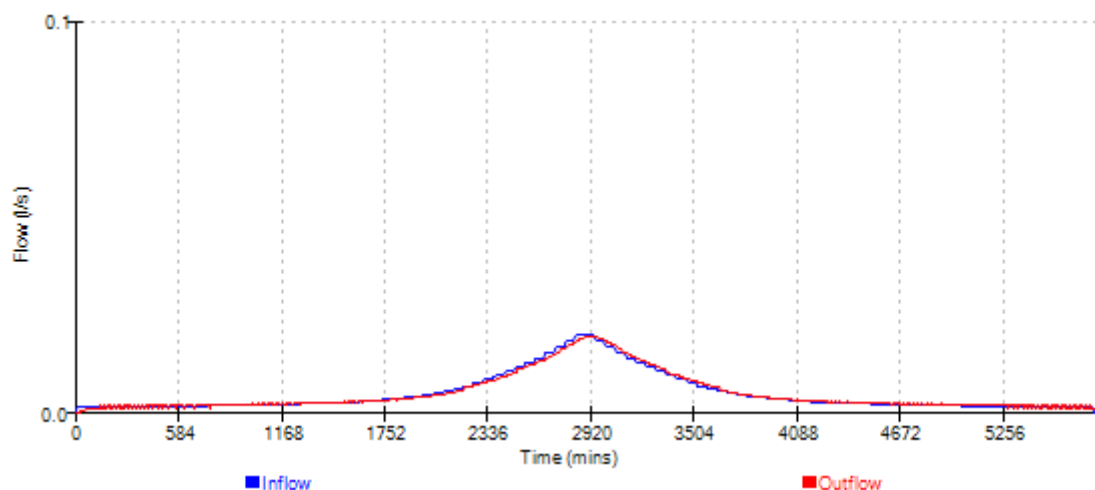
Dixon Hurst Kemp		Page 19
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 4320 min Summer



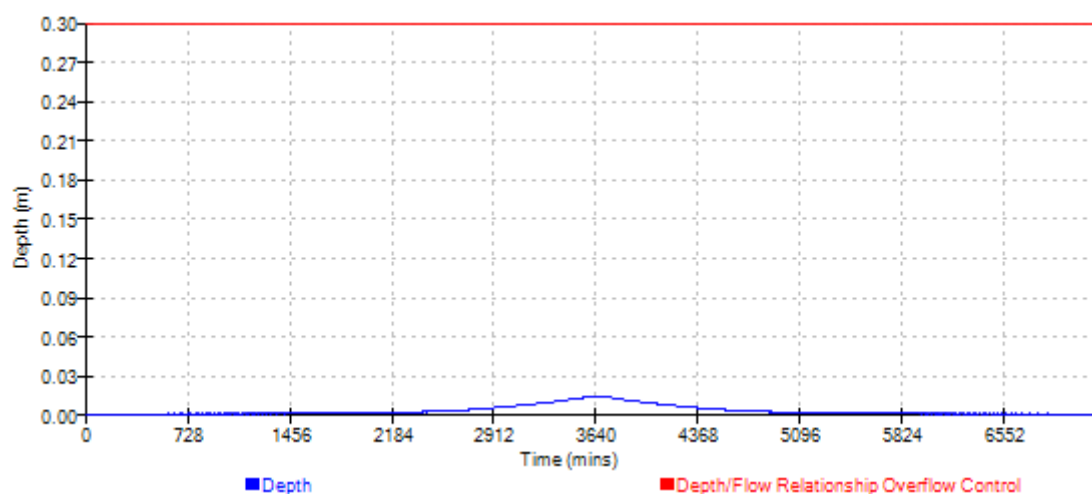
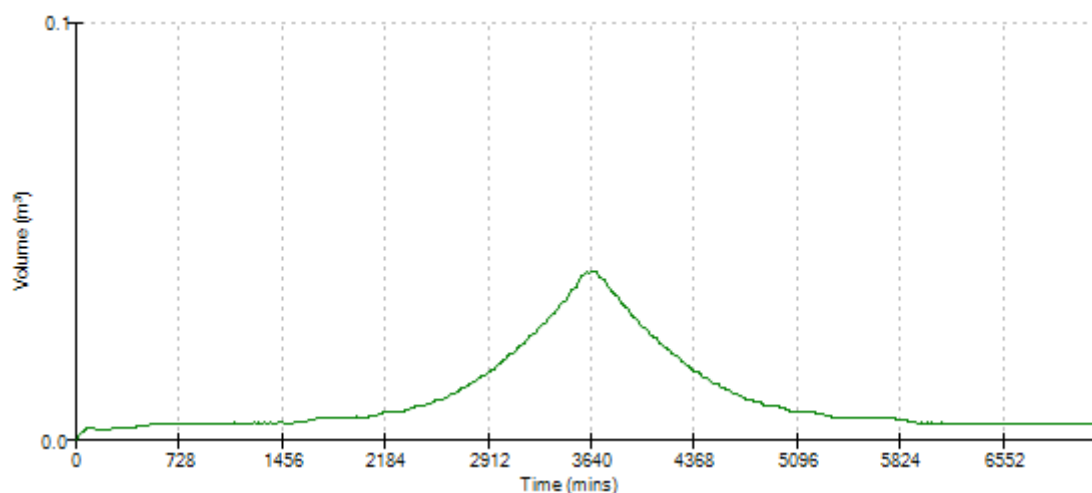
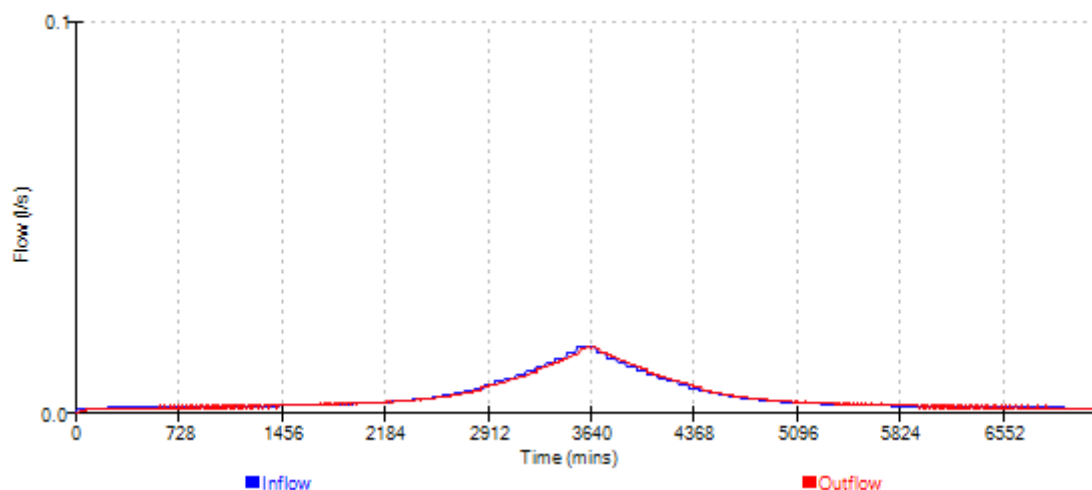
Dixon Hurst Kemp		Page 20
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 5760 min Summer



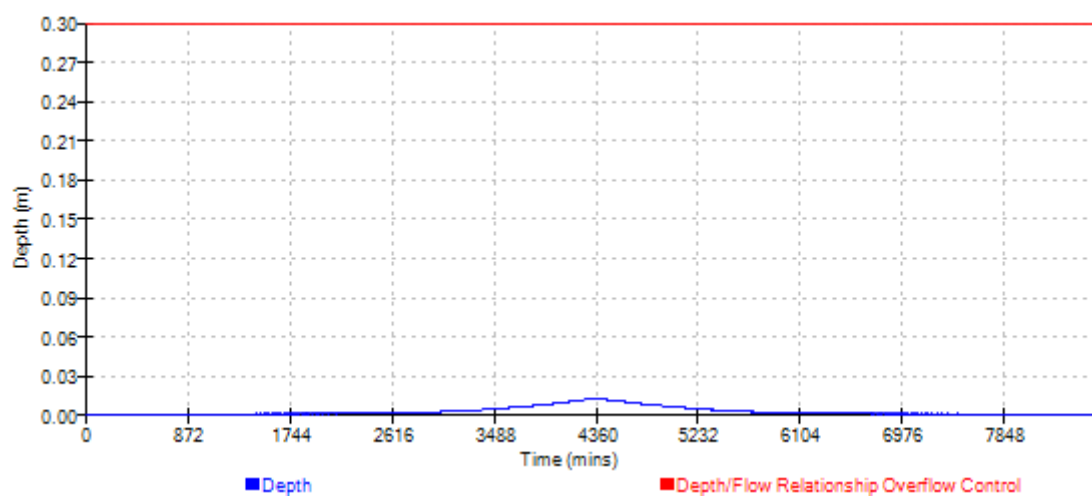
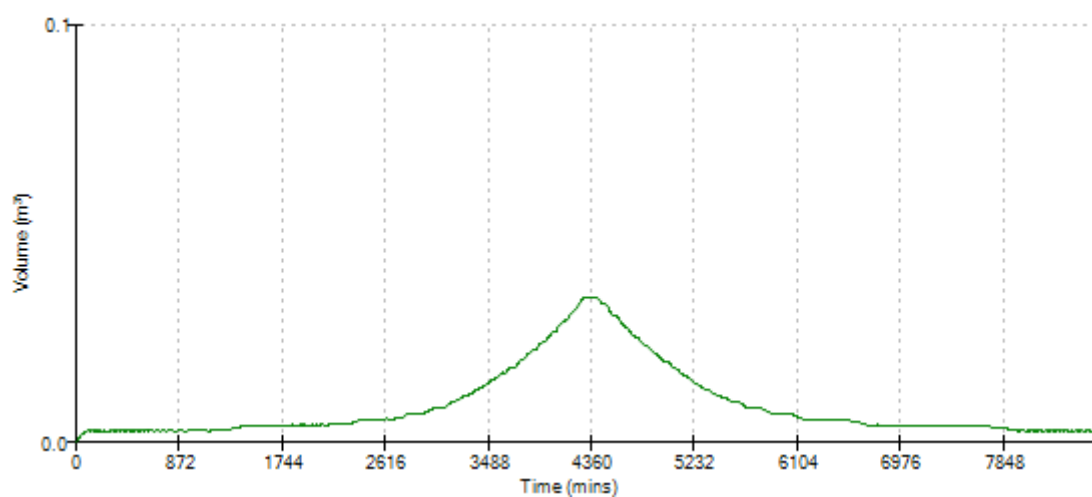
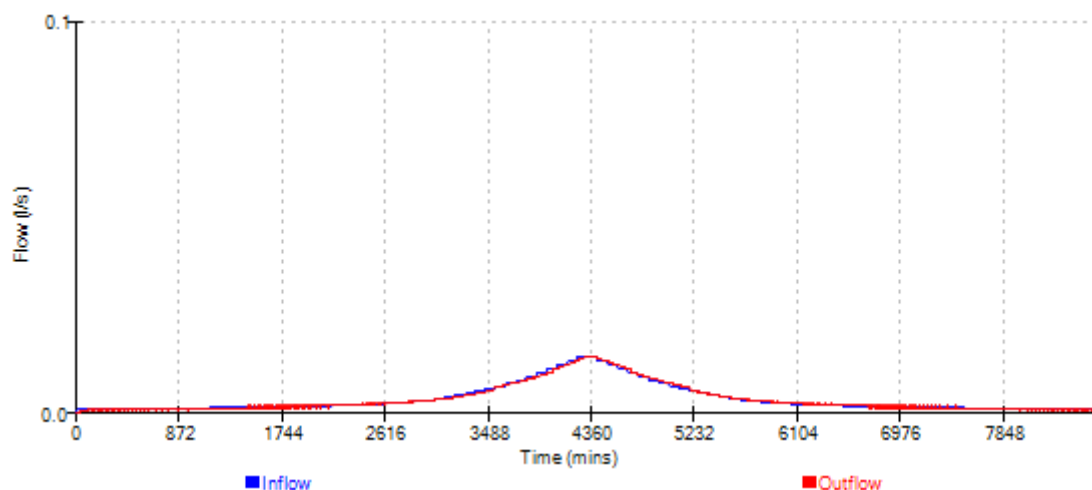
Dixon Hurst Kemp		Page 21
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 7200 min Summer



