

**FLOOD RISK ASSESSMENT & SuDS REPORT FOR
LAND SOUTH OF HAMMERWOOD ROAD, ASHURST
WOOD, WEST SUSSEX, RH19 3RX**

DOCUMENT NUMBER: C3655-R1-REV-A

PREPARED BY



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1. SITE DETAILS

Site Name	Land South of Hammerwood Road
Site Address	Land South of Hammerwood Road, Ashurst Wood, West Sussex, RH19 3RX
Purpose of Development	Residential
Existing Land Use	Brownfield
County	West Sussex County Council
Country	England
Local Planning Authority	Mid Sussex District Council

1.1 Site Location

A location plan of the project site is provided within Appendix A.

1.2 Proposed Development

The proposal involves the erection of 12 dwellings, together with associated amenity space, car parking and landscaping.

1.3 Geology of The Area

According to the British Geological Survey, there are no superficial deposits information available at the site. The bedrock at the area consists of mudstone and is part of the Atherfield Clay formation, as shown in Figure 1 overleaf.

A BRE365 Percolation Test was conducted to determine the feasibility of infiltration at this site, and this will be discussed further in this report, below.

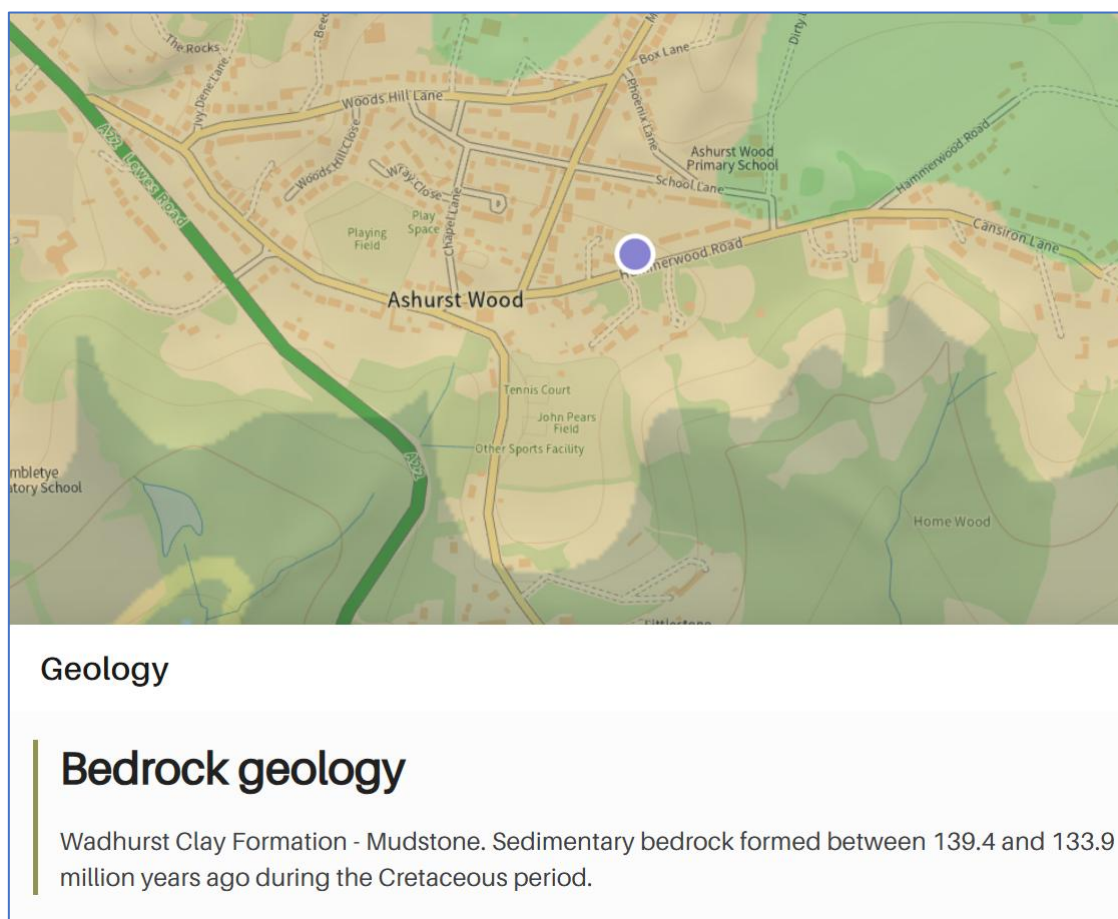


Figure 1 - Bedrock at the site. (Source: British Geological Society Website (contains British Geological Survey materials © NERC2025).

2. PLANNING POLICIES

2.1 National Planning Policies

The report has been written in conjunction with the following National planning policies:

- National Planning Policy Framework (December 2024)
- National Planning Practice Guidance Suite (August 2022)
- CIRIA SUDS manual (C753)

2.2 Local Planning Policy

The report has been written in conjunction with the following local planning policies:

- SFRA Level 1 and Level 2 for Mid Sussex District Council;

3. FLOOD RISK

The possible causes of flooding set out in NPPF are considered in this section in relation to flood risk to the site itself and the effects of the development of the site on the flood risk elsewhere.

3.1 Flood Zones

The Environment Agency has developed a flood risk map which shows the relative risk of flooding for different return periods. Flood zones assume that no defences are present and so where these do exist, they are only indicative of the potential for flooding.

The Environment Agency's Flood Map for Planning (Rivers and Sea), shown within Figure 2 overleaf, indicates the site is in Flood Zone 1 and is not at risk of flooding from rivers, or the sea.

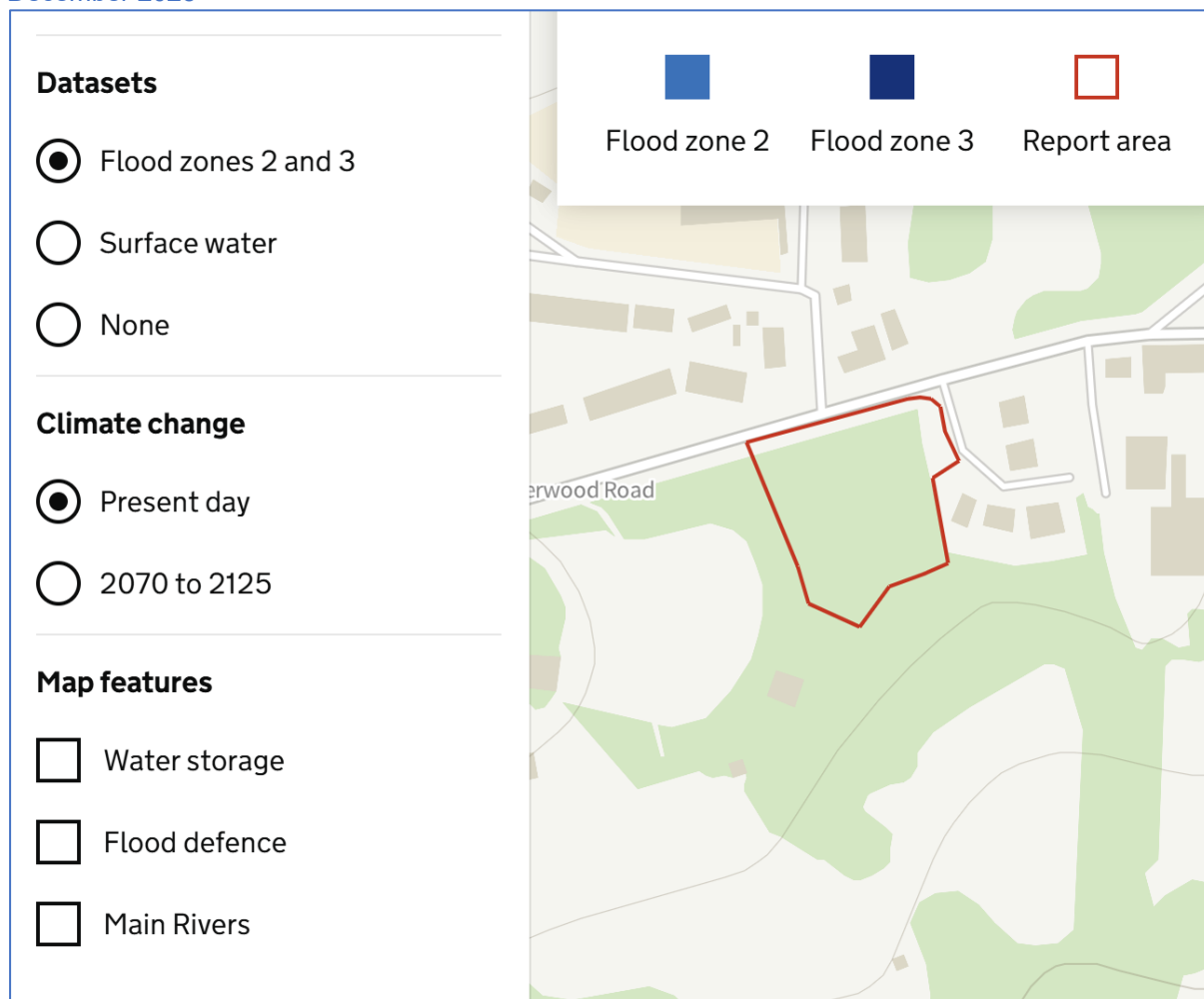


Figure 2 – Environment Agency Flood Map for flooding extent from rivers and sea for the proposed development

3.2 Flooding from Land (Overland Flow)

The proposed development site is at a very low risk of surface water flooding, as can be seen in the Environmental Agency's flood map within Figure 3 overleaf.

