Project:	Date:		
Longhedge	07/07/2023		
	Designed by:	Checked by:	Approved By:
	Chris H	Matt TE	
Report Details:	Company Address:		
Type: Inflows Storm Phase: Phase			

Catchment Area

Type : Catchment Area

Area (ha)	0.085

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project:	Date:		
Longhedge	07/07/2023		
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Type: Stormwater Controls Storm Phase: Phase			



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	100.000
Depth (m)	1.041
Base Level (m)	98.959
Freeboard (mm)	0
Soakaway Shape	Rectangular
Diameter / Width (m)	6.600
Length (m)	6.000
Porosity (%)	95
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.1714
Side Infiltration Rate (m/hr)	0.1714
Safety Factor	2.0
Total Volume (m³)	39.162

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Project: Longhedge	Date: 07/07/2023		
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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:		

FSR: 100 years: Increase Rainfall (%): +40: Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. Avg. Level (m)	Max. Avg. Depth (m)	Max. Resident Volume (m^3)	Half Drain Down Time (mins)	Status
FSR: 100 years: +40 %: 15 mins: Summer	99.453	0.494	18.592	141	OK
FSR: 100 years: +40 %: 15 mins: Winter	99.516	0.557	20.947	155	OK
FSR: 100 years: +40 %: 30 mins: Summer	99.606	0.647	24.370	235	OK
FSR: 100 years: +40 %: 30 mins: Winter	99.690	0.731	27.526	253	OK
FSR: 100 years: +40 %: 60 mins: Summer	99.749	0.790	29.747	247	OK
FSR: 100 years: +40 %: 60 mins: Winter	99.855	0.896	33.744	257	OK
FSR: 100 years: +40 %: 120 mins: Summer	99.852	0.893	33.585	240	OK
FSR: 100 years: +40 %: 120 mins: Winter	99.985	1.026	38.609	251	OK
FSR: 100 years: +40 %: 180 mins: Summer	99.869	0.910	34.224	228	OK
FSR: 100 years: +40 %: 180 mins: Winter	100.018	1.059	39.862	243	Flood
FSR: 100 years: +40 %: 240 mins: Summer	99.858	0.899	33.827	217	OK
FSR: 100 years: +40 %: 240 mins: Winter	100.011	1.052	39.608	265	Flood
FSR: 100 years: +40 %: 360 mins: Summer	99.823	0.864	32.510	205	OK
FSR: 100 years: +40 %: 360 mins: Winter	99.974	1.015	38.190	240	OK

FSR: 100 years: +40 %: 480 mins: Summer	99.792	0.833	31.326	224	OK
FSR: 100 years: +40 %: 480 mins: Winter	99.929	0.970	36.487	225	OK
FSR: 100 years: +40 %: 600 mins: Summer	99.762	0.803	30.213	211	OK
FSR: 100 years: +40 %: 600 mins: Winter	99.881	0.922	34.702	212	OK
FSR: 100 years: +40 %: 720 mins: Summer	99.733	0.774	29.116	200	OK
FSR: 100 years: +40 %: 720 mins: Winter	99.839	0.880	33.097	213	OK
FSR: 100 years: +40 %: 960 mins: Summer	99.676	0.717	26.988	182	OK
FSR: 100 years: +40 %: 960 mins: Winter	99.752	0.793	29.818	198	OK
FSR: 100 years: +40 %: 1440 mins: Summer	99.569	0.610	22.948	164	OK
FSR: 100 years: +40 %: 1440 mins: Winter	99.590	0.631	23.728	161	OK
FSR: 100 years: +40 %: 2160 mins: Summer	99.425	0.466	17.548	132	OK
FSR: 100 years: +40 %: 2160 mins: Winter	99.386	0.427	16.049	118	OK
FSR: 100 years: +40 %: 2880 mins: Summer	99.309	0.350	13.164	101	OK
FSR: 100 years: +40 %: 2880 mins: Winter	99.226	0.267	10.039	79	OK
FSR: 100 years: +40 %: 4320 mins: Summer	99.135	0.176	6.618	55	OK
FSR: 100 years: +40 %: 4320 mins: Winter	99.011	0.052	1.944	17	OK
FSR: 100 years: +40 %: 5760 mins: Summer	99.024	0.066	2.464	21	OK