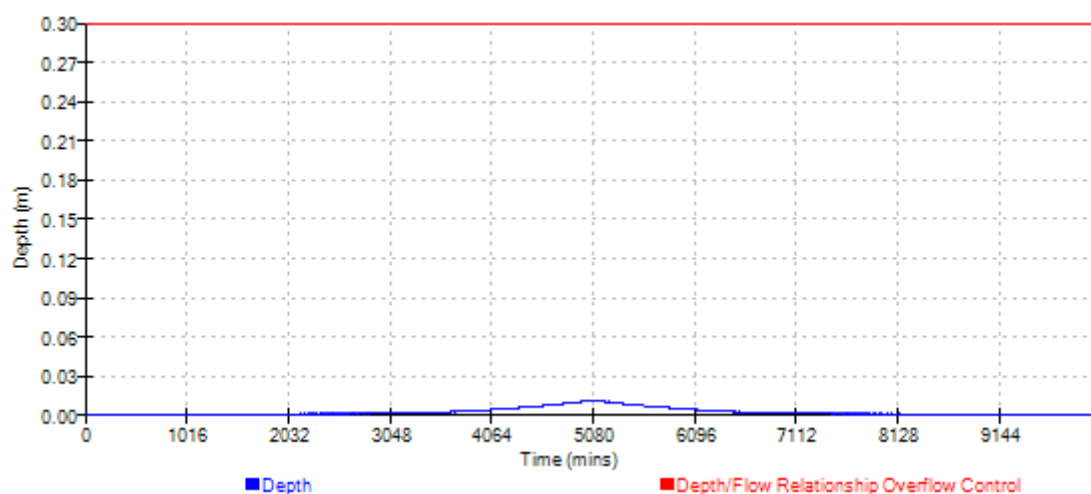
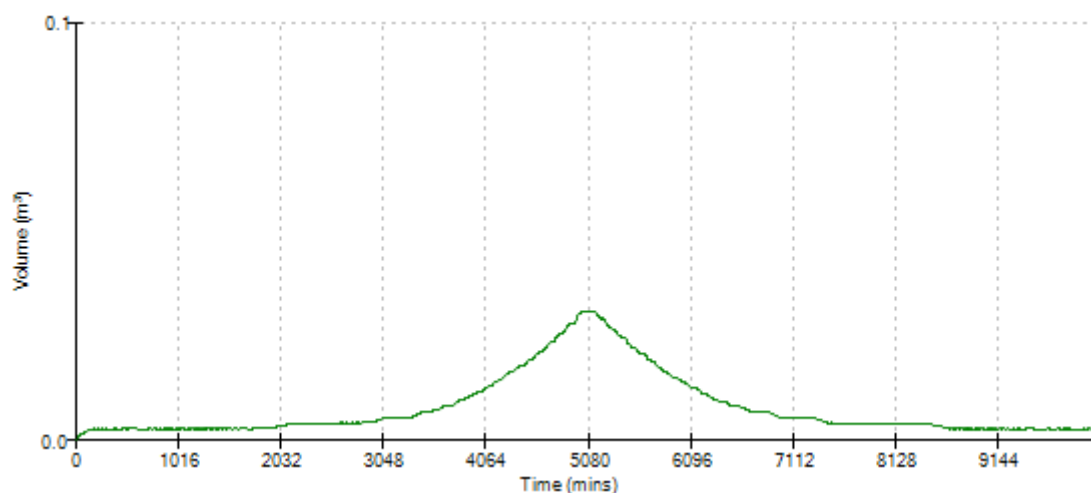
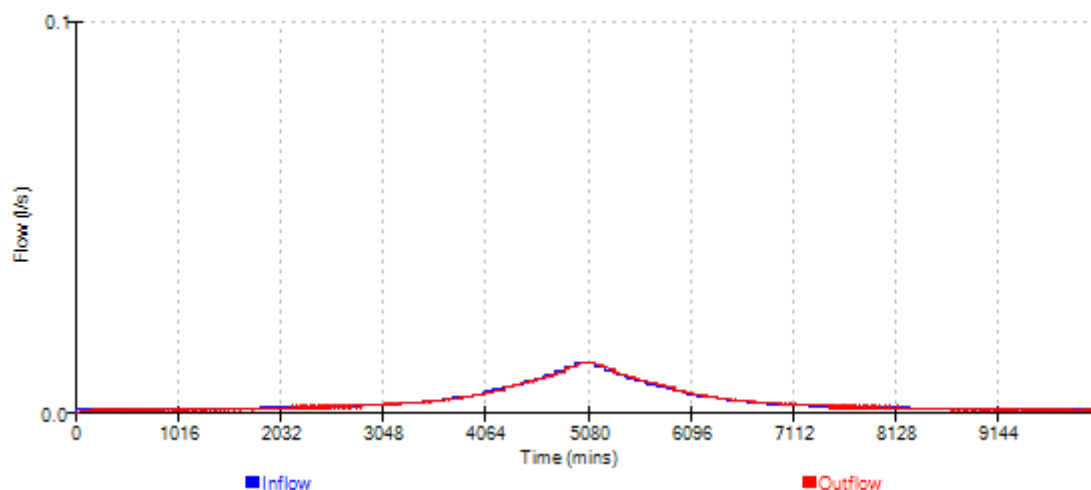
Dixon Hurst Kemp		Page 22
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 8640 min Summer



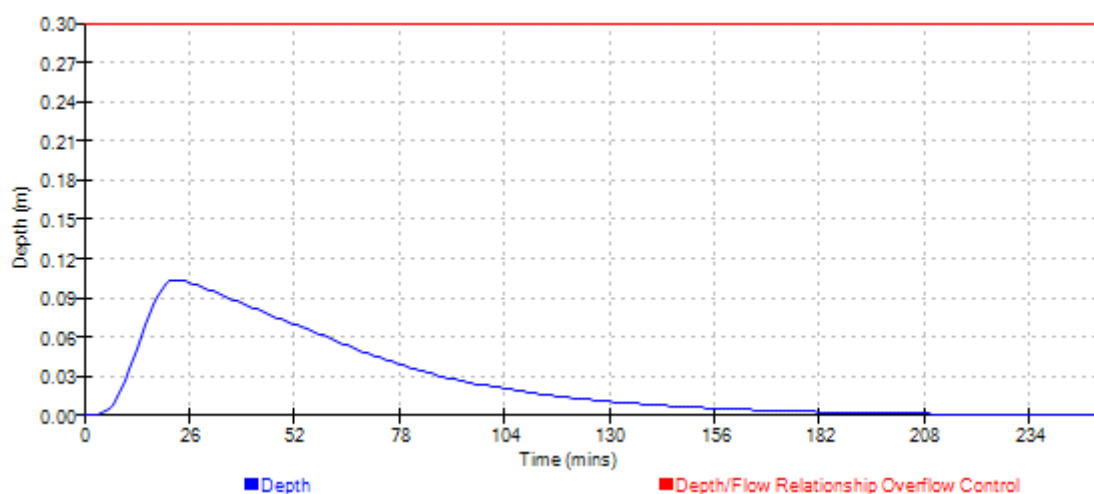
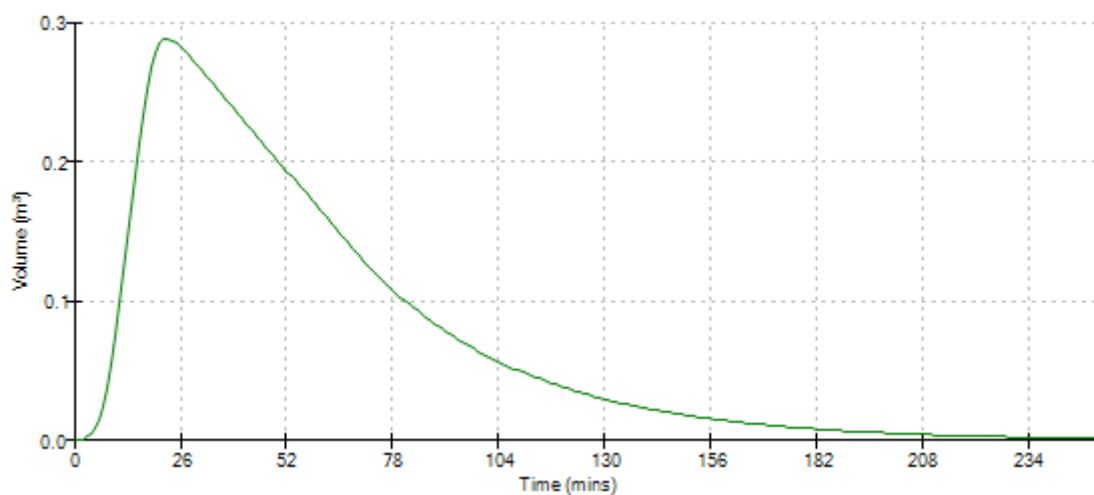
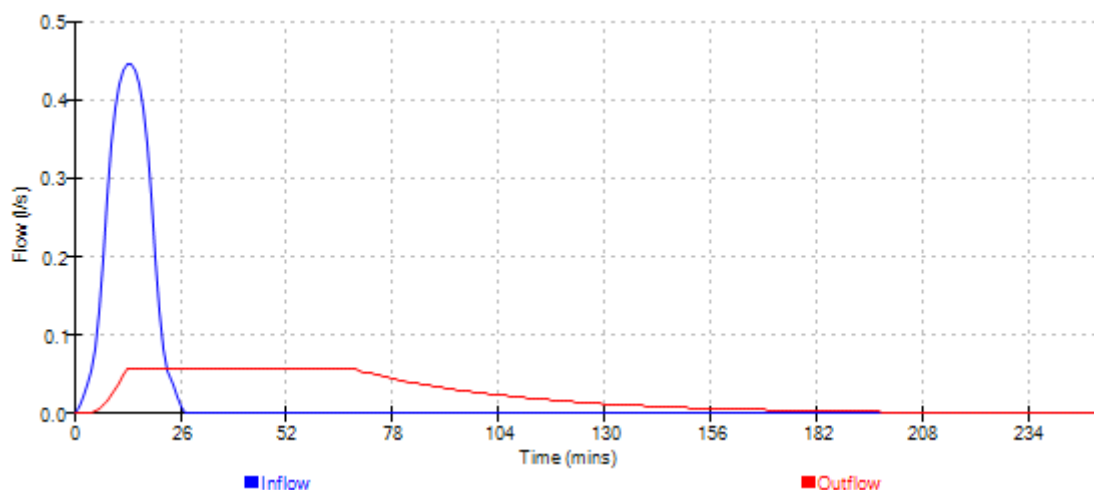
Dixon Hurst Kemp		Page 23
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 10080 min Summer

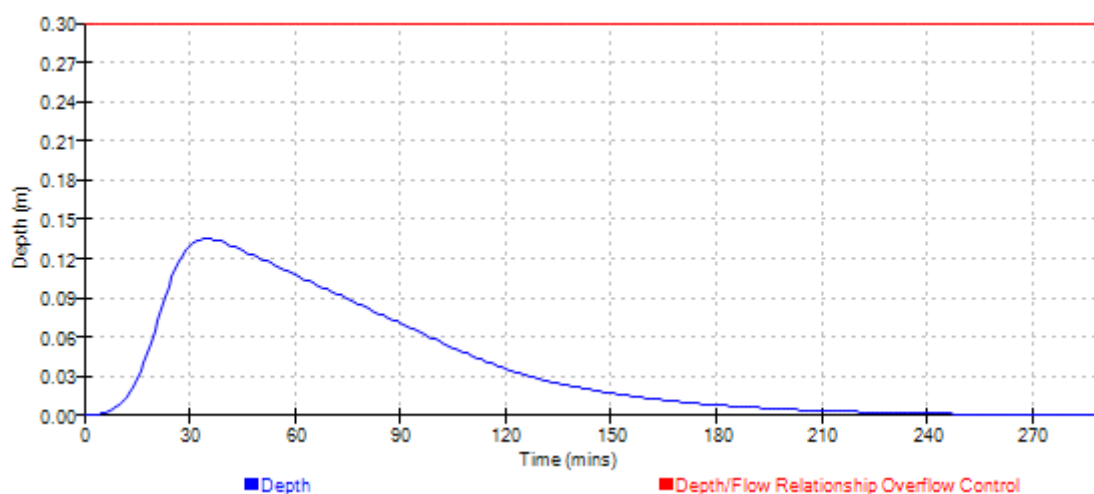
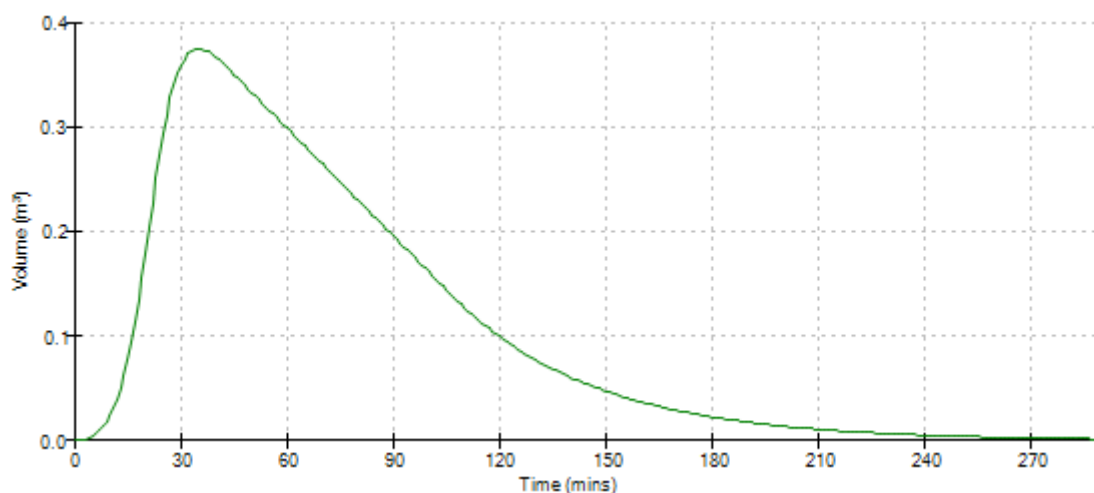
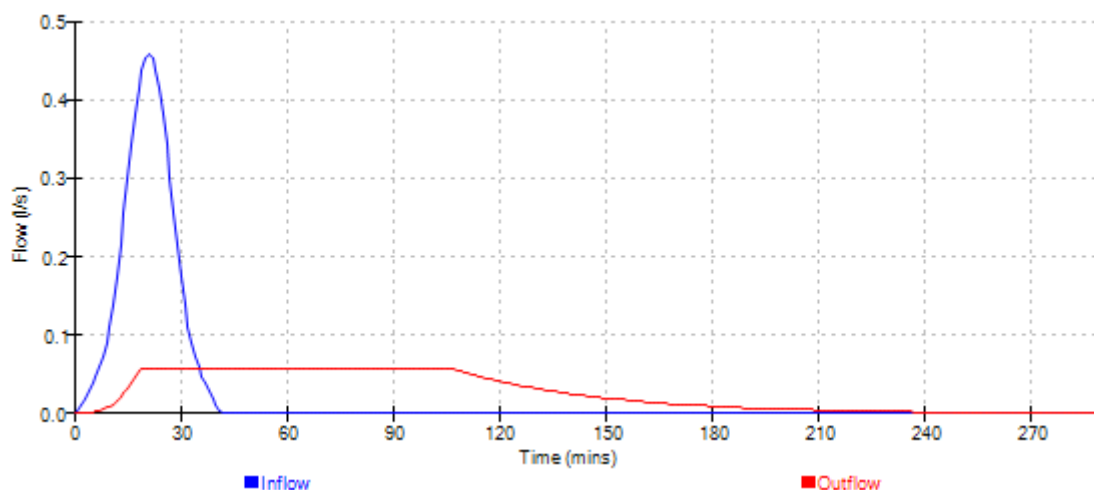