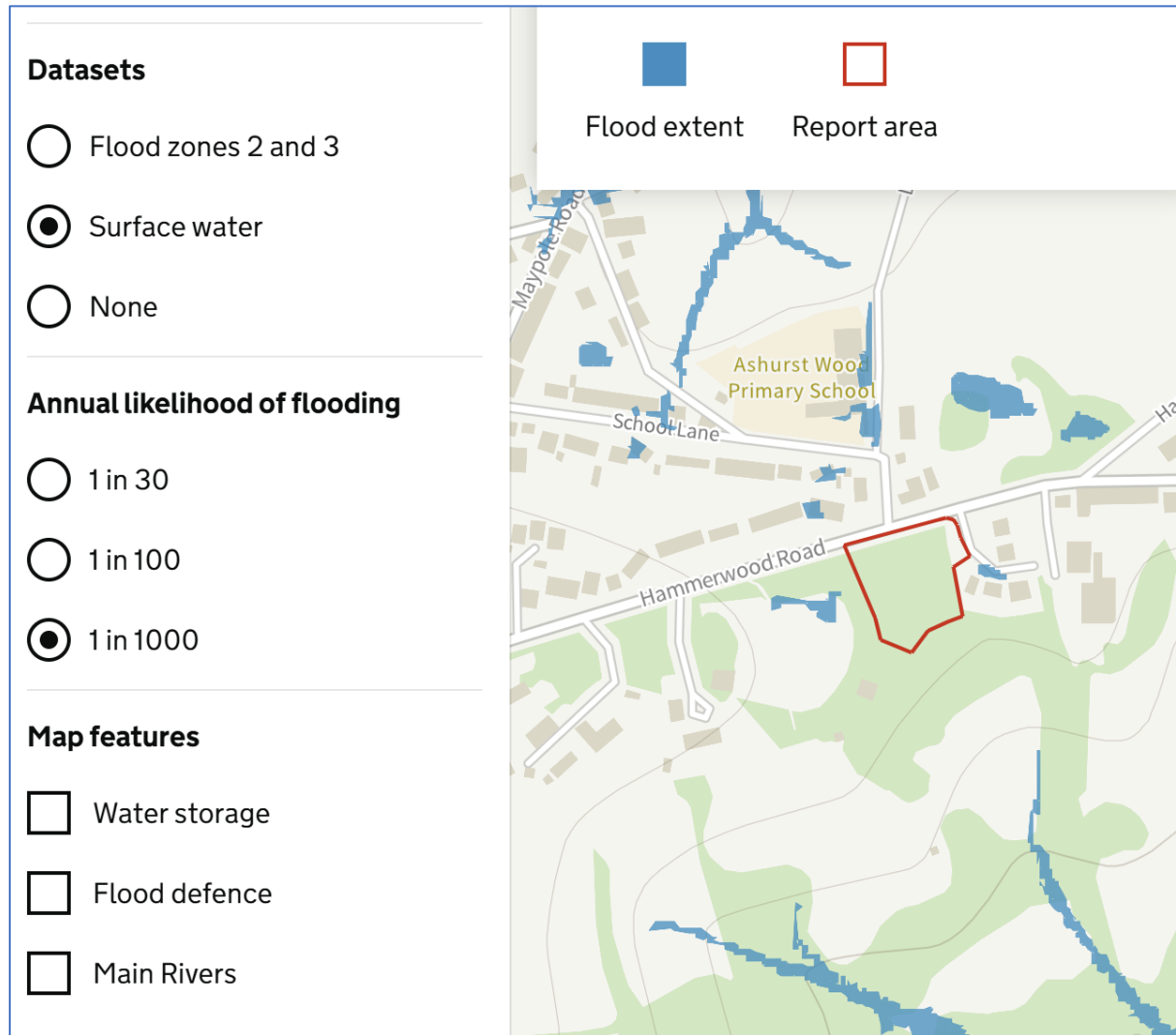


Figure 3 – Environment Agency Flood Map for 1:1000 surface water flooding for the proposed development

The surface water run off produced as a result of these development proposals will be dealt with through the use of Sustainable Urban Drainage Systems, which follow the SuDS hierarchy and therefore will reduce flood risk in the area.

3.3 Flooding from Groundwater

The Environment Agency's website confirms that groundwater flooding is unlikely at this proposed development site.

3.4 Flooding from Sewers

The existing site is greenfield, therefore there have been no incidents of sewer flooding at this site.

3.5 Flooding from Reservoirs, Canals or Other Artificial Sources

The Environment Agency's website, confirms that the site is not at risk of any reservoir flooding.

4. SUSTAINABLE URBAN DRAINAGE SYSTEMS

The total site area is 4684m², and there are no impermeable areas at the site prior to development. Following the development at this site, the impermeable areas have increased to 2549m², prior to any mitigation by using Sustainable Urban Drainage Systems (SuDS). Pre and post development surface water runoff calculations showing the peak flow rate leaving the site, can be found within Appendix B.

Surface water arising from a developed site should, as far as practicable, be managed in a sustainable manner to mimic the surface water flows arising from the site prior to the proposed development, while reducing the flood risk to the site itself and elsewhere, taking climate change into account.

Reducing the rate of surface water discharge from Urban Sites is one of the most effective ways of reducing and managing flood risk. Traditional piped surface water systems work by removing the surface water from our developments as quickly as possible, however this can cause various adverse impacts:

- Increased downstream flooding, and sudden rises in flow rates and water levels in local water courses.
- Reduction in groundwater levels dry weather flows in watercourses.
- Reduce amenity and adversely affect biodiversity due to the surface water runoff containing contaminants such as oil, organic matter and toxic materials.

SuDS are defined as a sequence of management principles and control structures designed to drain surface water in a more sustainable fashion than conventional piped drainage techniques. SuDS should utilise the environmental, ecological and social benefits.

These include:

- Protection and enhancement of water quality – As well as providing on-site attenuation, SuDS treat the water, resulting in an improved quality of water leaving the site. This is achieved when the water passes through the fine soils and the roots of specially selected plants, pollutants washed of the hard landscaping by rainfall will be safely removed before the water reaches the natural water course.
- A sympathetic approach to the environmental setting by providing the opportunities to create habitats for flora and fauna in urban watercourses and open spaces.
- Meeting the amenity and social needs of the local community and residents in the creation of attractive green spaces.

The various types of SuDS include:

Permeable paving	
Soakaways;	
Swales and basins;	
Bioretention/ rain gardens;	
Green roofs and rainwater re-use;	
Infiltration trenches and filter drains	
Ponds and wetlands	

Preferably a combination of these techniques should be used as part of the surface water management train, and it is important for all stakeholders; such as developers, architects, landscape architects and engineers, to work together at the planning stage in order to determine a feasible solution.

The SuDS management train is shown in Figure 4 below, this has been followed when proposing the proposed Sustainable Urban Drainage Systems for this site.