FSR: 100 years: +40 %: 5760 mins: Winter	98.959	0.000	0.000	0	OK
FSR: 100 years: +40 %: 7200 mins: Summer	98.969	0.010	0.369	3	OK
FSR: 100 years: +40 %: 7200 mins: Winter	98.959	0.000	0.000	0	OK
FSR: 100 years: +40 %: 8640 mins: Summer	98.959	0.000	0.000	0	OK
FSR: 100 years: +40 %: 8640 mins: Winter	98.959	0.000	0.000	0	OK
FSR: 100 years: +40 %: 10080 mins: Summer	98.959	0.000	0.000	0	OK
FSR: 100 years: +40 %: 10080 mins: Winter	98.959	0.000	0.000	0	OK

Project: Longhedge	Date: 07/07/2023		
	Designed by: Chris H	Checked by: Matt TE	Approved By:
Report Details: Type: Phase Management Storm Phase: Phase	Company Address:		

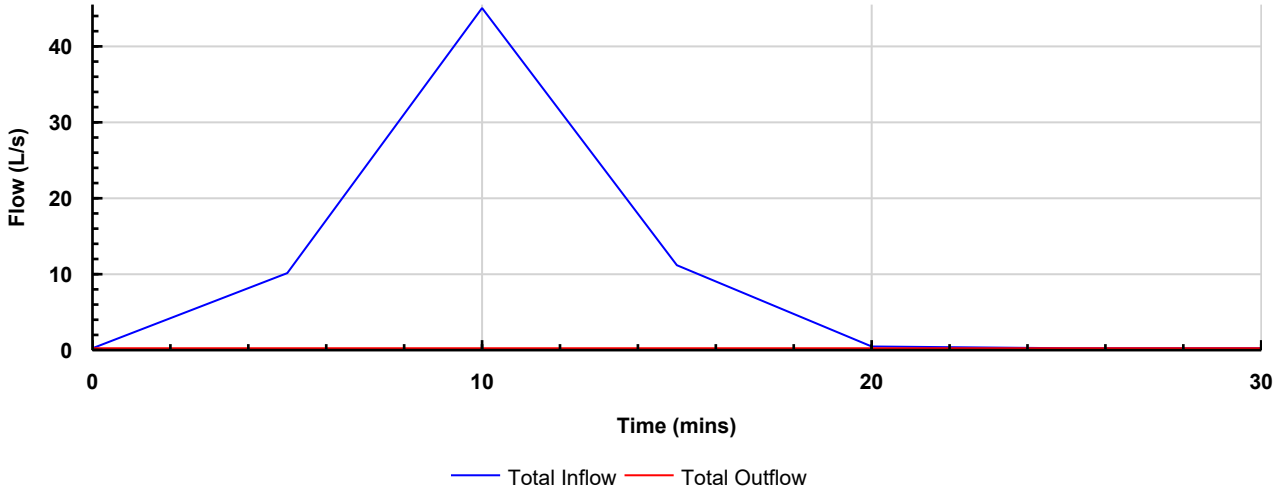
Phase
FSR: 100 years: Increase Rainfall (%): +40: 15 mins: Summer

Tables

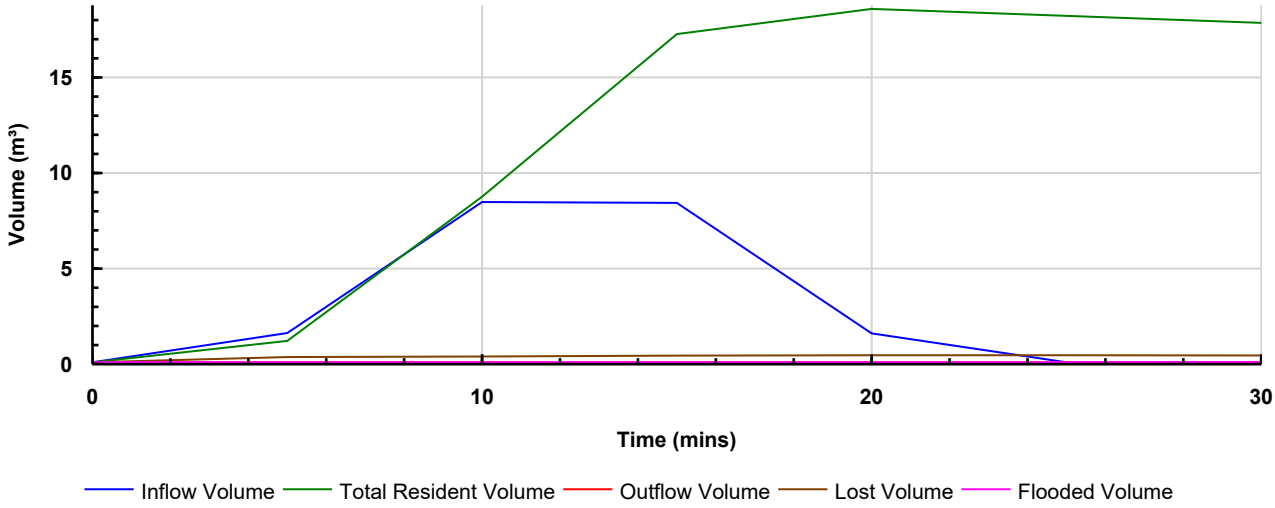
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	45.0	19.871	0.0	0.000