Dixon Hurst Kemp		Page 24
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 15 min winter

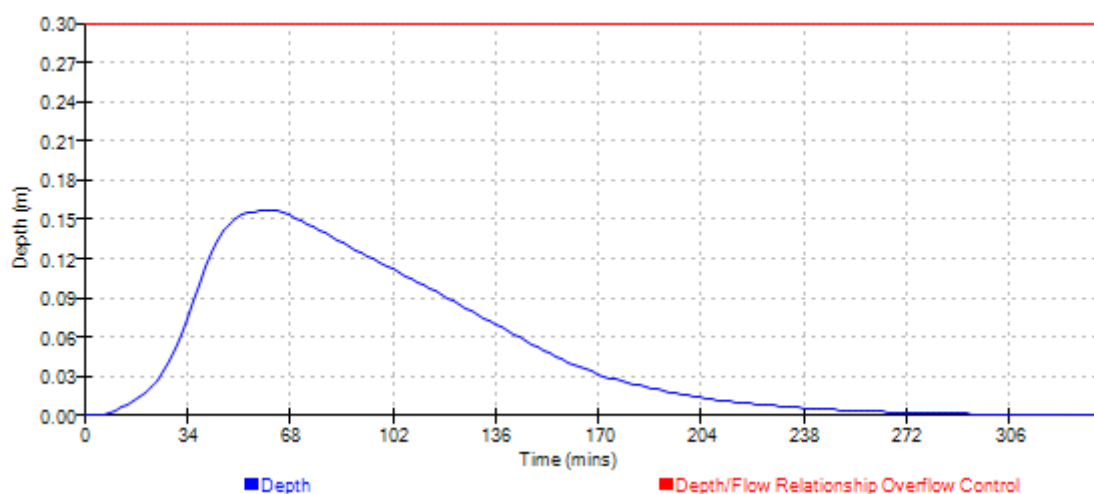
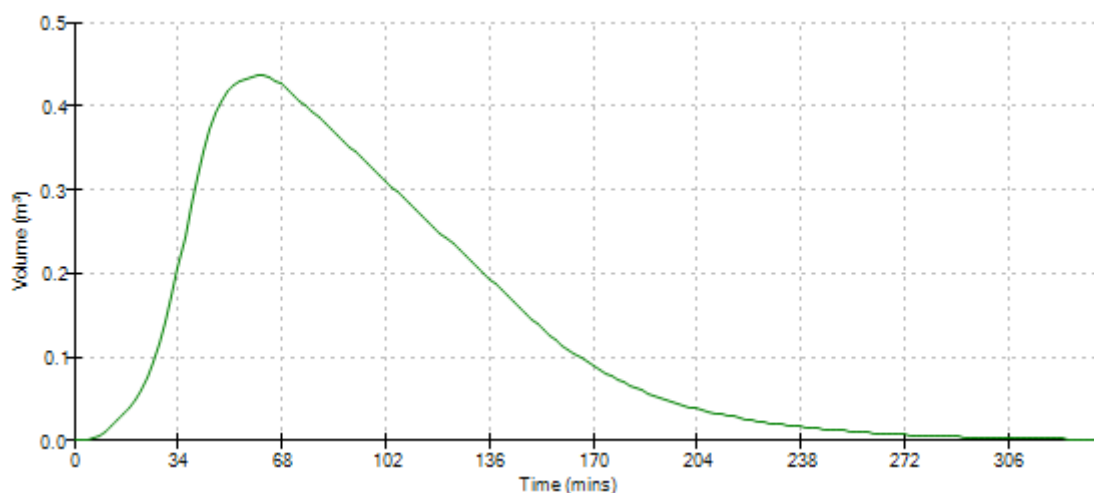
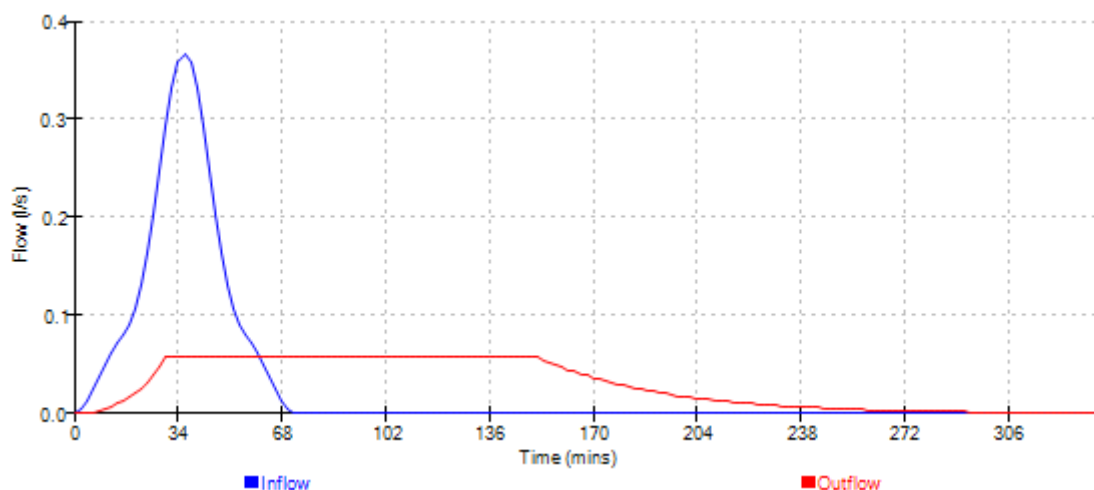


Event: 30 min winter



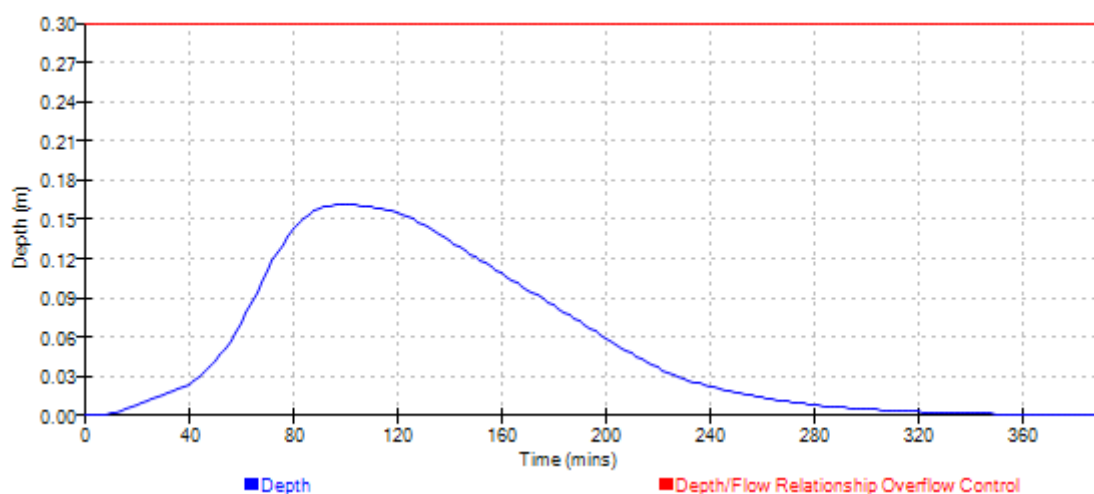
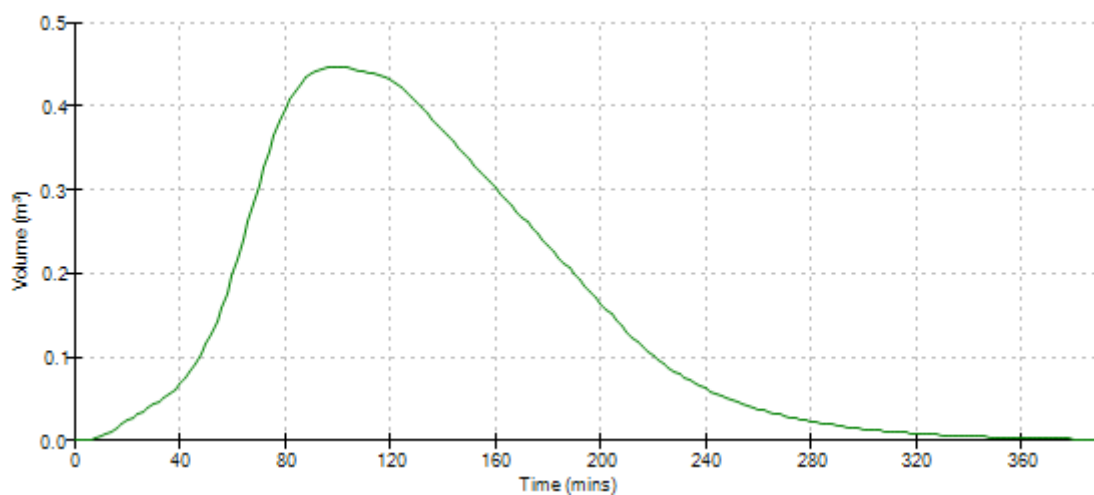
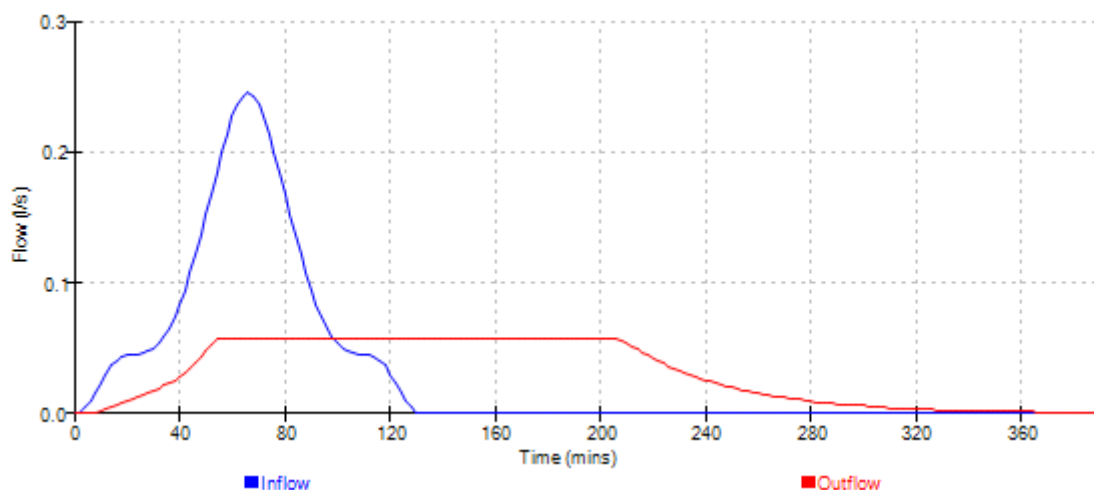
Dixon Hurst Kemp		Page 26
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 60 min winter

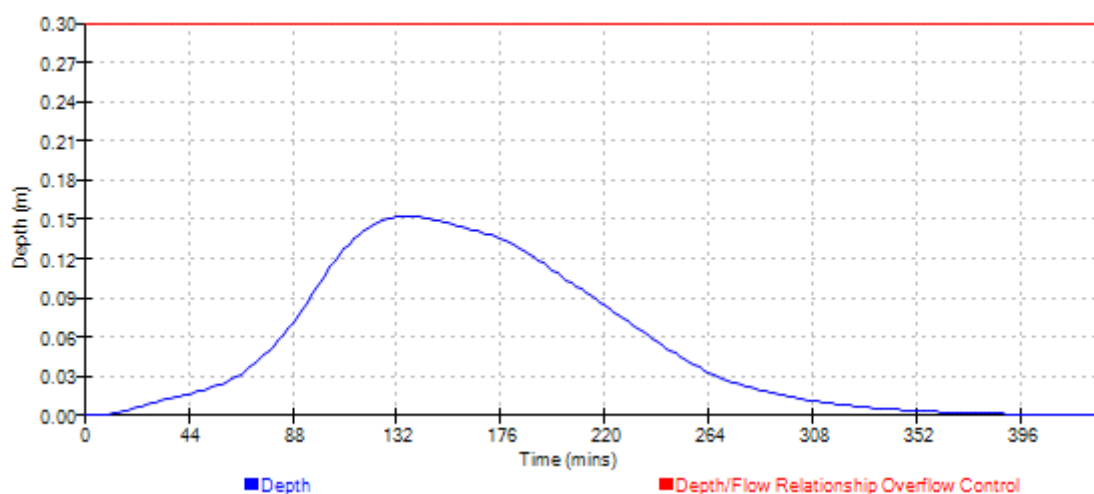
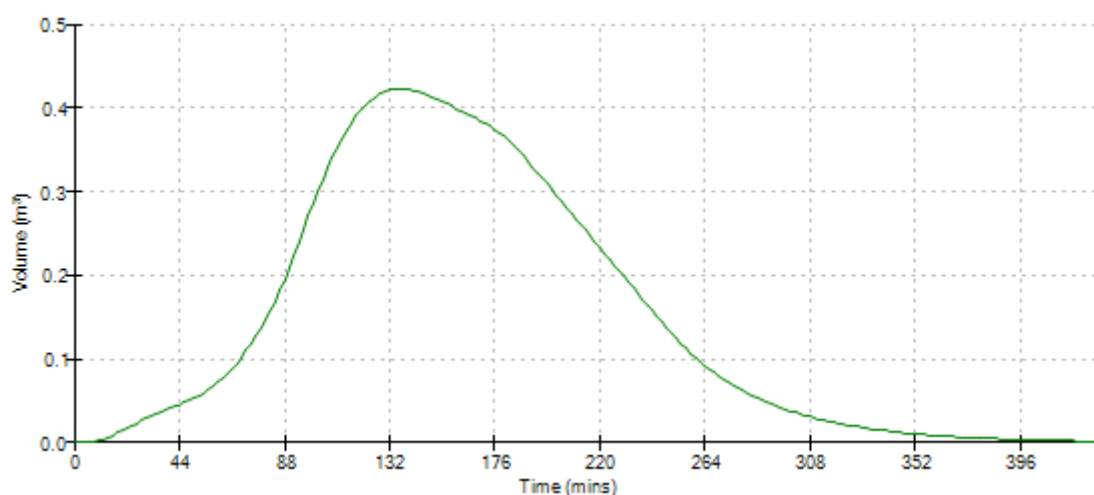
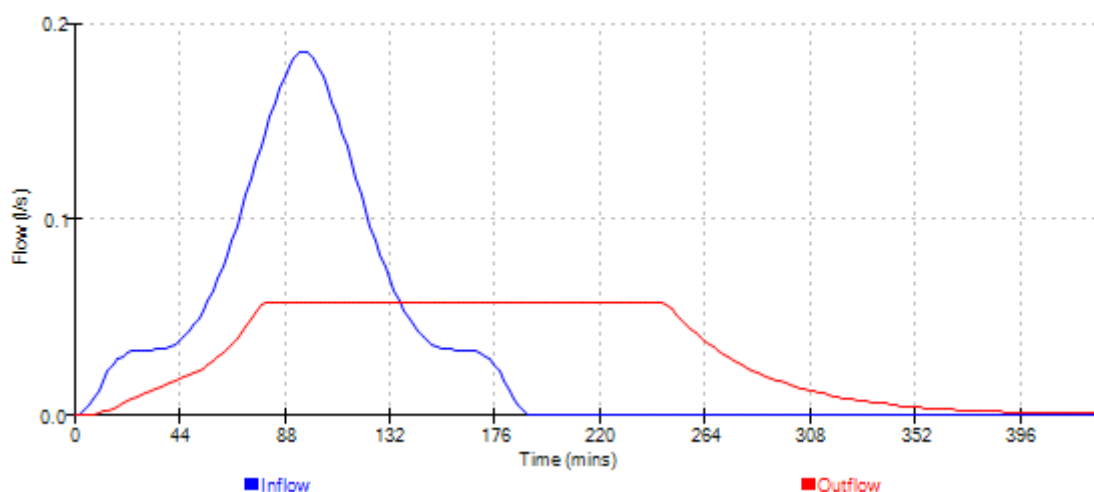