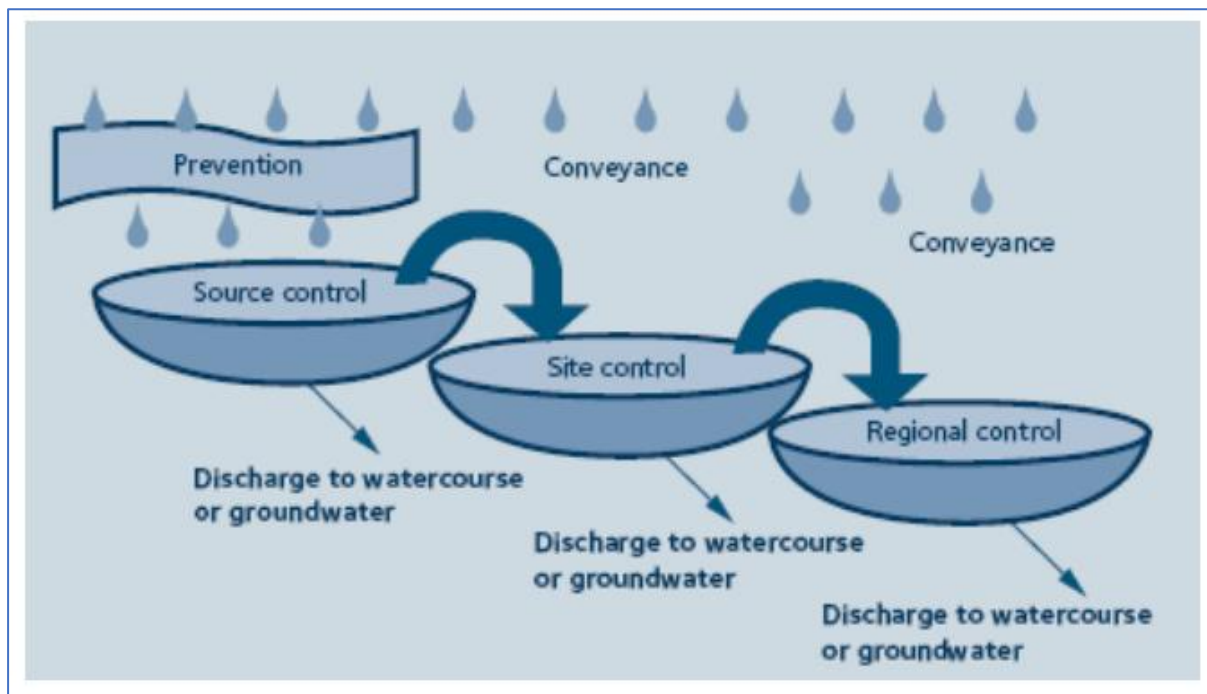


Figure 4 – SuDS Management Train

5. PROPOSED SuDS SOLUTION

NPPF states that any proposed SuDS solution is to be proportionate to the nature and scale of the development.

In order to ensure that the SuDS management train has been followed, one wall mounted rainwater harvesting tank has been proposed for each dwelling, to encourage rainwater re-use. The proposed roofs are pitched, therefore green roofs are not viable, however raingarden planters will be placed, where feasible, at the downpipes of each dwelling, to provide a level of treatment.

All proposed hardstanding areas will be formed of porous surfacing, with filter drains proposed to capture the surface water run off from all sloped areas.

The preferred method of dealing with remaining surface water from the above SuDS components would be to treat and deal with it at source using soakaways, however the BRE365 Percolation Test confirmed that infiltration would not be feasible. The report in its entirety can be located within Appendix C.

Therefore our proposed solution involves collecting the remaining surface water run off and attenuating this in large areas of permeable paving granular subbase and an underground attenuation tank, designed for a 1 in 100 Year +45% Storm Event, with restricted flow leaving the site set to 1.4/s. The proposed SuDS solution is shown in drawing C3655-03 in Appendix A.

The minimum required net storage volume is 154.080m³, and this will be split between the previously mentioned systems. The surface water run off will then conveyed at a restricted rate of 1.4l/s to the nearby Thames Water Foul Water Sewer, via gravity. This can be seen in the SuDS layout and location plan provided in Appendix A, including all cover and invert levels. The surface water run off calculations and hydraulic modelling outputs can be found in Appendix B.

To ensure a feasible solution was proposed, a hydraulic model was built using Infodrainage to simulate rainfall events for a 1 in 100-year storm event +45% Climate Change Allowance. The results of the hydraulic model can be found in Appendix B. The BRE365 Percolation Test Report in its entirety can be found within Appendix C.

We believe the above solution is proportionate to the nature and scale of the development.

5. TIMESCALE AND MAINTENANCE OF DRAINAGE WORKS

All drainage works shall be completed prior to first occupation and there shall be no adoption of any of the drainage works within the site, a management company will be formed and will be responsible to oversee the long-term maintenance of the communal drains. A Management & Maintenance Plan can also be found within Appendix A.

The following outline maintenance strategy sets out recommended timescales for maintenance of the proposed drainage works, in line with CIRIA SuDS Design Guide:

- Regular inspection will comprise the inspection and cleaning of catchment, gutters, filters and tanks to reduce the likelihood of contamination, this is recommended to be carried out every 3 to 6 months.
- The catchpit chamber and flow controls should be checked and cleaned every 3 months for the accumulation of debris/ silt, in order to ensure that there are no blockages.

The following table outlines the maintenance requirements for the rainwater harvesting systems:

Maintenance schedule	Required action	Typical Frequency
Regular maintenance	Inspection of the tank for debris and sediment build-up, inlets/outlets/withdraw devices, overflow areas, pumps, filters	Annually (and following poor performance)
	Cleaning of tank, inlets, outlets, gutters. Withdrawal devices and roof drain filters of silts and other debris	Annually (and following poor performance)
Occasional maintenance	Cleaning and/ or replacement of any filters	Three monthly (or as required)
Remedial actions	Repair of overflow erosion damage or damage to tank	As required
	Pump repairs	As required

Table 1: Operation and maintenance requirement for RWH systems.

The following table outlines the maintenance requirements for raingarden planters:

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Pipe inlets to the raingarden planters should be checked every month and especially after an extreme rainstorm to ensure that there are no blockages.	Monthly
	Periodic inspections & removal of debris or other items that represent blockage risks particularly in vicinity of the inlet to the raingarden planters	Monthly
	Weeding, cutting of plants and removal of any dead plants to ensure that the system works effectively	Every three months
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockages by sediment, algae or other matter: remove and replace surface infiltration medium as necessary.	Annually
Remedial actions	Repair inlets, outlets, overflows	As required
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that the are in good condition and operating as designed	Annually

Table 2: Operation and maintenance requirement for rainwater garden planters

The following table outlines the maintenance requirements for the attenuation tank:

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Inspect and identify any areas that re not operating correctly. If required, take remedial action.	Monthly for 3 months, then annually
	Remove debris from the catchment surface (where it may cause risks to performance).	Monthly
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment, algae or other matter; remove and replace surface infiltration medium as necessary.	Annually
	Remove sediment pre-treatment structures and/or internal forebays.	Annually, or as required
Remedial actions	Repair/rehabilitate inlets, outlet, overflows and vents.	As required
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed	Annually
	Survey inside of tank for sediment build-up and remove if necessary	Every 5 years or as required
	Inspect slit accumulation rates and establish appropriate brushing frequencies	Annually
	Monitor inspection chambers	Annually

Table 3: Operation and maintenance requirements for attenuation storage tanks

The following table outlines the maintenance requirements for the flow control chamber:

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Inspect from surface and identify any areas that are not operating correctly. If required, take remedial action	Monthly for 3 months, then 6 monthly intervals
	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
	Orifice plates within plastic chambers or vortex controls to be jetted from the surface after heavy rainfall events to remove any debris or silt	As required
	Empty catchpits upstream of SuDS features to ensure no debris is passed downstream	3 months or as required
Remedial actions*	In the event of a blockage, a vortex flow control can be removed from the chamber via the lifting cabled located at the access, this will be cleaned at surface level and reinstalled into its original location	As required
	In the event of a blockage, the orifice plate should be jetted from surface, and if blockage is not cleared the orifice plate can be removed by removing fixing bolts. These fixing bolts should be checked and replaced if needed.	As required
Monitoring	Following installation it is important that any extraneous materials i.e. building materials: granular backfill, in-situ pour concrete etc are removed from the unit and the new flow control chamber is fully jetted down	Upon installation
	Inspect/check chamber channel for any debris or silt build-up. Upstream chambers should be checked at the same time as these monitoring works to ensure network is operating at full capacity.	Annually

Table 4: Operation and maintenance requirements for flow control chambers

*All Remedial Works should be carried out by a competent and certified contractor, with no access to chambers or removal of parts to be undertaken by homeowners

If upstream network of flow control chamber is regularly maintained, little maintenance is required within the chamber as there are no moving parts

6. FOUL WATER DRAINAGE

The proposed foul water drainage from the site will discharge via gravity to the southern foul water sewer in Yewhurst Close.

7. CONCLUSIONS

The site is at very low risk from flooding from tidal, fluvial, sewer, groundwater and reservoir flooding.

The proposals will not impact on any known flood flow route or flood storage area.

A suitable Sustainable Urban Drainage systems solution has been proposed which follows the SuDS hierarchy. As requested, SuDS have been incorporated into this design, in the form of:

- A rainwater harvesting tank per dwelling;
- An attenuation tank, sized for a 1:100 +45% Climate Change;
- Large areas of permeable paving, sized for a 1:100 +45% Climate Change.

A foul drainage strategy that conveys the foul water from the site via gravity has also been proposed.