Graphs

Flow Graph



Volume Graph



Project: Longhedge	Date: 07/07/2023		
	Designed by: Chris H	Checked by: Matt TE	Approved By:
Report Details: Type: Inflow Results Storm Phase: Phase	Company Address:		

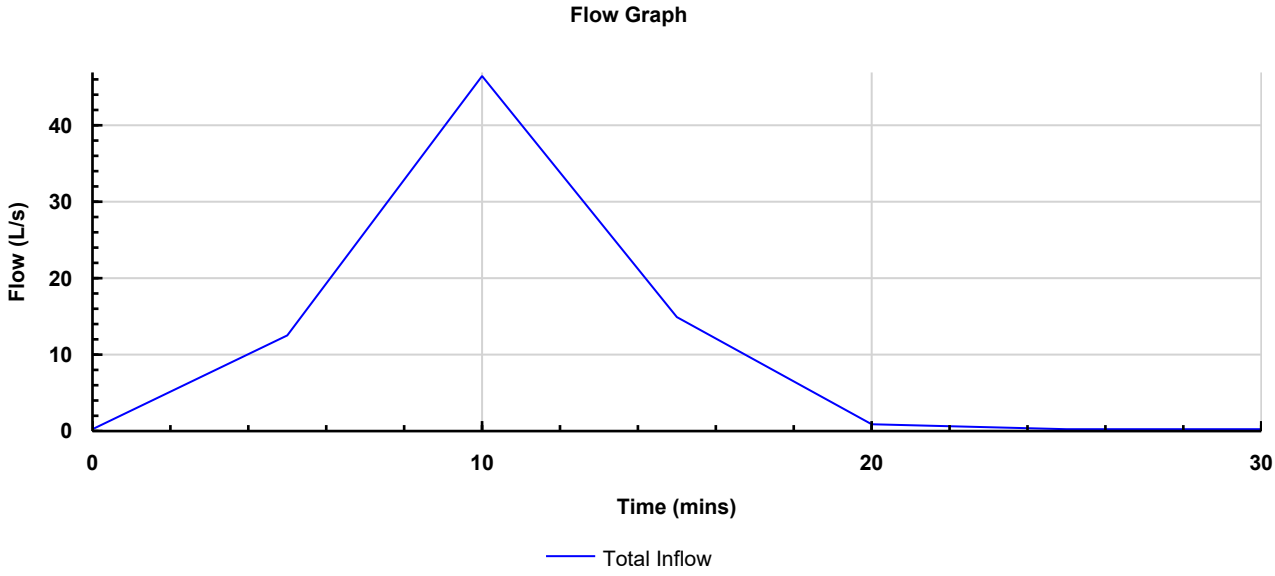
Catchment Area
Critical by Return Period: FSR: 100 years: Increase Rainfall (%): +40: 15 mins: Winter