Dixon Hurst Kemp Victoria Court 22 St Pancras West Sussex PO19 7GD Date Nov 25 File Rain Garden storage ... Elstree Computing Ltd	Hurst Road, Hassocks Surface Water Drainage Rain Garden Design Rev04 Designed by JS Checked by Source Control w.12.6	Page 27 
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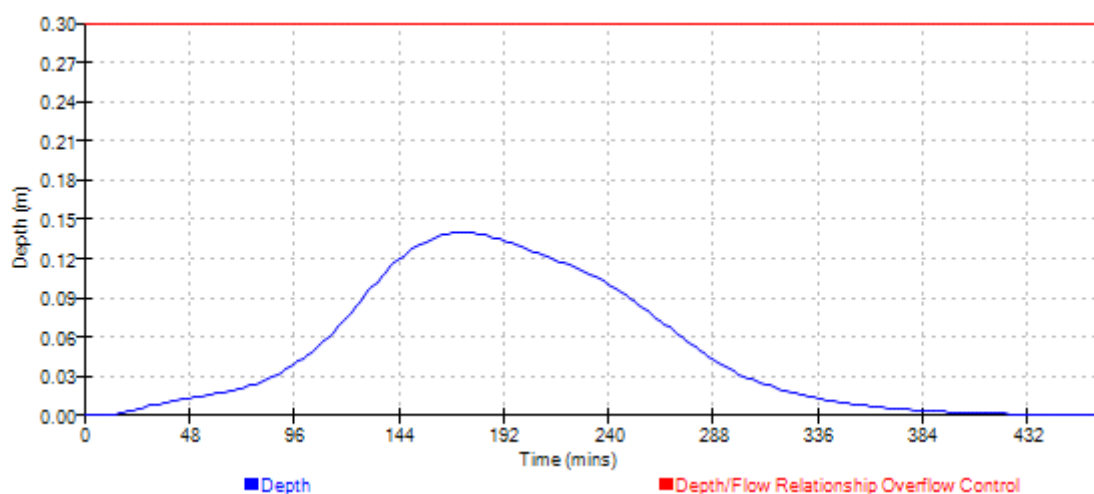
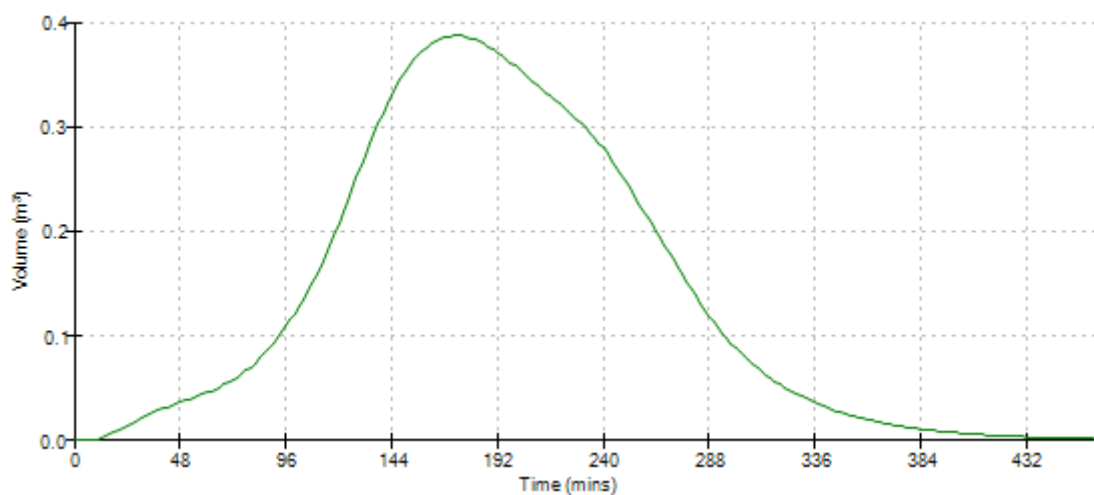
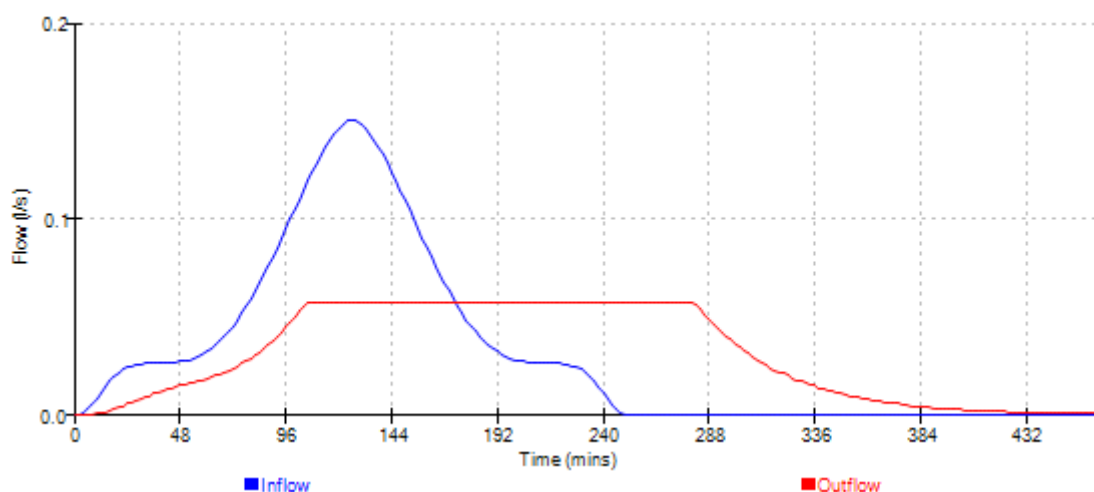
Event: 120 min winter



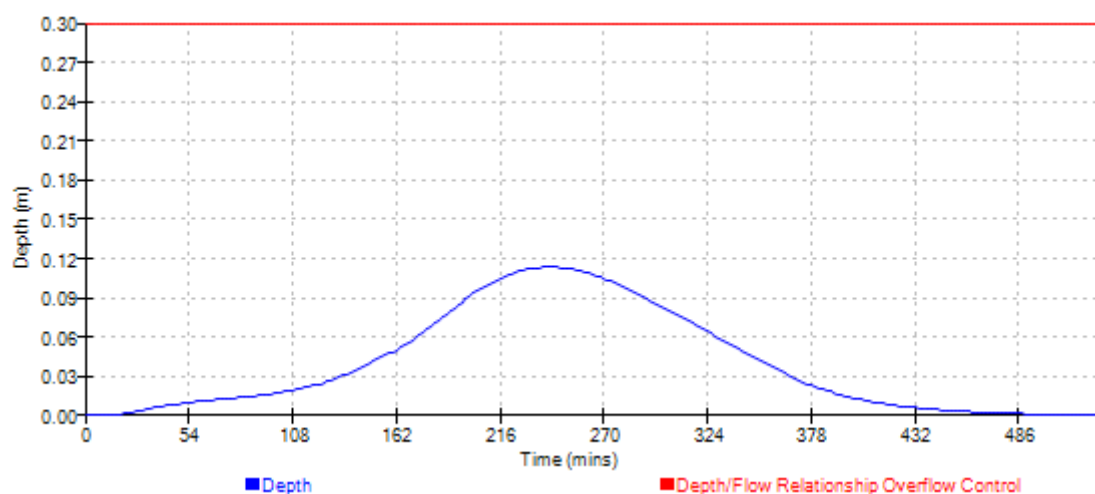
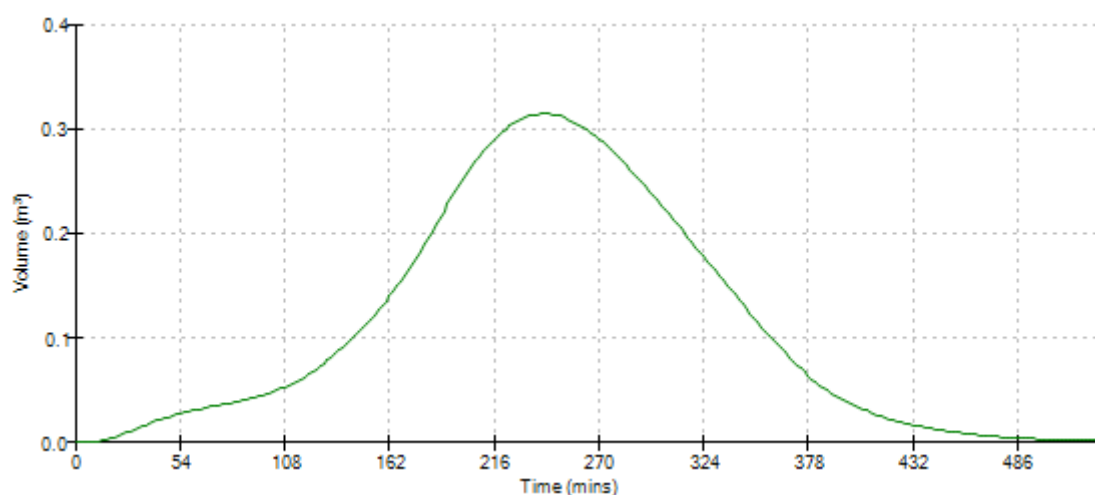
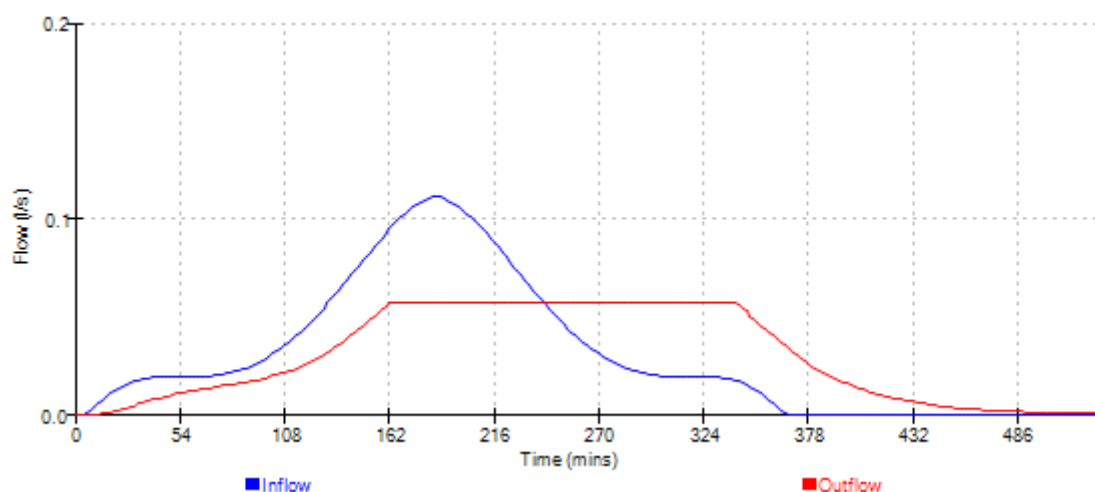
Event: 180 min winter