APPENDIX A – DRAWINGS

APPENDIX B – HYDRAULIC MODELLING REPORTS AND SURFACE WATER RUN OFF CALCULATIONS



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Job No. C3655		
Sheet no. 1		
Date 14/11/25		
By M.HAM	Checked	Reviewed

MasterDrain
HY 10.01

Project Land South of Hammerwood Road, Ashurst Wood, RH19 3RX
Title Pre & Post Development Surface Water Runoff Calcs Prior to SuDS

Data:-

Hydrology (FSR):-

Location = HARTFIELD (E.SUSSEX)

Long reference = 547135

M5-60 (mm) = 19.7

r = 0.34

Hyd. area = 7

Hydrograph = Winter

WRAP = 4

Grid reference = TQ4735

SAAR (mm/yr) = 870

Soil = 0.47

Hyd. zone = 7

Area = England & Wales

Site values used in design:-

Total site area = 0.4684 ha

Pre-dev area drained = 0.0000 ha

Imperm runoff factor = 100%

Climate change factor = 45%

Post-dev area drained = 0.2549 ha

Perm runoff factor = 20%

Pre-development

Area to soakaways = 0.0000 ha

Perv. area to SU DS = 0.0000 ha

Post-development

Area to soakaways = 0.0000 ha

Perv. area to SU DS = 0.0000 ha

Area to other SU DS = 0.0000 ha

Pre-dev flow to drain = 0.00 l/s

Area to other SU DS = 0.0000 ha

Post-dev flow to drain = 0.00 l/s

Calculations:-

Revised Post-dev Imperm. area = 0.255 ha

Equiv. Post-dev Imperm. area = 0.255 ha

Equiv. Post-dev Perm. area = 0.043 ha

Total Pre-dev equiv. area ha = 0.094 ha

Total Post-dev equiv. area ha = 0.298 ha

100 yr 6 hour mean intensity = 10.96mm/hr

Results:-

Pre-dev peakflow runoff (l/s) (m^3/s)

R.P.	15	30	60	120	240	360	480	600	Max	CCF	Final	R.P.
1	19.0	12.9	8.2	5.3	3.4	2.6	2.1	1.8	19.0	N/A	19.0	1
30	46.1	30.8	19.7	12.3	7.4	5.5	4.5	3.8	46.1	N/A	46.1	30
100	59.7	40.3	25.9	16.1	9.7	7.1	5.7	4.8	59.7	N/A	59.7	100

Post-dev peakflow runoff (l/s)

R.P.	15	30	60	120	240	360	480	600	Max	CCF	Final	R.P.
1	60.4	41.0	26.1	16.7	10.9	8.2	6.7	5.7	60.4	45	87.5	1
30	146.4	97.9	62.7	39.0	23.6	17.5	14.2	12.0	146.4	45	212.3	30
100	189.5	128.0	82.4	51.2	30.7	22.6	18.2	15.4	189.5	45	274.8	100

100 year 6 hour (x Climate Change Factor) storm gives:-

Pre-dev runoff volume m^3 = 61.6 m^3

Post-dev rainfall volume = 283.7 m^3

Post-dev volume m^3 (excess above SU DS) = 283.7 m^3

100 yr 6 hour mean intensity = 10.96mm/hr

Pre-dev volume to drain at 0 l/s = 0.0 m^3

Post-dev volume to drain at 0 l/s = 0.0 m^3

Post-dev storage volume = 283.7 m^3

Post-dev 5mm imperm volume = 12.7 m^3

Post-dev 5mm perm volume = 10.7 m^3

$Q_{BAR(rural)}$ = 2.916 l/s or 6.226 l/s/ha or 0.003 cumecs - from IoH 124.

The rainfall rates are calculated using the location specific values above in accordance with the Wallingford procedure.



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Sheet no. 2		
Date 14/11/25		
By M.HAM	Checked	Reviewed

Project Land South of Hammerwood Road, Ashurst Wood, RH19 3RX	By M.HAM	Checked	Reviewed
Title Pre & Post Development Surface Water Runoff Calcs Prior to SuDS			

Data summary.

Use the data below for the SUR1 form

Site areas:-

Total site area	=	0.4684 ha ;4684.0 m ² [3A]
Pre-development impermeable area	=	0.0000 ha [3B]
Pre-development permeable area	=	0.4684 ha
Post-development impermeable area	=	0.2549 ha [3C]
Post-development permeable area	=	0.2135 ha

Peak runoff:-

Pre-development 1 year storm (15min)	=	19.0 l/s [6A]
Pre-development 100 year storm (15min)	=	59.7 l/s [6C]
Post-development 1 year storm (15min)	=	60.4 l/s [6B]
Post-development 100 year storm (15min)=		189.50 l/s [6D]

Greenfield runoff:-

$Q_{BAR(rural)} = 2.916 \text{ l/s}$ or 6.226 l/s/ha or 0.003 cumecs - from IoH 124.

Climate change factor:-

CCF = 45%

Volumes:-

Pre-development 100 yr/6hr storm [12A]	=	89.3m ³
Post-development 100 yr/6hr storm (add. volume with no SUDS) [12B]	=	283.7m ³
Post-development 100 yr/6hr storm (add. volume with SUDS)	=	283.7m ³
Post-development add. predicted volume (No SUDS) [12C]	=	194.4m ³

You may also require

Data relating to the infiltration test calculations (if applicable)
Evidence to show runoff reduction (if applicable)
Information on calculation methods (if applicable see next sheet)

Note

Numbers in square brackets relate to the
Nov. 2010 v1.1 / issued 11/02/10 copy of SUR1



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Job No. C3655		
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Date 14/11/25		
By M.HAM	Checked	Reviewed

Project **Land South of Hammerwood Road, Ashurst Wood, RH19 3RX**

Title **Pre & Post Development Surface Water Runoff Calcs Prior to SuDS**

Definitions and methods

Hydrology

The hydrological constants are derived from the Wallingford maps. They are used to calculate location specific rainfall figures.

Site values and factors

Areas of the site should be entered in hectares (10000 m²). If the Pre-development site is a green field, this box is blank.

Climate Change Factor is initially set at 20% - this may be changed as required.

Greenfield runoff is calculated using the method described in loH 124.

Runoff factors

The impermeable runoff factor is initially set at 98%

The permeable runoff factor is initially set at 20%

Note: the CCF and the runoff factors may be changed by the user to suit the development

The areas draining to soakaways and other SUDS are entered in the appropriate box (in hectares)

Calculations

The post-development area is reduced by subtracting the areas that drain to soakaways or other SUDS, to give a revised figure.

All areas are then multiplied by the appropriate runoff factor to give an equivalent area with 100% runoff.

These are then summated.

This gives a total pre-development equivalent area, and a similar figure for the post-development area.

The 'Post-dev volume to drain (no SUDS)' gives the total runoff to drain if no SUDS were used.

Results

The pre- and post-development areas are subjected to 1,30 and 100 year return period storms with a duration of 15 to 600 minutes.

The Revised Post-dev Imperm. area is the area (in ha) that is not going to SUDS x impervious runoff factor.

The runoff rates are calculated for the chosen hydrograph (Summer or Winter) as l/s. Figures in red indicate m³/s

The peak value is measured, multiplied by the CCF and the total maximum rate is shown.

The pre- and post-development volumes for a 100 year / 6 hour storm are calculated from the area under the hydrograph curve.

Post-dev volume (i.e. excess above SUDS) is that volume produced by the drained area that does not go to SUDS.

Qbar(rural) is calculated in accordance with the procedure laid down in loH 124

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Outlets			
Junction	Outlet Name	Outgoing Connection	Outlet Type
Manhole	Outlet	Pipe	Free Discharge
Manhole (1)	Outlet	Pipe (1)	Free Discharge
Manhole (2)	Outlet	Pipe (2)	Free Discharge
Manhole (3)	Outlet	Pipe (3)	Free Discharge
Manhole (4)	Outlet	Pipe (5)	Free Discharge
Manhole (5)	Outlet	Pipe (6)	Free Discharge
Manhole (6)	Outlet	Pipe (7)	Free Discharge
Manhole (7)	Outlet	Pipe (8)	Free Discharge
Manhole (8)	Outlet	Pipe (9)	Free Discharge
Manhole (9)	Outlet	Pipe (11)	Free Discharge
Manhole (10)	Outlet	Pipe (12)	Free Discharge
Manhole (11)	Outlet	Pipe (13)	Free Discharge
Manhole (12)	Outlet	Pipe (14)	Free Discharge
Manhole (13)	Outlet	Pipe (15)	Free Discharge
Manhole (14)	Outlet	Pipe (17)	Free Discharge
Manhole (15)	Outlet	Pipe (18)	Free Discharge
Manhole (16)	Outlet	Pipe (19)	Free Discharge
Manhole (17)	Outlet	Pipe (20)	Free Discharge
Manhole (18)	Outlet	Pipe (21)	Free Discharge
Manhole (19)	Outlet	Pipe (22)	Free Discharge
Manhole (20)	Outlet	Pipe (23)	Free Discharge
Manhole (21)	Outlet	Pipe (24)	Free Discharge
Manhole (22)	Outlet	Pipe (25)	Free Discharge
Manhole (23)	Outlet	Pipe (26)	Free Discharge
Manhole (24)	Outlet	Pipe (27)	Free Discharge
Manhole (25)	Outlet	Pipe (29)	Free Discharge
Manhole (26)	Outlet	Pipe (30)	Free Discharge
Manhole (27)	Outlet	Pipe (31)	Free Discharge
Manhole (28)	Outlet	Pipe (33)	Orifice
	Diameter (m)	0.028	
	Coefficient of Discharge	0.600	
	Invert Level (m)	126.300	
Manhole (29)	Outlet	Pipe (34)	Free Discharge
Manhole (30)	Outlet	Pipe (35)	Free Discharge
Manhole (31)	Outlet	Pipe (36)	Free Discharge