Type : Catchment Area

Inflow

Max. Inflow (L/s)	46.4
Total Inflow Volume (m³)	22.255

Graphs

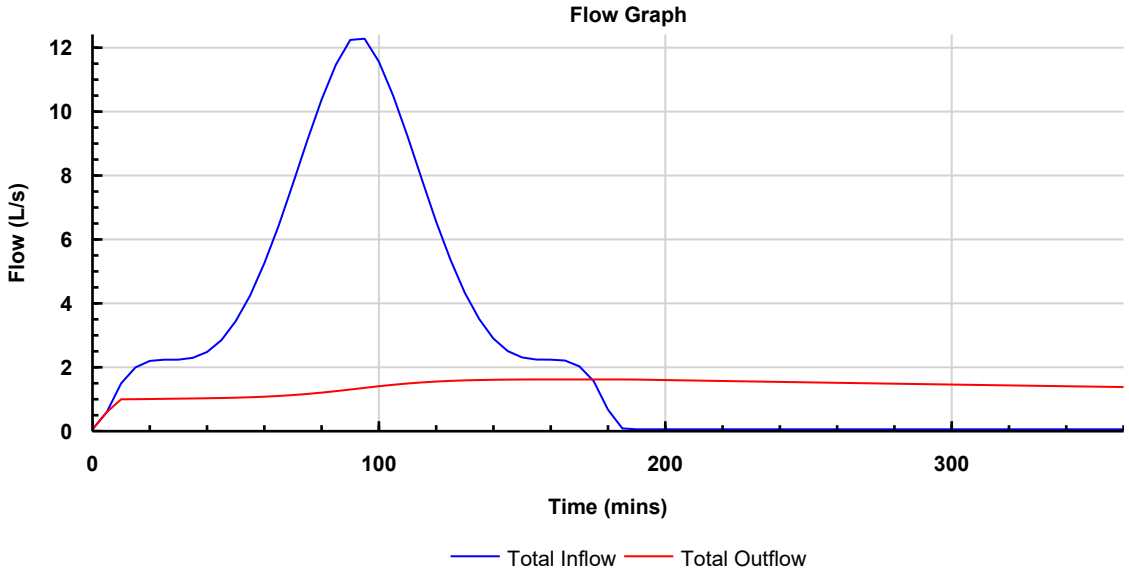


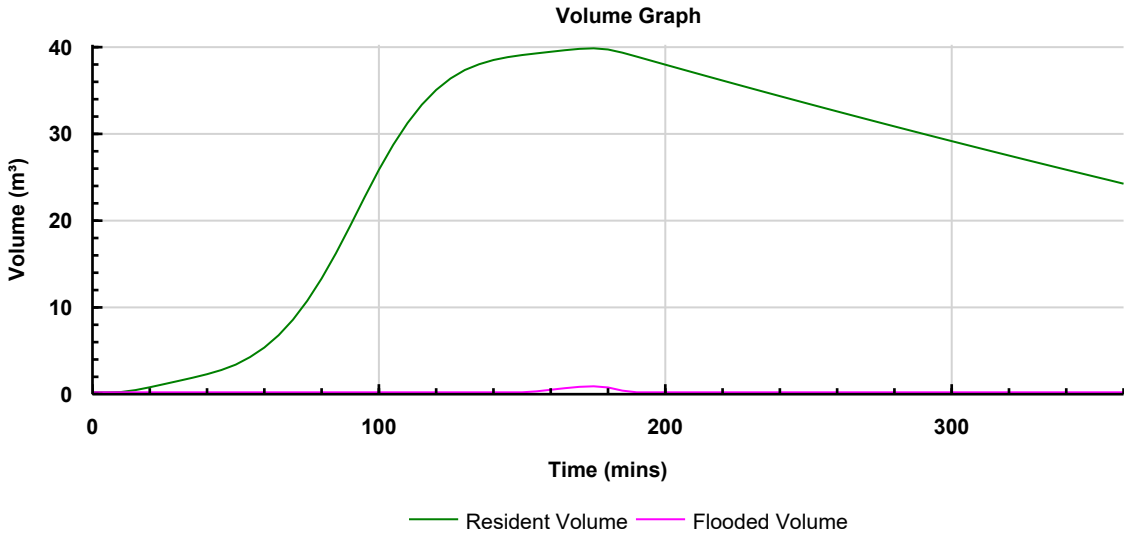
Project: Longhedge	Date: 07/07/2023		
	Designed by: Chris H	Checked by: Matt TE	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: Phase	Company Address:		

Soakaway
Critical by Return Period: FSR: 100 years: Increase Rainfall (%): +40: 180 mins: Winter

Type : Soakaway

Graphs





Project: Longhedge	Date: 07/07/2023		
	Designed by: Chris H	Checked by: Matt TE	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: Phase	Company Address:		