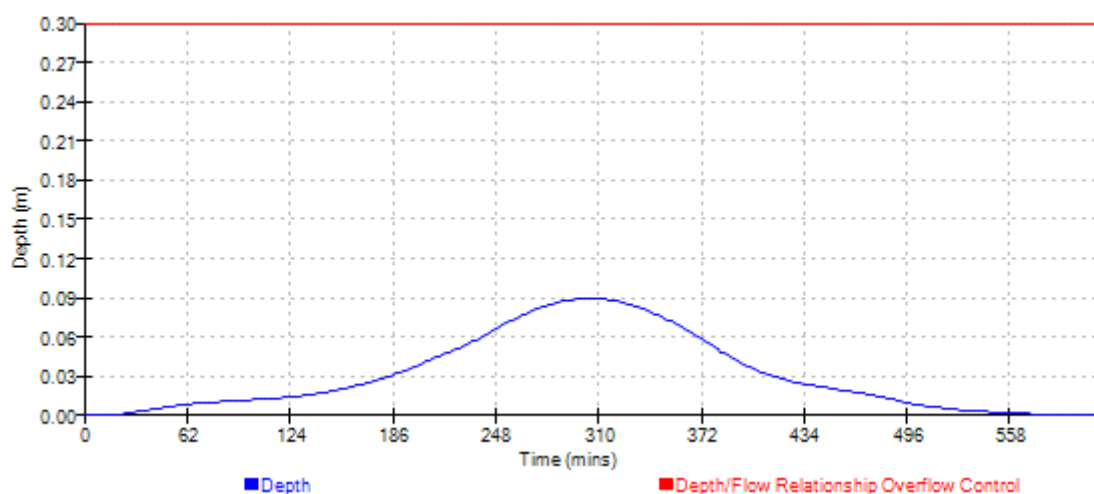
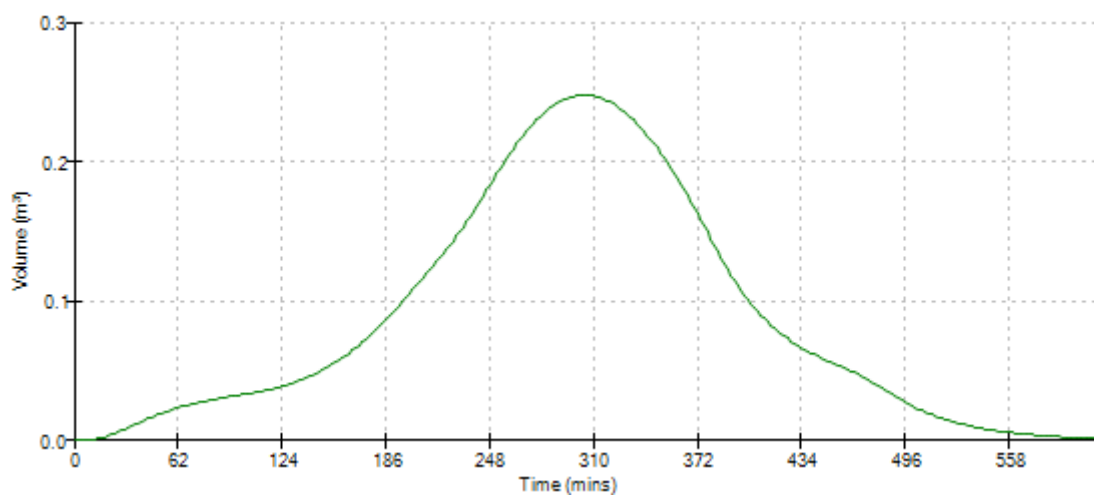
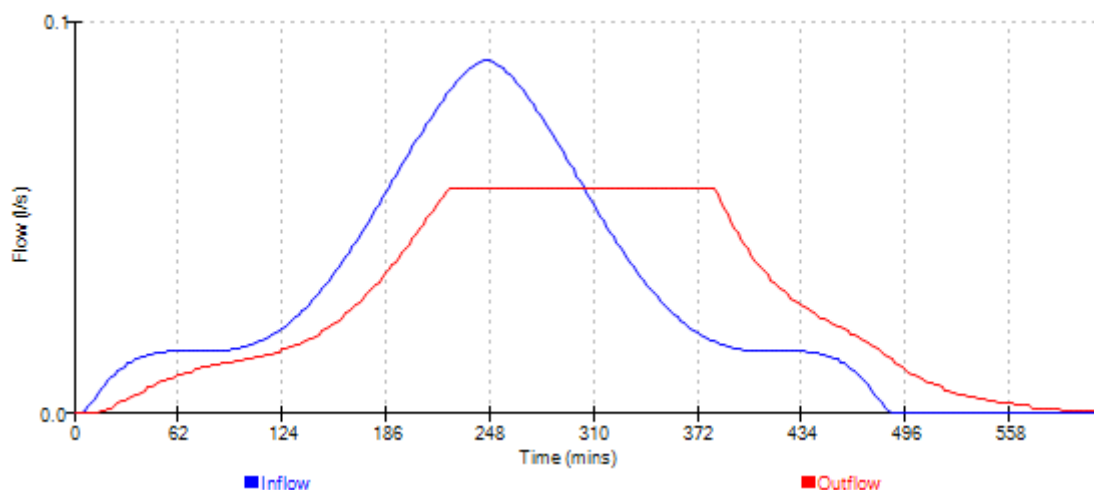
Event: 240 min winter



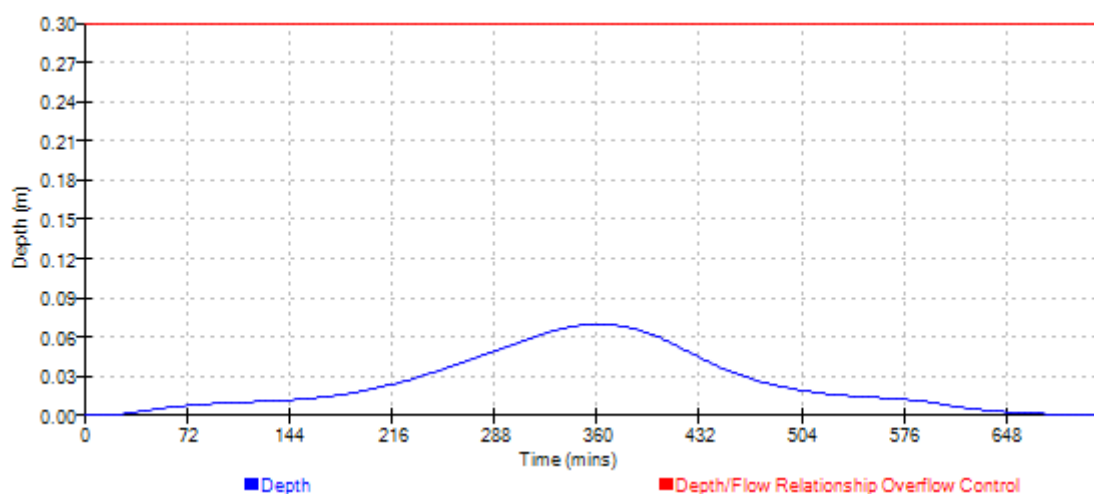
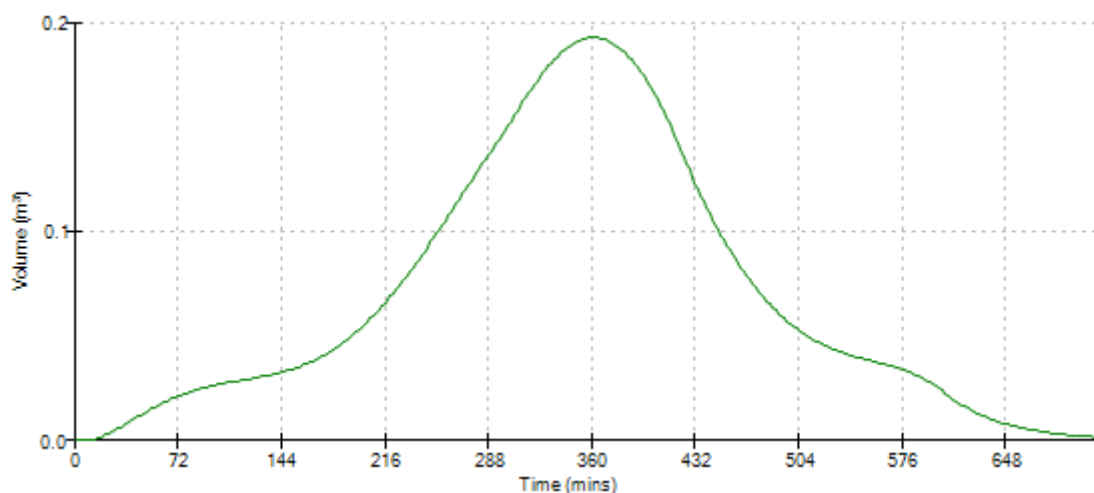
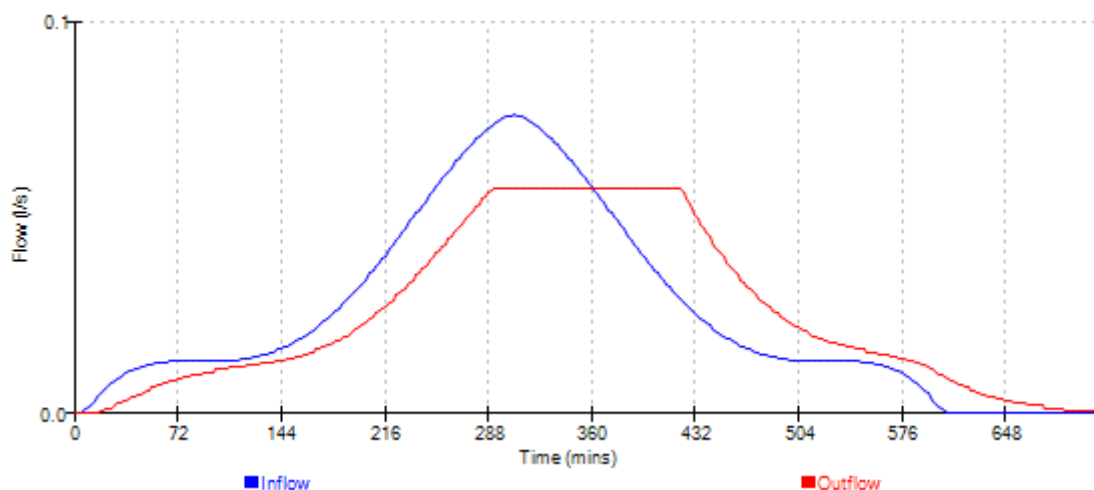
Event: 360 min winter



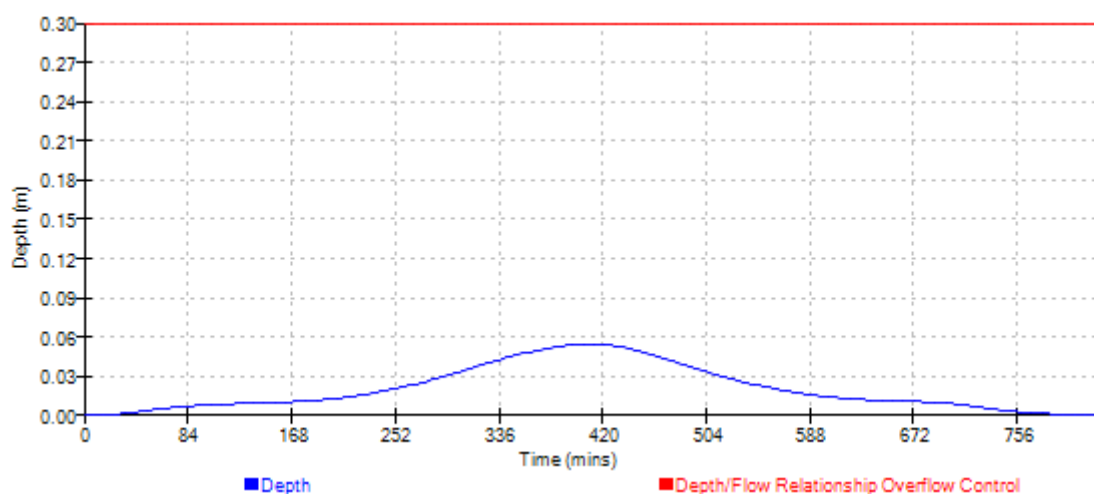
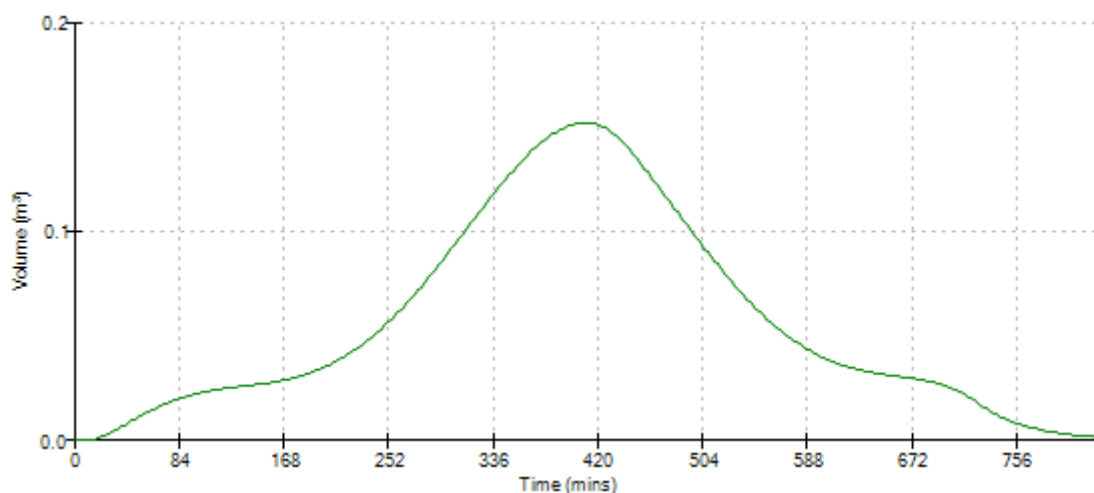
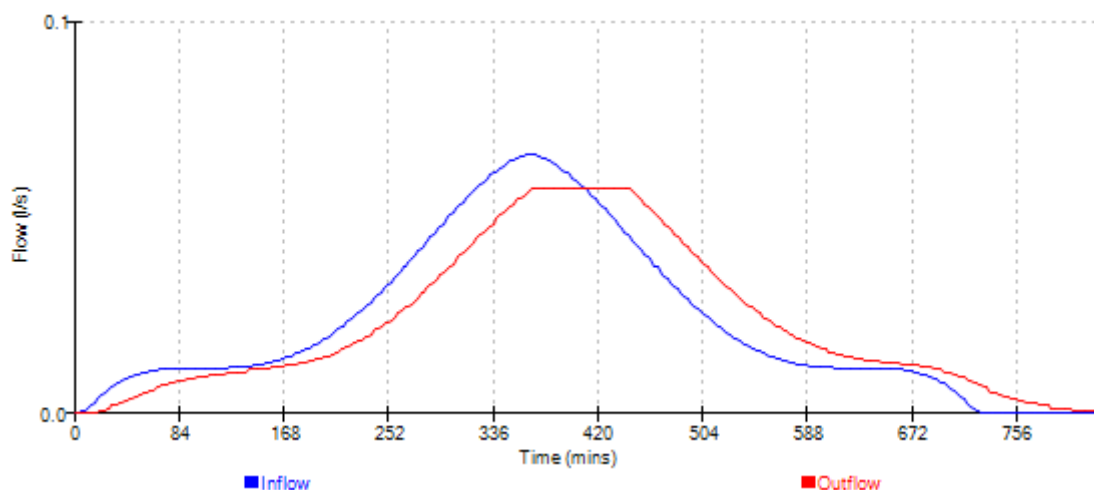
Event: 480 min winter