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank

Type : Tank

Dimensions

Exceedance Level (m)	128.000
Depth (m)	1.200
Base Level (m)	126.800
Freeboard (mm)	800
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	8.400

Depth (m)	Area (m²)	Volume (m³)
0.000	70.00	0.000
1.000	70.00	21.000

Advanced

Perimeter	Circular
Length (m)	9.789



Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)	127.500
Depth (m)	1.200
Base Level (m)	126.300
Freeboard (mm)	400
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	15.360

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.003

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank (3)

Type : Tank

Dimensions

Exceedance Level (m)	127.800
Depth (m)	1.200
Base Level (m)	126.600
Freeboard (mm)	600
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	21.600

Depth (m)	Area (m²)	Volume (m³)
0.000	120.00	0.000
1.000	120.00	36.000

Advanced

Perimeter	Circular
Length (m)	22.192



Tank (2)

Type : Tank

Dimensions

Exceedance Level (m)	127.650
Depth (m)	1.200
Base Level (m)	126.450
Freeboard (mm)	500
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	13.440

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.526

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Cellular Storage

Type : Cellular Storage

Dimensions

Exceedance Level (m)	127.750
Depth (m)	0.800
Base Level (m)	126.350
Number of Crates Long	32
Number of Crates Wide	8
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	97.880

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole	127.270 126.920	Diameter / Length: 0.450					Manhole
E:542342.598	0.350						
N:136640.010			{a} Pipe	Pipe	126.920	Diam/Width:150	Not Applicable
Manhole (1)	128.000 126.825	Diameter / Length: 0.450	{1} Pipe	Pipe	126.825	Diam/Width:150	Manhole
E:542345.529	1.175						
N:136628.441			{a} Pipe (1)	Pipe	126.825	Diam/Width:150	Not Applicable
Manhole (2)	127.270 126.890	Diameter / Length: 0.450					Manhole
E:542350.855	0.380						
N:136642.127			{a} Pipe (2)	Pipe	126.890	Diam/Width:150	Not Applicable
Manhole (3)	128.000 126.820	Diameter / Length: 0.450	{1} Pipe (2)	Pipe	126.820	Diam/Width:150	Manhole
E:542352.346	1.180						
N:136635.964			{a} Pipe (3)	Pipe	126.820	Diam/Width:150	Not Applicable
Manhole (4)	128.000 126.450	Diameter / Length: 0.600	{1} Pipe (4)	Pipe	126.450	Diam/Width:150	Manhole
E:542352.068	1.550						
N:136623.850			{a} Pipe (5)	Pipe	126.450	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (5)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542356.427	0.800						
N:136643.474			{a} Pipe (6)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (6)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (6)	Pipe	126.325	Diam/Width:150	Manhole
E:542359.328	1.175						
N:136631.544			{a} Pipe (7)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (7)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542367.229	0.800						
N:136645.971			{a} Pipe (8)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (8)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (8)	Pipe	126.325	Diam/Width:150	Manhole
E:542369.974	1.175						
N:136633.912			{a} Pipe (9)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (9)	127.500 126.250	Diameter / Length: 0.600	{1} Pipe (10)	Pipe	126.250	Diam/Width:150	Manhole
E:542365.757	1.250						
N:136627.141			{a} Pipe (11)	Pipe	126.250	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (10)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542370.040 N:136648.017	0.500						
			{a} Pipe (12)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (11)	127.650 126.465	Diameter / Length: 0.450	{1} Pipe (12)	Pipe	126.465	Diam/Width:150	Manhole
E:542372.448 N:136637.817	1.185						
			{a} Pipe (13)	Pipe	126.465	Diam/Width:150	Not Applicable
Manhole (12)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542379.153 N:136650.176	0.500						
			{a} Pipe (14)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (13)	127.650 126.470	Diameter / Length: 0.450	{1} Pipe (14)	Pipe	126.470	Diam/Width:150	Manhole
E:542381.720 N:136639.115	1.180						
			{a} Pipe (15)	Pipe	126.470	Diam/Width:150	Not Applicable
Manhole (14)	127.650 126.400	Diameter / Length: 0.600	{1} Pipe (16)	Pipe	126.400	Diam/Width:150	Manhole
E:542378.821 N:136630.313	1.250						
			{a} Pipe (17)	Pipe	126.400	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (15)	127.060 126.620	Diameter / Length: 0.450					Manhole
E:542381.828	0.440						
N:136652.188			{a} Pipe (18)	Pipe	126.620	Diam/Width:150	Not Applicable
Manhole (16)	127.440 126.510	Diameter / Length: 0.450	{1} Pipe (18)	Pipe	126.510	Diam/Width:150	Manhole
E:542384.562	0.930						
N:136641.198			{a} Pipe (19)	Pipe	126.510	Diam/Width:150	Not Applicable
Manhole (17)	127.060 126.685	Diameter / Length: 0.450					Manhole
E:542391.937	0.375						
N:136654.668			{a} Pipe (20)	Pipe	126.685	Diam/Width:150	Not Applicable
Manhole (18)	127.440 126.640	Diameter / Length: 0.450	{1} Pipe (20)	Pipe	126.640	Diam/Width:150	Manhole
E:542393.170	0.800						
N:136650.027			{a} Pipe (21)	Pipe	126.640	Diam/Width:150	Not Applicable
Manhole (19)	127.440 126.485	Diameter / Length: 0.450	{1} Pipe (19)	Pipe	126.485	Diam/Width:150	Manhole
E:542383.785	0.955		{2} Pipe (21)	Pipe	126.485	Diam/Width:150	
N:136639.014			{a} Pipe (22)	Pipe	126.485	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (20)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (22)	Pipe	126.395	Diam/Width: 150	Manhole
E:542385.948 N:136630.438	1.105						
			{a} Pipe (23)	Pipe	126.395	Diam/Width: 150	Not Applicable
Manhole (21)	128.000 126.600	Diameter / Length: 0.450					Manhole
E:542361.046 N:136609.815	1.400						
			{a} Pipe (24)	Pipe	126.600	Diam/Width: 150	Not Applicable
Manhole (22)	127.980 126.480	Diameter / Length: 0.600	{1} Pipe (24)	Pipe	126.480	Diam/Width: 150	Manhole
E:542360.222 N:136619.214	1.500						
			{a} Pipe (25)	Pipe	126.480	Diam/Width: 150	Not Applicable
Manhole (23)	128.000 126.820	Diameter / Length: 0.450					Manhole
E:542374.159 N:136605.961	1.180						
			{a} Pipe (26)	Pipe	126.820	Diam/Width: 150	Not Applicable
Manhole (24)	127.800 126.820	Diameter / Length: 0.450					Manhole
E:542380.833 N:136607.513	0.980						
			{a} Pipe (27)	Pipe	126.820	Diam/Width: 150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (25)	127.900 126.550	Diameter / Length: 0.600	{1} Pipe (28)	Pipe	126.550	Diam/Width:150	Manhole
E:542373.880	1.350						
N:136621.422			{a} Pipe (29)	Pipe	126.550	Diam/Width:150	Not Applicable
Manhole (26)	127.800 126.460	Diameter / Length: 0.450					Manhole
E:542389.052	1.340						
N:136622.992			{a} Pipe (30)	Pipe	126.460	Diam/Width:150	Not Applicable
Manhole (27)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (30)	Pipe	126.395	Diam/Width:150	Manhole
E:542386.452	1.105						
N:136628.631			{a} Pipe (31)	Pipe	126.395	Diam/Width:150	Not Applicable
Manhole (28)	128.000 126.300	Diameter / Length: 0.600	{1} Pipe (32)	Pipe	126.300	Diam/Width:150	Manhole
E:542354.522	1.700						
N:136630.536			{a} Pipe (33)	Pipe	126.300	Diam/Width:150	Not Applicable
Manhole (29)	127.270 126.170	Diameter / Length: 0.450	{1} Pipe (33)	Pipe	126.170	Diam/Width:150	Manhole
E:542354.385	1.100						
N:136643.263			{a} Pipe (34)	Pipe	126.170	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (30)	127.270 126.050	Diameter / Length: 0.450	{1} Pipe (34)	Pipe	126.050	Diam/Width: 150	Manhole
E:542351.819 N:136654.517	1.220						
			{a} Pipe (35)	Pipe	126.050	Diam/Width: 150	Not Applicable
Manhole (31)	126.950 125.990	Diameter / Length: 0.300	{1} Pipe (35)	Pipe	125.990	Diam/Width: 150	Manhole
E:542350.017 N:136659.502	0.960						
			{a} Pipe (36)	Pipe	125.990	Diam/Width: 150	Not Applicable
Manhole (32)	126.470 122.510	Diameter / Length: 1.200	{1} Pipe (36)	Pipe	122.510	Diam/Width: 150	Manhole
E:542358.642 N:136668.897	3.960						
							Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Cellular Storage		Time of Concentration	0.047	100	0	100	0.047
Catchment Area (1)	Manhole (21)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (2)	Manhole (22)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (3)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (4)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (5)	Manhole (26)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Manhole		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (7)	Manhole (2)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (8)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (9)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (10)	Manhole (5)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (11)	Manhole (7)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (12)	Tank (1)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (13)	Tank (1)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (14)	Manhole (10)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (15)	Tank (2)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (16)	Manhole (12)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (17)	Tank (2)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (18)	Manhole (15)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (19)	Manhole (16)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (20)	Manhole (17)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (21)	Manhole (18)		Time of Concentration	0.003	100	0	100	0.003
R	Manhole (24)		Time of Concentration	0.009	100	0	100	0.009
R (1)	Manhole (21)		Time of Concentration	0.009	100	0	100	0.009
R (2)	Manhole (23)		Time of Concentration	0.009	100	0	100	0.009
R (3)	Manhole (26)		Time of Concentration	0.009	100	0	100	0.009
R (4)	Manhole (15)		Time of Concentration	0.006	100	0	100	0.006
R (5)	Manhole (12)		Time of Concentration	0.006	100	0	100	0.006
R (6)	Manhole (17)		Time of Concentration	0.005	100	0	100	0.005
R (7)	Manhole (5)		Time of Concentration	0.007	100	0	100	0.007
R (8)	Manhole (10)		Time of Concentration	0.005	100	0	100	0.005
R (9)	Manhole (7)		Time of Concentration	0.007	100	0	100	0.007

