

Project: 14730 West Lavington Village Hall		Date: 17/08/2026			
		Designed by: PR	Checked by: SW		Approved By:
Report Details: Type: Junctions Storm Phase: 1 in 30		Company Address: Old Brewery House, Portersbridge St Romsey SO51 8DJ			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Sump Depth (m)	Chamber Shape
SW IC 01	Manhole	400424.922	153608.178	88.340	0.828	87.512	0.500	Circular
SW IC 02	Manhole	400430.427	153615.744	87.600	1.082	86.518	0.500	Circular

Name	Diameter (m)	Lock
SW IC 01	0.450	None
SW IC 02	0.450	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
SW IC 01	Inlet	Carpark Catchment Area	(None)	No Restriction
SW IC 02	Inlet	Pipe	(None)	No Restriction

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
SW IC 01	Outlet	Pipe	Free Discharge
SW IC 02	Outlet	Pipe (1)	Free Discharge

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Cellular Storage

Type : Cellular Storage

Dimensions

Exceedance Level (m)	87.496
Depth (m)	0.800
Base Level (m)	85.936
Number of Crates Long	10
Number of Crates Wide	18
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	69.160

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (1)
Bypass Destination	(None)
Capacity Type	No Restriction

Advanced

Base Infiltration Rate (m/hr)	0.0166
Side Infiltration Rate (m/hr)	0.0166
Safety Factor	1.5

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Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Carpark Catchment Area	SW IC 01		Time of Concentration	0.105	100	10	110	0.115
TOTAL		0.0		0.105				0.115

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Report Title: Rainfall Analysis Criteria	Company Address: Old Brewery House, Portersbridge St Romsey SO51 8DJ		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	10
Junction Flood Risk Margin (mm)	100
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

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FSR: 5 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SW IC 01	FSR: 5 years: +45 %: 15 mins: Winter	88.340	87.512	88.075	0.563	19.1	0.090	0.000	19.0	16.536	OK
SW IC 02	FSR: 5 years: +45 %: 15 mins: Winter	87.600	86.518	87.072	0.554	19.0	0.088	0.000	19.0	15.929	OK

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FSR: 30 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SW IC 01	FSR: 30 years: +45 %: 30 mins: Winter	88.340	87.512	88.093	0.581	28.3	0.092	0.000	28.3	32.651	OK
SW IC 02	FSR: 30 years: +45 %: 15 mins: Winter	87.600	86.518	87.083	0.565	28.0	0.090	0.000	28.0	23.981	OK

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FSR: 5 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Cellular Storage	FSR: 5 years: +45 %: 960 mins: Winter	86.432	86.432	0.496	0.496	2.6	42.430	0.000	34.774	0.0	0.000	38.649	OK

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FSR: 30 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Cellular Storage	FSR: 30 years: +45 %: 960 mins: Winter	86.722	86.722	0.786	0.786	3.8	67.222	0.000	37.869	0.0	0.000	2.802	OK

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FSR: 5 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe	FSR: 5 years: +45 %: 15 mins: Winter	Pipe	SW IC 01	SW IC 02	88.340	88.075	0.061	16.536	2.8	0.33	19.0	OK
Pipe (1)	FSR: 5 years: +45 %: 15 mins: Winter	Pipe	SW IC 02	Cellular Storage	87.600	87.072	0.099	15.929	4.4	0.25	19.0	OK

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FSR: 30 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe	FSR: 30 years: +45 %: 30 mins: Winter	Pipe	SW IC 01	SW IC 02	88.340	88.093	0.077	32.651	3.1	0.48	28.3	OK
Pipe (1)	FSR: 30 years: +45 %: 30 mins: Winter	Pipe	SW IC 02	Cellular Storage	87.600	87.082	0.150	32.036	4.5	0.37	28.3	OK