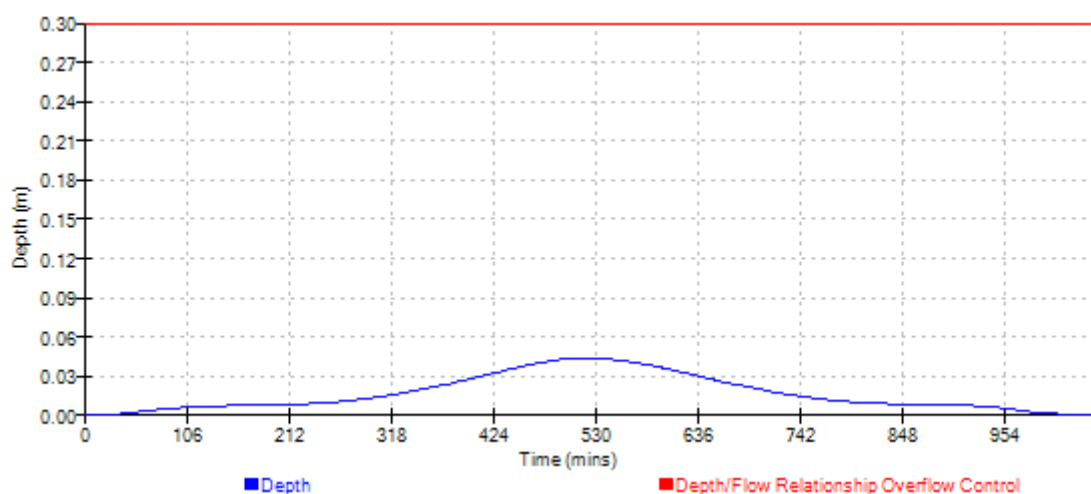
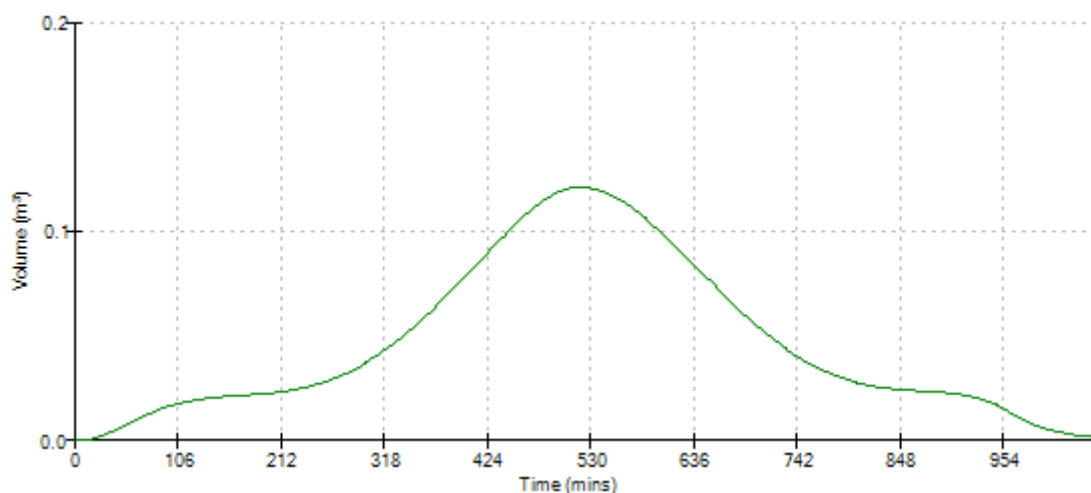
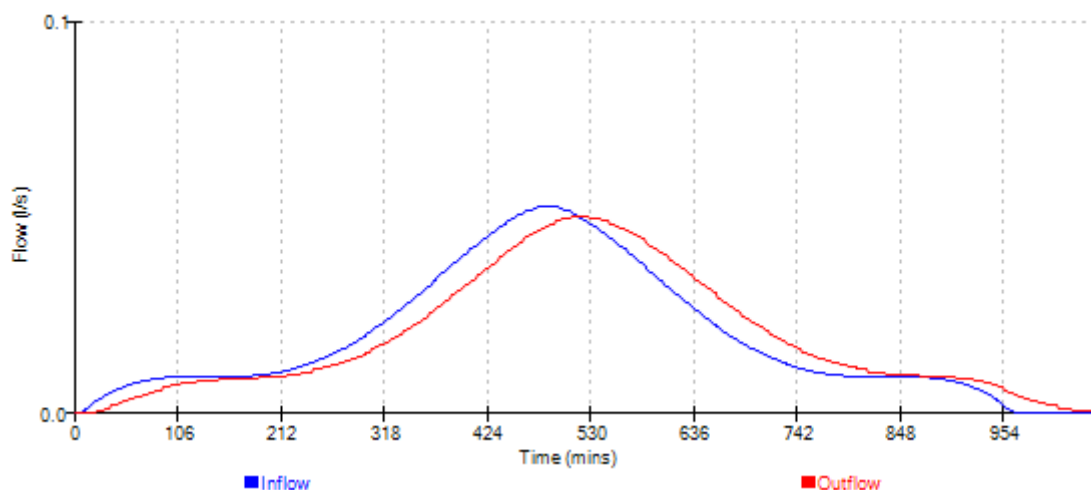
Event: 600 min winter



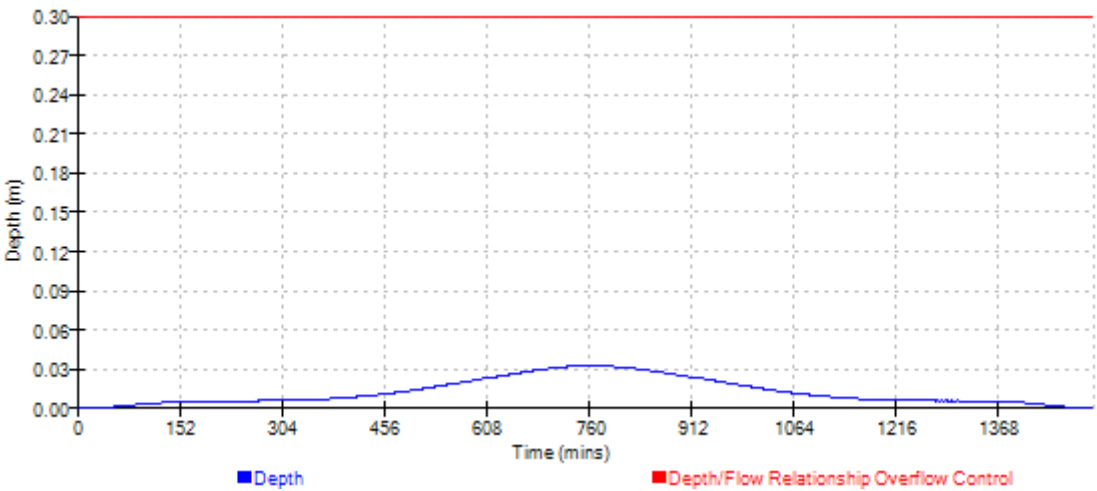
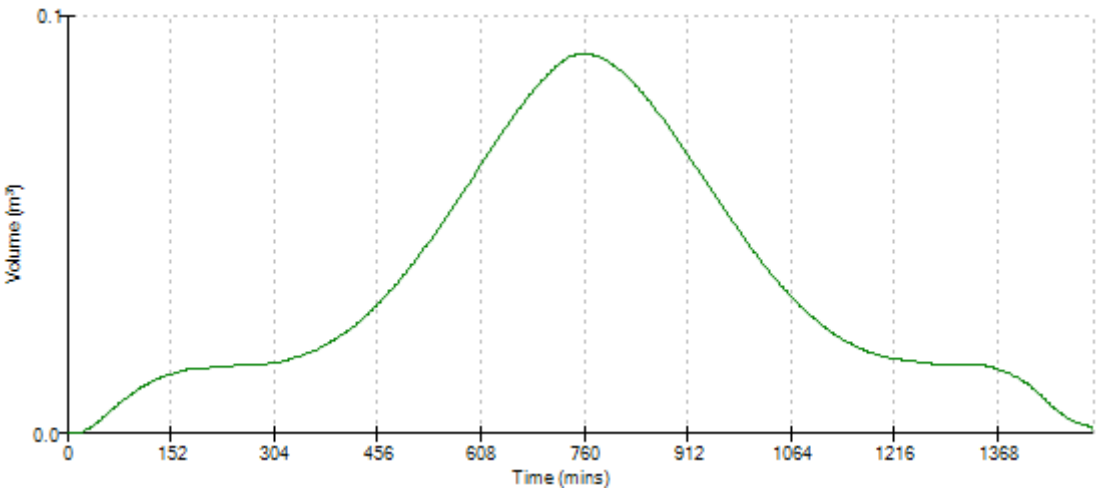
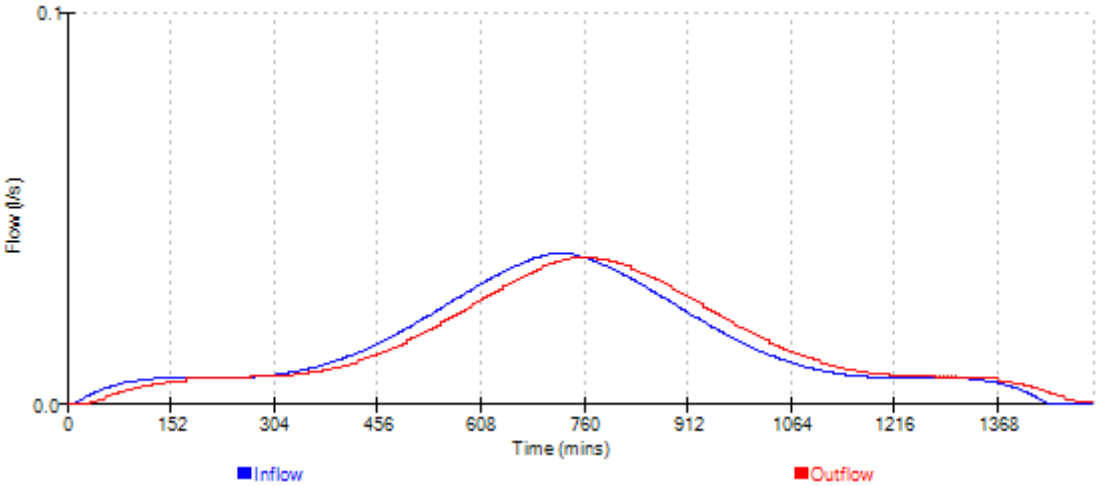
Event: 720 min winter



Event: 960 min winter

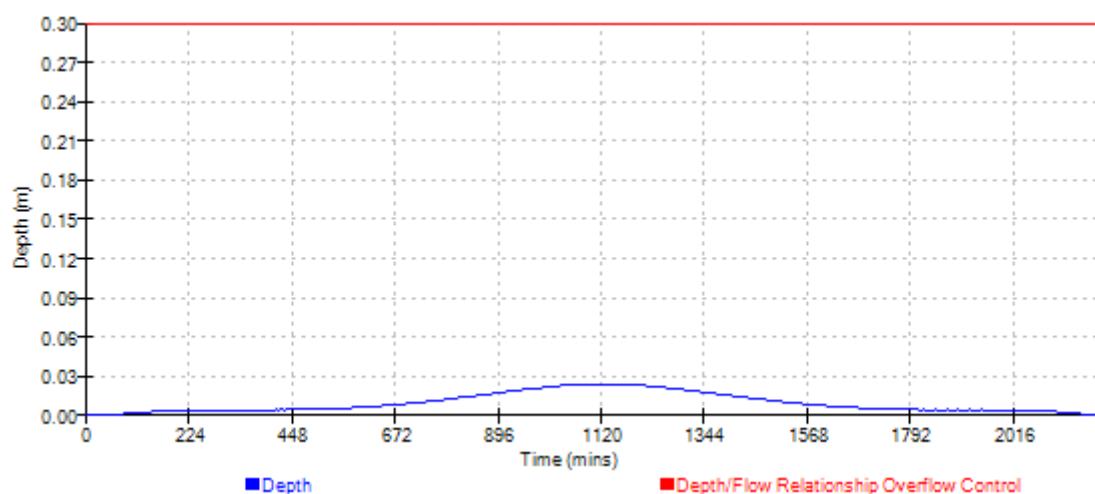
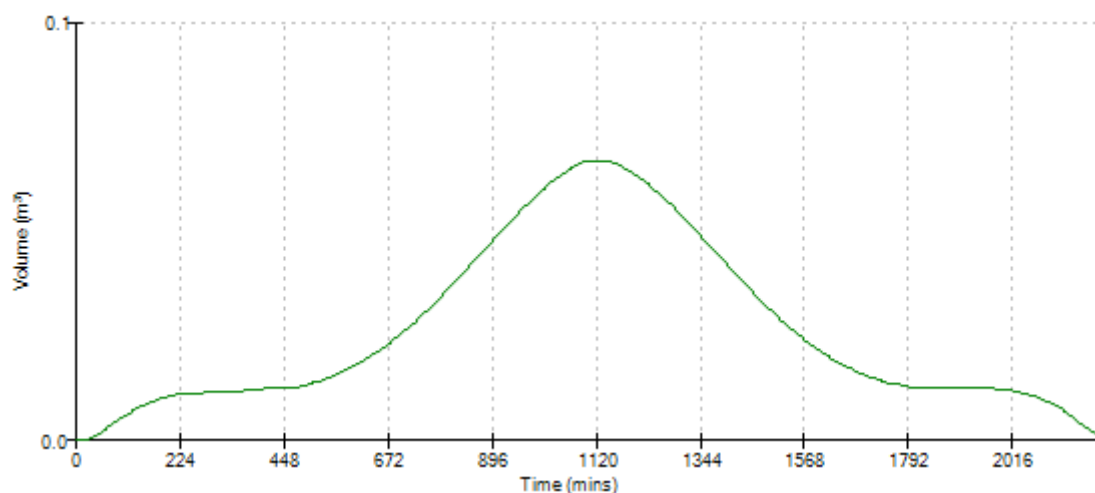
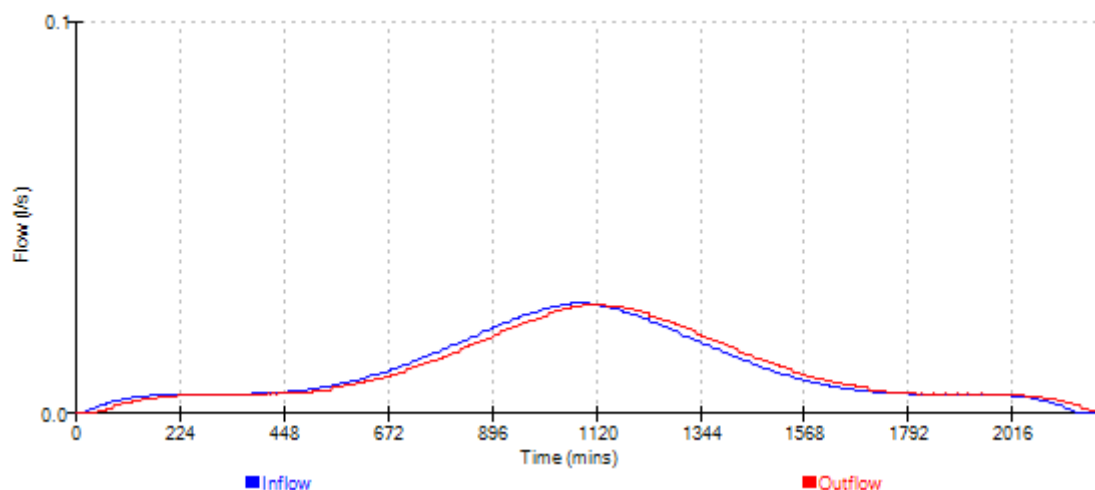