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



R (10)	Manhole		Time of Concentration	0.007	100	0	100	0.007
R (11)	Manhole (2)		Time of Concentration	0.007	100	0	100	0.007
TOTAL		0.0		0.224				0.224

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Title: Rainfall Analysis Criteria		
		Kemp House: 124 City Road London EC1V 2NX	



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR	Type: FSR
-----	-----------

Region	England And Wales
M5-60 (mm)	20.0
Ratio R	0.350
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Title: UK and Ireland Rural Runoff Calculator	Kemp House: 124 City Road London EC1V 2NX		


Nimbus
 ENGINEERING CONSULTANTS

ICP SUDS / IH 124

Details

Method	ICP SUDS
Area (ha)	0.224
SAAR (mm)	884.0
Soil	0.47
Region	Region 7
Urban	0.75
Return Period (years)	100

Results

Region	QBAR Rural (L/s)	QBAR Urban (L/s)	Q 100 (years) (L/s)	Q 1 (years) (L/s)	Q 30 (years) (L/s)	Q 100 (years) (L/s)
Region 7	1.4	3.5	7.1	3.0	6.0	7.1

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			



Critical Storm Per Item: Rank By: Max. Flooded Volume

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
Manhole	FSR: 100 years: +45 %: 15 mins: Summer	127.2 70	126.9 20	126.98 0	0.060	5.0	0.010	0.000	4.9	2.169	Flood Risk
Manhole (1)	FSR: 100 years: +45 %: 15 mins: Summer	128.0 00	126.8 25	126.88 2	0.057	4.9	0.009	0.000	4.8	2.167	OK
Manhole (2)	FSR: 100 years: +45 %: 15 mins: Summer	127.2 70	126.8 90	126.95 2	0.062	5.9	0.010	0.000	5.8	2.553	OK
Manhole (3)	FSR: 100 years: +45 %: 15 mins: Summer	128.0 00	126.8 20	126.87 9	0.059	5.8	0.009	0.000	5.7	2.551	OK
Manhole (4)	FSR: 100 years: +45 %: 15 mins: Summer	128.0 00	126.4 50	126.66 2	0.212	14.3	0.060	0.000	14.1	7.025	Surcharged
Manhole (5)	FSR: 100 years: +45 %: 15 mins: Summer	127.2 50	126.4 50	126.66 1	0.211	5.7	0.034	0.000	5.6	2.224	Surcharged
Manhole (6)	FSR: 100 years: +45 %: 15 mins: Summer	127.5 00	126.3 25	126.66 1	0.336	5.6	0.053	0.000	4.7	1.835	Surcharged
Manhole (7)	FSR: 100 years: +45 %: 15 mins: Summer	127.2 50	126.4 50	126.66 1	0.211	5.9	0.034	0.000	5.8	2.296	Surcharged
Manhole (8)	FSR: 100 years: +45 %: 15 mins: Summer	127.5 00	126.3 25	126.66 1	0.336	5.8	0.053	0.000	4.9	1.905	Surcharged
Manhole (9)	FSR: 100 years: +45 %: 15 mins: Summer	127.5 00	126.2 50	126.66 1	0.411	1.2	0.116	0.000	0.3	0.978	Surcharged
Manhole (10)	FSR: 100 years: +45 %: 15 mins: Summer	127.0 60	126.5 60	126.66 2	0.102	4.3	0.016	0.000	4.2	1.746	OK
Manhole (11)	FSR: 100 years: +45 %: 15 mins: Summer	127.6 50	126.4 65	126.66 1	0.196	4.2	0.031	0.000	4.0	1.520	Surcharged
Manhole (12)	FSR: 100 years: +45 %: 15 mins: Summer	127.0 60	126.5 60	126.66 1	0.101	4.6	0.016	0.000	4.5	1.877	OK
Manhole (13)	FSR: 100 years: +45 %: 15 mins: Summer	127.6 50	126.4 70	126.66 1	0.191	4.5	0.030	0.000	4.3	1.658	Surcharged
Manhole (14)	FSR: 100 years: +45 %: 15 mins: Summer	127.6 50	126.4 00	126.66 1	0.261	9.8	0.074	0.000	9.2	2.671	Surcharged
Manhole (15)	FSR: 100 years: +45 %: 15 mins: Summer	127.0 60	126.6 20	126.67 2	0.052	4.6	0.008	0.000	4.5	1.958	OK
Manhole (16)	FSR: 100 years: +45 %: 15 mins: Summer	127.4 40	126.5 10	126.66 1	0.151	6.7	0.024	0.000	6.5	2.729	Surcharged
Manhole (17)	FSR: 100 years: +45 %: 15 mins: Summer	127.0 60	126.6 85	126.74 3	0.058	4.6	0.009	0.000	4.5	1.974	OK
Manhole (18)	FSR: 100 years: +45 %: 15 mins: Summer	127.4 40	126.6 40	126.70 0	0.060	6.3	0.009	0.000	6.2	2.758	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate				Date: 13/11/2025										
				Designed by: M.HAM		Checked by:						Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase				Kemp House: 124 City Road London EC1V 2NX										

Manhole (19)	FSR: 100 years: +45 %: 15 mins: Summer	127.4 40	126.4 85	126.66 1	0.176	12.6	0.028	0.000	12.2	5.207	Surcharged
Manhole (20)	FSR: 100 years: +45 %: 15 mins: Summer	127.5 00	126.3 95	126.66 1	0.266	12.2	0.042	0.000	11.6	4.898	Surcharged
Manhole (21)	FSR: 100 years: +45 %: 15 mins: Summer	128.0 00	126.6 00	126.67 1	0.071	8.2	0.011	0.000	8.0	3.468	OK
Manhole (22)	FSR: 100 years: +45 %: 15 mins: Summer	127.9 80	126.4 80	126.66 1	0.181	11.4	0.051	0.000	11.4	4.746	Surcharged
Manhole (23)	FSR: 100 years: +45 %: 15 mins: Summer	128.0 00	126.8 20	126.84 9	0.029	5.2	0.005	0.000	5.1	2.248	OK
Manhole (24)	FSR: 100 years: +45 %: 15 mins: Summer	127.8 00	126.8 20	126.84 9	0.029	5.1	0.005	0.000	5.0	2.200	OK
Manhole (25)	FSR: 100 years: +45 %: 15 mins: Summer	127.9 00	126.5 50	126.66 2	0.112	12.9	0.032	0.000	12.6	7.281	OK
Manhole (26)	FSR: 100 years: +45 %: 15 mins: Summer	127.8 00	126.4 60	126.66 1	0.201	7.6	0.032	0.000	7.4	3.048	Surcharged
Manhole (27)	FSR: 100 years: +45 %: 15 mins: Summer	127.5 00	126.3 95	126.66 1	0.266	7.4	0.042	0.000	6.5	2.744	Surcharged
Manhole (28)	FSR: 100 years: +45 %: 15 mins: Summer	128.0 00	126.3 00	126.66 1	0.361	1.5	0.102	0.000	1.0	1.217	Surcharged
Manhole (29)	FSR: 100 years: +45 %: 15 mins: Summer	127.2 70	126.1 70	126.19 4	0.024	1.0	0.004	0.000	1.0	1.160	OK
Manhole (30)	FSR: 100 years: +45 %: 15 mins: Summer	127.2 70	126.0 50	126.07 5	0.025	1.0	0.004	0.000	1.0	1.131	OK
Manhole (31)	FSR: 100 years: +45 %: 15 mins: Summer	126.9 50	125.9 90	126.00 1	0.011	1.0	0.001	0.000	1.0	1.118	OK
Manhole (32)	FSR: 100 years: +45 %: 15 mins: Summer	126.4 70	122.5 10	122.52 1	0.011	1.0	0.000	0.000	1.0	1.118	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025			
		Designed by: M.HAM	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Cellular Storage	FSR: 100 years: +45 %: 720 mins: Winter	127.047	127.047	0.697	0.697	6.6	84.765	0.000	0.000	1.4	97.257	595	13.399
Tank	FSR: 100 years: +45 %: 720 mins: Winter	127.047	127.047	0.247	0.247	1.4	5.189	0.000	0.000	1.4	23.558	48	38.227
Tank (1)	FSR: 100 years: +45 %: 720 mins: Winter	127.047	127.047	0.747	0.747	1.3	14.344	0.000	0.000	0.5	14.232	266	6.613
Tank (3)	FSR: 100 years: +45 %: 720 mins: Winter	127.047	127.047	0.447	0.447	1.8	16.096	0.000	0.000	1.5	23.176	144	25.484
Tank (2)	FSR: 100 years: +45 %: 720 mins: Winter	127.047	127.047	0.597	0.597	1.1	11.464	0.000	0.000	0.4	13.342	341	14.702

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Status
OK
OK
OK
OK
OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
Manhole	Outlet	Pipe	Free Discharge
Manhole (1)	Outlet	Pipe (1)	Free Discharge
Manhole (2)	Outlet	Pipe (2)	Free Discharge
Manhole (3)	Outlet	Pipe (3)	Free Discharge
Manhole (4)	Outlet	Pipe (5)	Free Discharge
Manhole (5)	Outlet	Pipe (6)	Free Discharge
Manhole (6)	Outlet	Pipe (7)	Free Discharge
Manhole (7)	Outlet	Pipe (8)	Free Discharge
Manhole (8)	Outlet	Pipe (9)	Free Discharge
Manhole (9)	Outlet	Pipe (11)	Free Discharge
Manhole (10)	Outlet	Pipe (12)	Free Discharge
Manhole (11)	Outlet	Pipe (13)	Free Discharge
Manhole (12)	Outlet	Pipe (14)	Free Discharge
Manhole (13)	Outlet	Pipe (15)	Free Discharge
Manhole (14)	Outlet	Pipe (17)	Free Discharge
Manhole (15)	Outlet	Pipe (18)	Free Discharge
Manhole (16)	Outlet	Pipe (19)	Free Discharge
Manhole (17)	Outlet	Pipe (20)	Free Discharge
Manhole (18)	Outlet	Pipe (21)	Free Discharge
Manhole (19)	Outlet	Pipe (22)	Free Discharge
Manhole (20)	Outlet	Pipe (23)	Free Discharge
Manhole (21)	Outlet	Pipe (24)	Free Discharge
Manhole (22)	Outlet	Pipe (25)	Free Discharge
Manhole (23)	Outlet	Pipe (26)	Free Discharge
Manhole (24)	Outlet	Pipe (27)	Free Discharge
Manhole (25)	Outlet	Pipe (29)	Free Discharge
Manhole (26)	Outlet	Pipe (30)	Free Discharge
Manhole (27)	Outlet	Pipe (31)	Free Discharge
Manhole (28)	Outlet	Pipe (33)	Orifice
	Diameter (m)	0.028	
	Coefficient of Discharge	0.600	
	Invert Level (m)	126.300	
Manhole (29)	Outlet	Pipe (34)	Free Discharge
Manhole (30)	Outlet	Pipe (35)	Free Discharge
Manhole (31)	Outlet	Pipe (36)	Free Discharge

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank

Type : Tank

Dimensions

Exceedance Level (m)	128.000
Depth (m)	1.200
Base Level (m)	126.800
Freeboard (mm)	800
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	8.400

Depth (m)	Area (m²)	Volume (m³)
0.000	70.00	0.000
1.000	70.00	21.000

Advanced

Perimeter	Circular
Length (m)	9.789



Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)	127.500
Depth (m)	1.200
Base Level (m)	126.300
Freeboard (mm)	400
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	15.360

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.003

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank (3)

Type : Tank

Dimensions

Exceedance Level (m)	127.800
Depth (m)	1.200
Base Level (m)	126.600
Freeboard (mm)	600
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	21.600

Depth (m)	Area (m²)	Volume (m³)
0.000	120.00	0.000
1.000	120.00	36.000

Advanced

Perimeter	Circular
Length (m)	22.192



Tank (2)

Type : Tank

Dimensions

Exceedance Level (m)	127.650
Depth (m)	1.200
Base Level (m)	126.450
Freeboard (mm)	500
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	13.440

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.526

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
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Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Cellular Storage

Type : Cellular Storage

Dimensions	
Exceedance Level (m)	127.750
Depth (m)	0.800
Base Level (m)	126.350
Number of Crates Long	32
Number of Crates Wide	8
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	97.880