Event: 1440 min Winter



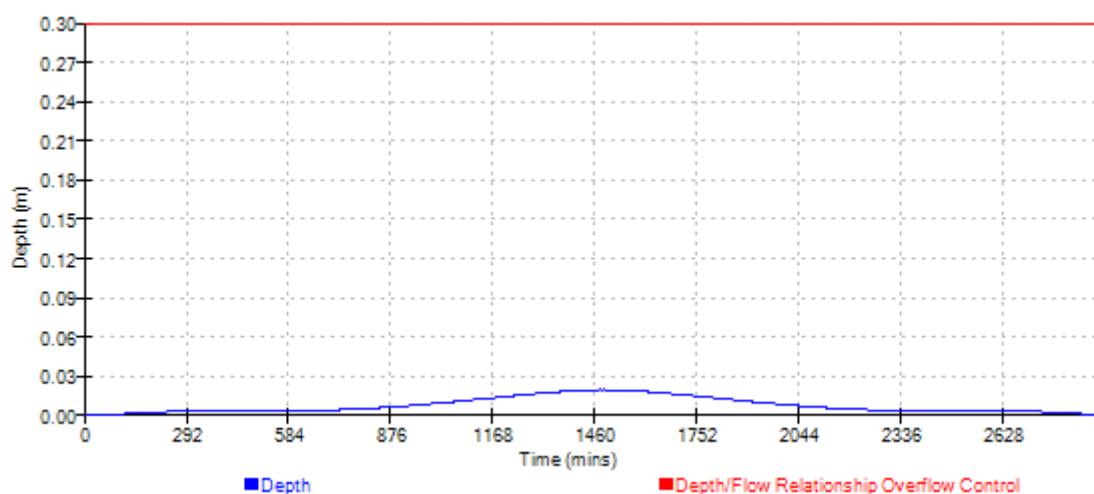
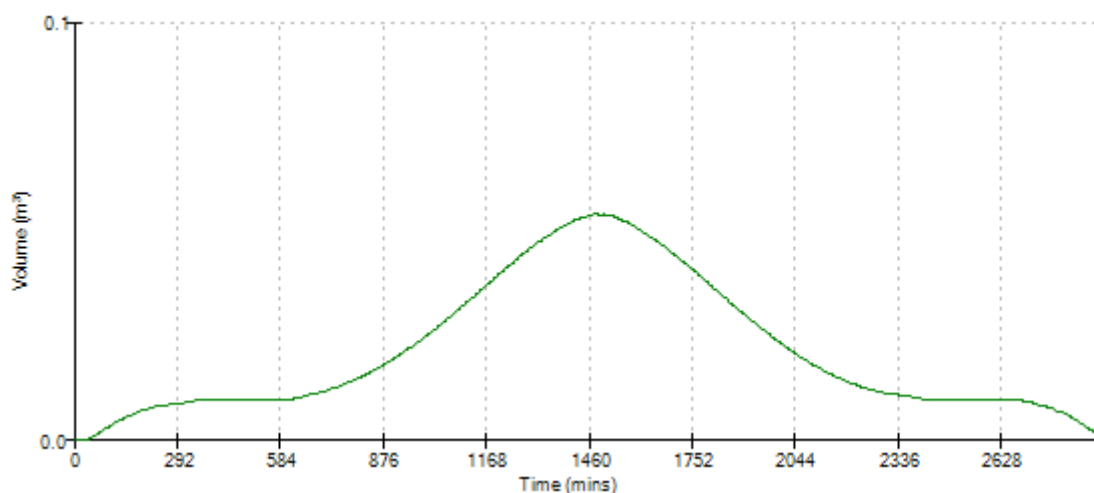
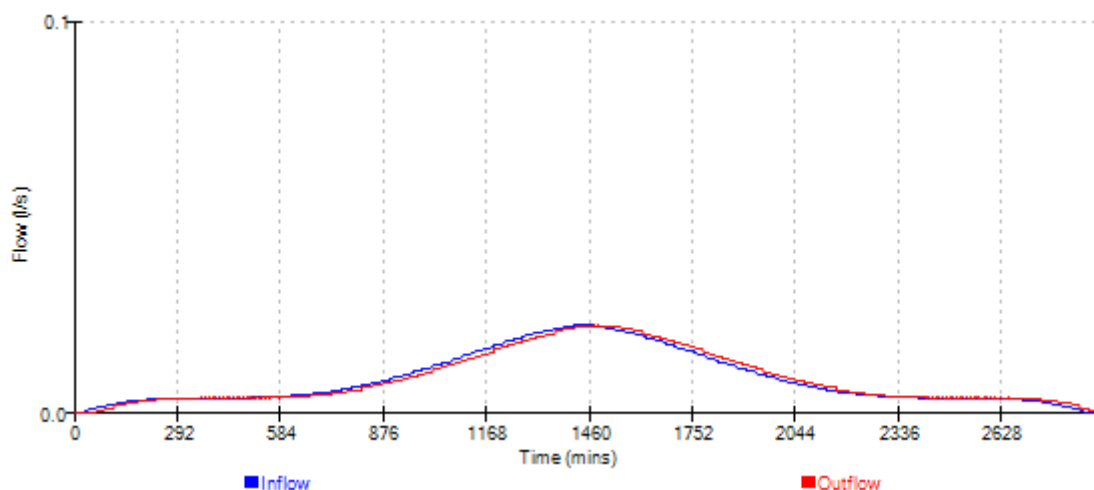
Dixon Hurst Kemp		Page 36
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 2160 min Winter



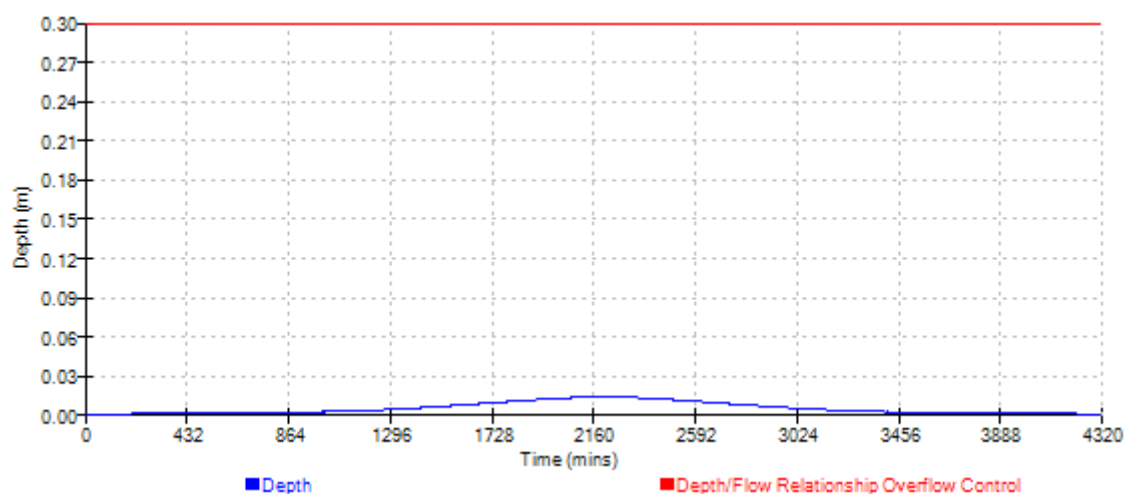
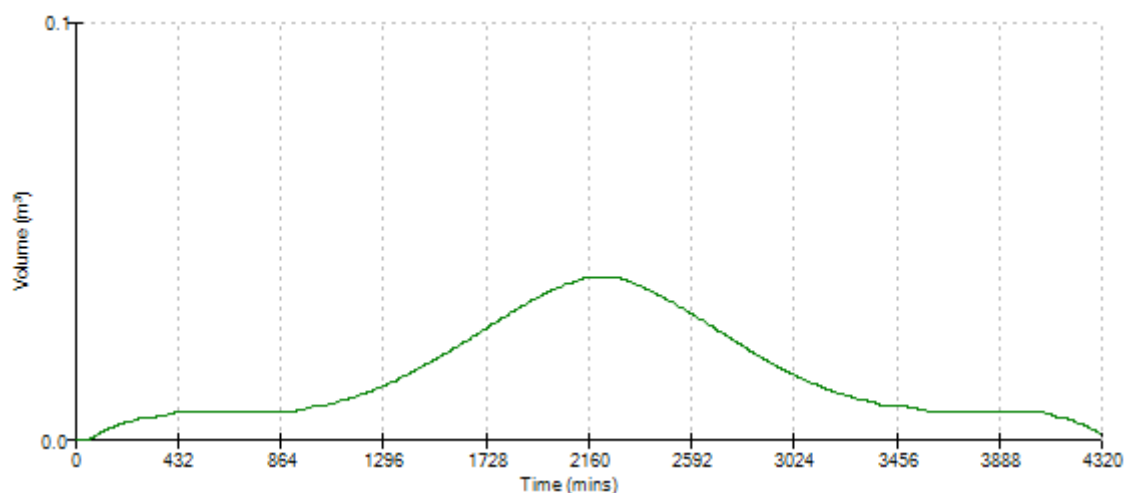
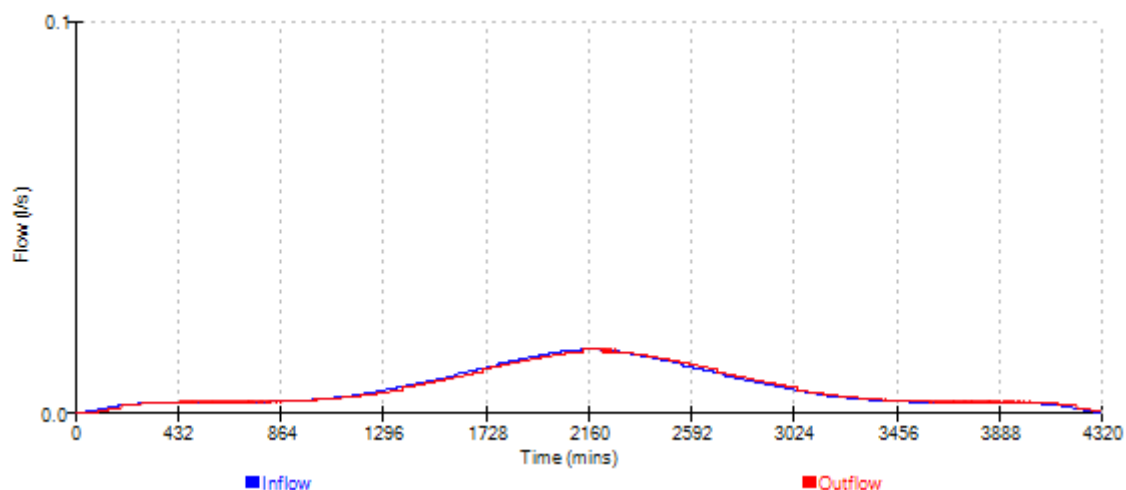
Dixon Hurst Kemp		Page 37
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

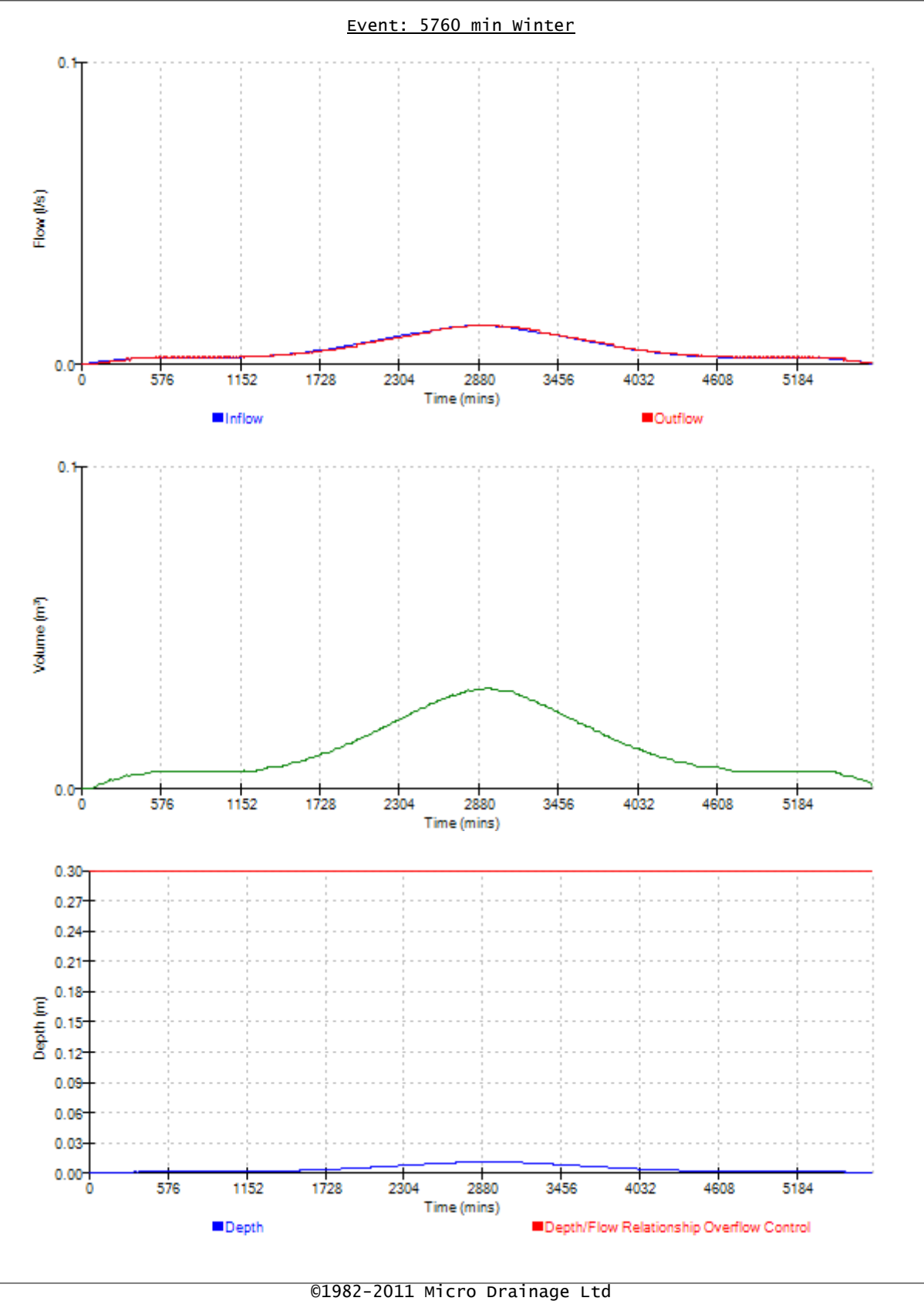
Event: 2880 min Winter



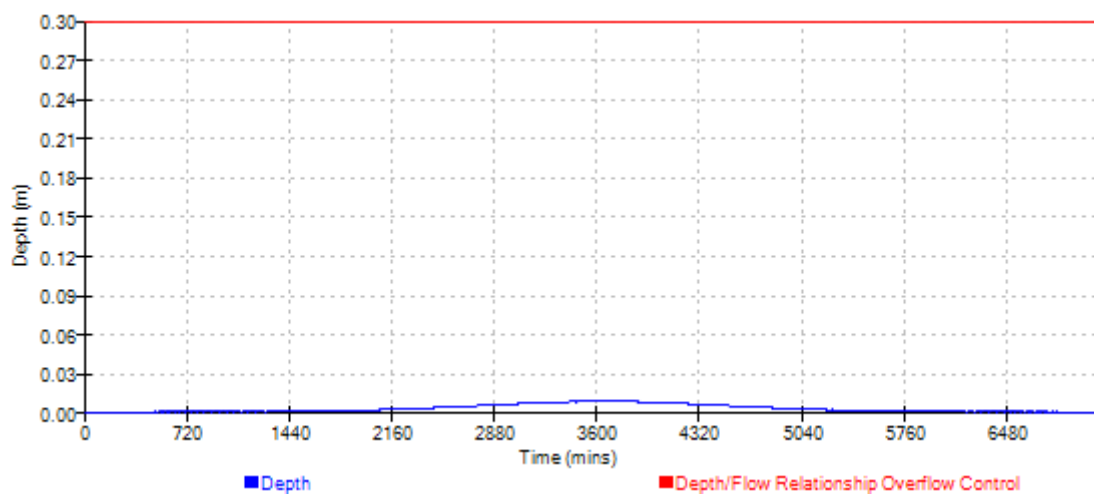
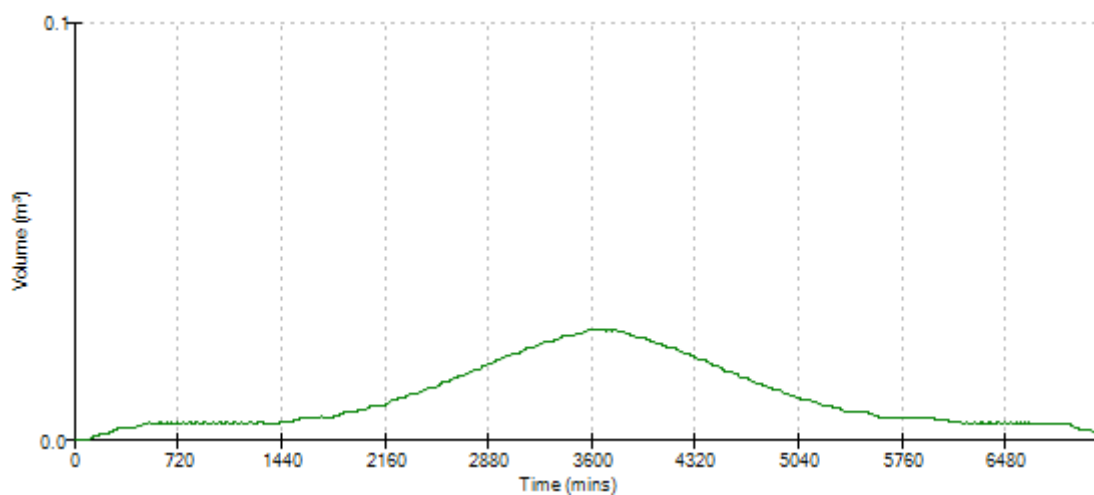
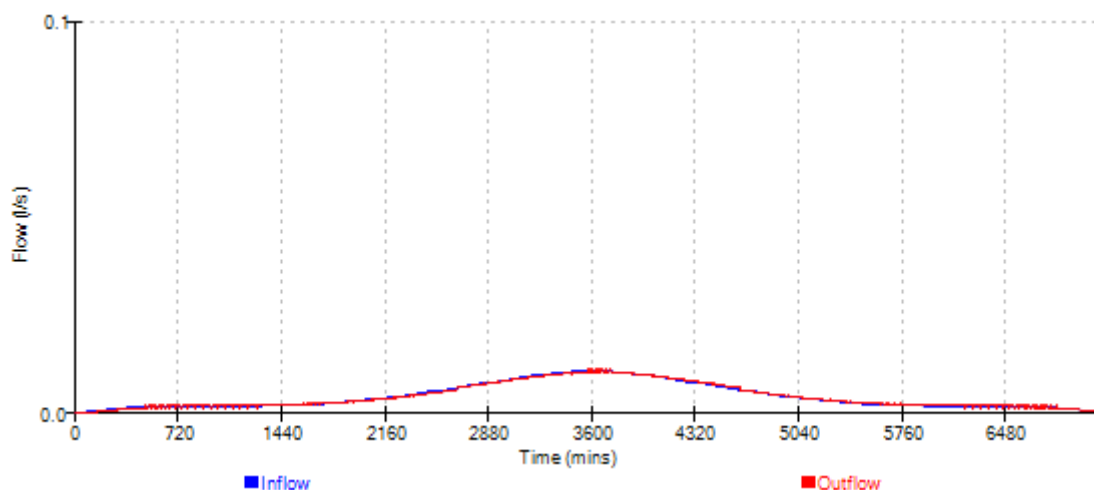
Dixon Hurst Kemp		Page 38
Victoria Court 22 St Pancras West Sussex PO19 7GD	Hurst Road, Hassocks	
	Surface Water Drainage Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 4320 min Winter



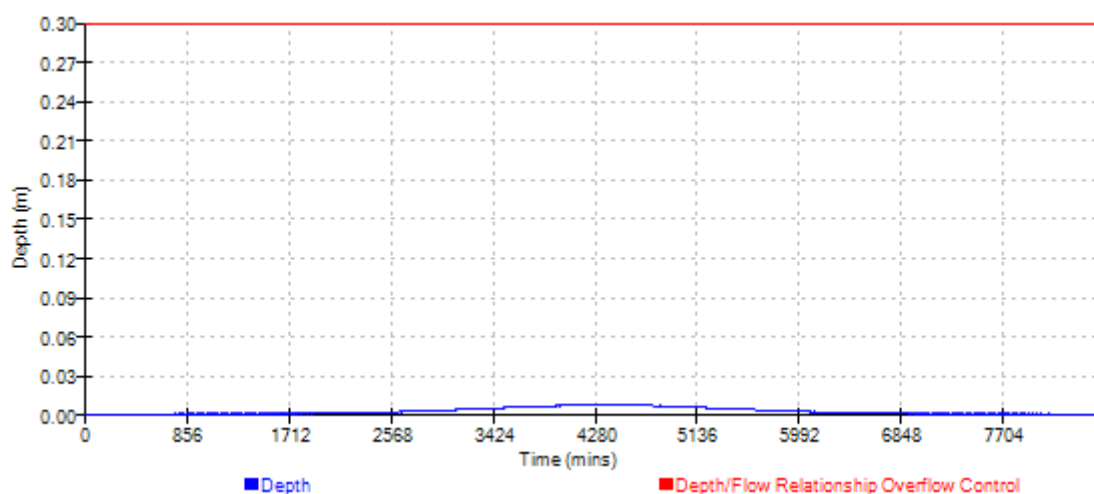
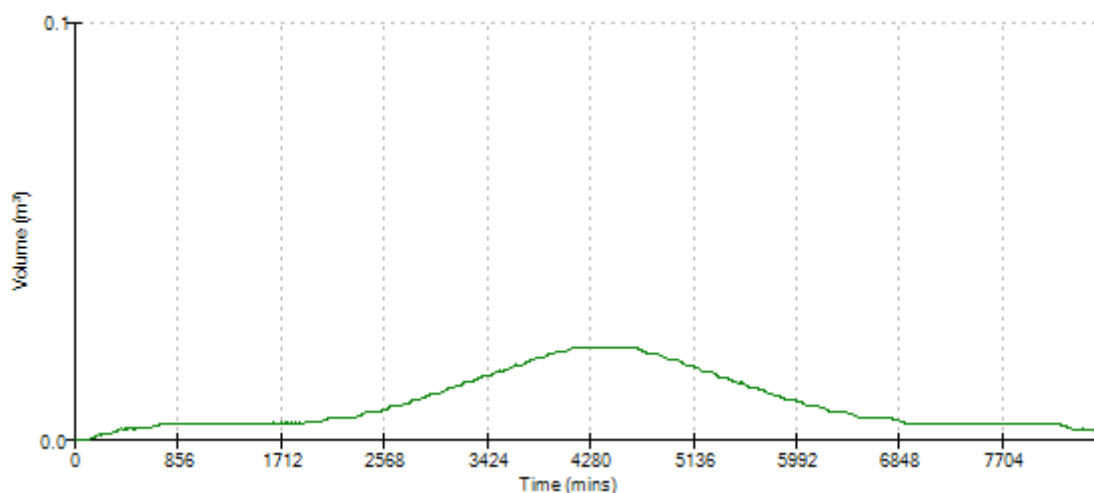
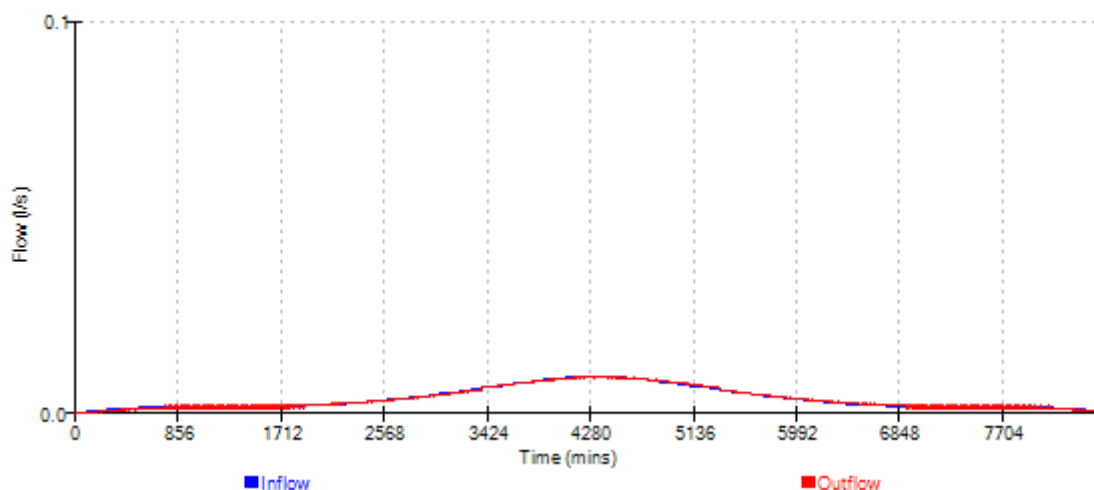


Event: 7200 min Winter



Dixon Hurst Kemp		Page 41
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 8640 min Winter



Dixon Hurst Kemp		Page 42
Victoria Court	Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Rain Garden Design Rev04	
Date Nov 25	Designed by JS	
File Rain Garden storage ...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 10080 min Winter