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole	127.270 126.920	Diameter / Length: 0.450					Manhole
E:542342.598	0.350						
N:136640.010			{a} Pipe	Pipe	126.920	Diam/Width:150	Not Applicable
Manhole (1)	128.000 126.825	Diameter / Length: 0.450	{1} Pipe	Pipe	126.825	Diam/Width:150	Manhole
E:542345.529	1.175						
N:136628.441			{a} Pipe (1)	Pipe	126.825	Diam/Width:150	Not Applicable
Manhole (2)	127.270 126.890	Diameter / Length: 0.450					Manhole
E:542350.855	0.380						
N:136642.127			{a} Pipe (2)	Pipe	126.890	Diam/Width:150	Not Applicable
Manhole (3)	128.000 126.820	Diameter / Length: 0.450	{1} Pipe (2)	Pipe	126.820	Diam/Width:150	Manhole
E:542352.346	1.180						
N:136635.964			{a} Pipe (3)	Pipe	126.820	Diam/Width:150	Not Applicable
Manhole (4)	128.000 126.450	Diameter / Length: 0.600	{1} Pipe (4)	Pipe	126.450	Diam/Width:150	Manhole
E:542352.068	1.550						
N:136623.850			{a} Pipe (5)	Pipe	126.450	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (5)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542356.427	0.800						
N:136643.474			{a} Pipe (6)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (6)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (6)	Pipe	126.325	Diam/Width:150	Manhole
E:542359.328	1.175						
N:136631.544			{a} Pipe (7)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (7)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542367.229	0.800						
N:136645.971			{a} Pipe (8)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (8)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (8)	Pipe	126.325	Diam/Width:150	Manhole
E:542369.974	1.175						
N:136633.912			{a} Pipe (9)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (9)	127.500 126.250	Diameter / Length: 0.600	{1} Pipe (10)	Pipe	126.250	Diam/Width:150	Manhole
E:542365.757	1.250						
N:136627.141			{a} Pipe (11)	Pipe	126.250	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (10)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542370.040	0.500						
N:136648.017			{a} Pipe (12)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (11)	127.650 126.465	Diameter / Length: 0.450	{1} Pipe (12)	Pipe	126.465	Diam/Width:150	Manhole
E:542372.448	1.185						
N:136637.817			{a} Pipe (13)	Pipe	126.465	Diam/Width:150	Not Applicable
Manhole (12)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542379.153	0.500						
N:136650.176			{a} Pipe (14)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (13)	127.650 126.470	Diameter / Length: 0.450	{1} Pipe (14)	Pipe	126.470	Diam/Width:150	Manhole
E:542381.720	1.180						
N:136639.115			{a} Pipe (15)	Pipe	126.470	Diam/Width:150	Not Applicable
Manhole (14)	127.650 126.400	Diameter / Length: 0.600	{1} Pipe (16)	Pipe	126.400	Diam/Width:150	Manhole
E:542378.821	1.250						
N:136630.313			{a} Pipe (17)	Pipe	126.400	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (15)	127.060 126.620	Diameter / Length: 0.450					Manhole
E:542381.828	0.440						
N:136652.188			{a} Pipe (18)	Pipe	126.620	Diam/Width:150	Not Applicable
Manhole (16)	127.440 126.510	Diameter / Length: 0.450	{1} Pipe (18)	Pipe	126.510	Diam/Width:150	Manhole
E:542384.562	0.930						
N:136641.198			{a} Pipe (19)	Pipe	126.510	Diam/Width:150	Not Applicable
Manhole (17)	127.060 126.685	Diameter / Length: 0.450					Manhole
E:542391.937	0.375						
N:136654.668			{a} Pipe (20)	Pipe	126.685	Diam/Width:150	Not Applicable
Manhole (18)	127.440 126.640	Diameter / Length: 0.450	{1} Pipe (20)	Pipe	126.640	Diam/Width:150	Manhole
E:542393.170	0.800						
N:136650.027			{a} Pipe (21)	Pipe	126.640	Diam/Width:150	Not Applicable
Manhole (19)	127.440 126.485	Diameter / Length: 0.450	{1} Pipe (19)	Pipe	126.485	Diam/Width:150	Manhole
E:542383.785	0.955		{2} Pipe (21)	Pipe	126.485	Diam/Width:150	
N:136639.014			{a} Pipe (22)	Pipe	126.485	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (20)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (22)	Pipe	126.395	Diam/Width:150	Manhole
E:542385.948 N:136630.438	1.105						
			{a} Pipe (23)	Pipe	126.395	Diam/Width:150	Not Applicable
Manhole (21)	128.000 126.600	Diameter / Length: 0.450					Manhole
E:542361.046 N:136609.815	1.400						
			{a} Pipe (24)	Pipe	126.600	Diam/Width:150	Not Applicable
Manhole (22)	127.980 126.480	Diameter / Length: 0.600	{1} Pipe (24)	Pipe	126.480	Diam/Width:150	Manhole
E:542360.222 N:136619.214	1.500						
			{a} Pipe (25)	Pipe	126.480	Diam/Width:150	Not Applicable
Manhole (23)	128.000 126.820	Diameter / Length: 0.450					Manhole
E:542374.159 N:136605.961	1.180						
			{a} Pipe (26)	Pipe	126.820	Diam/Width:150	Not Applicable
Manhole (24)	127.800 126.820	Diameter / Length: 0.450					Manhole
E:542380.833 N:136607.513	0.980						
			{a} Pipe (27)	Pipe	126.820	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (25)	127.900 126.550	Diameter / Length: 0.600	{1} Pipe (28)	Pipe	126.550	Diam/Width:150	Manhole
E:542373.880	1.350						
N:136621.422			{a} Pipe (29)	Pipe	126.550	Diam/Width:150	Not Applicable
Manhole (26)	127.800 126.460	Diameter / Length: 0.450					Manhole
E:542389.052	1.340						
N:136622.992			{a} Pipe (30)	Pipe	126.460	Diam/Width:150	Not Applicable
Manhole (27)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (30)	Pipe	126.395	Diam/Width:150	Manhole
E:542386.452	1.105						
N:136628.631			{a} Pipe (31)	Pipe	126.395	Diam/Width:150	Not Applicable
Manhole (28)	128.000 126.300	Diameter / Length: 0.600	{1} Pipe (32)	Pipe	126.300	Diam/Width:150	Manhole
E:542354.522	1.700						
N:136630.536			{a} Pipe (33)	Pipe	126.300	Diam/Width:150	Not Applicable
Manhole (29)	127.270 126.170	Diameter / Length: 0.450	{1} Pipe (33)	Pipe	126.170	Diam/Width:150	Manhole
E:542354.385	1.100						
N:136643.263			{a} Pipe (34)	Pipe	126.170	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Manhole Schedule Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (30)	127.270 126.050	Diameter / Length: 0.450	{1} Pipe (34)	Pipe	126.050	Diam/Width: 150	Manhole
E:542351.819 N:136654.517	1.220						
			{a} Pipe (35)	Pipe	126.050	Diam/Width: 150	Not Applicable
Manhole (31)	126.950 125.990	Diameter / Length: 0.300	{1} Pipe (35)	Pipe	125.990	Diam/Width: 150	Manhole
E:542350.017 N:136659.502	0.960						
			{a} Pipe (36)	Pipe	125.990	Diam/Width: 150	Not Applicable
Manhole (32)	126.470 122.510	Diameter / Length: 1.200	{1} Pipe (36)	Pipe	122.510	Diam/Width: 150	Manhole
E:542358.642 N:136668.897	3.960						
							Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Cellular Storage		Time of Concentration	0.047	100	0	100	0.047
Catchment Area (1)	Manhole (21)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (2)	Manhole (22)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (3)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (4)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (5)	Manhole (26)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Manhole		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (7)	Manhole (2)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (8)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (9)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (10)	Manhole (5)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (11)	Manhole (7)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (12)	Tank (1)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (13)	Tank (1)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (14)	Manhole (10)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (15)	Tank (2)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (16)	Manhole (12)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (17)	Tank (2)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (18)	Manhole (15)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (19)	Manhole (16)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (20)	Manhole (17)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (21)	Manhole (18)		Time of Concentration	0.003	100	0	100	0.003
R	Manhole (24)		Time of Concentration	0.009	100	0	100	0.009
R (1)	Manhole (21)		Time of Concentration	0.009	100	0	100	0.009
R (2)	Manhole (23)		Time of Concentration	0.009	100	0	100	0.009
R (3)	Manhole (26)		Time of Concentration	0.009	100	0	100	0.009
R (4)	Manhole (15)		Time of Concentration	0.006	100	0	100	0.006
R (5)	Manhole (12)		Time of Concentration	0.006	100	0	100	0.006
R (6)	Manhole (17)		Time of Concentration	0.005	100	0	100	0.005
R (7)	Manhole (5)		Time of Concentration	0.007	100	0	100	0.007
R (8)	Manhole (10)		Time of Concentration	0.005	100	0	100	0.005
R (9)	Manhole (7)		Time of Concentration	0.007	100	0	100	0.007

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate				Date: 13/11/2025				
Report Details: Type: Inflow Summary Storm Phase: Phase				Designed by: M.HAM	Checked by:	Approved By:		
				Kemp House: 124 City Road London EC1V 2NX				

R (10)	Manhole		Time of Concentration	0.007	100	0	100	0.007
R (11)	Manhole (2)		Time of Concentration	0.007	100	0	100	0.007
TOTAL		0.0		0.224				0.224

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Title: Rainfall Analysis Criteria	Kemp House: 124 City Road London EC1V 2NX		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	20.0
Ratio R	0.350
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Title: UK and Ireland Rural Runoff Calculator	Kemp House: 124 City Road London EC1V 2NX		


Nimbus
 ENGINEERING CONSULTANTS

ICP SUDS / IH 124

Details

Method	ICP SUDS
Area (ha)	0.224
SAAR (mm)	884.0
Soil	0.47
Region	Region 7
Urban	0.75
Return Period (years)	100

Results

Region	QBAR Rural (L/s)	QBAR Urban (L/s)	Q 100 (years) (L/s)	Q 1 (years) (L/s)	Q 30 (years) (L/s)	Q 100 (years) (L/s)
Region 7	1.4	3.5	7.1	3.0	6.0	7.1

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole: Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:
		Approved By:	
		Kemp House: 124 City Road London EC1V 2NX	



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
FSR: 100 years: +45 %: 15 mins: Summer	127.2 70	126.9 20	126.98 0	0.060	5.0	0.010	0.000	4.9	2.169	Flood Risk
FSR: 100 years: +45 %: 15 mins: Winter	127.2 70	126.9 20	126.97 8	0.058	4.7	0.009	0.000	4.6	2.163	Flood Risk
FSR: 100 years: +45 %: 30 mins: Summer	127.2 70	126.9 20	126.96 9	0.049	3.4	0.008	0.000	3.4	2.914	OK
FSR: 100 years: +45 %: 30 mins: Winter	127.2 70	126.9 20	126.96 7	0.047	3.2	0.007	0.000	3.2	2.914	OK
FSR: 100 years: +45 %: 60 mins: Summer	127.2 70	126.9 20	126.96 6	0.046	3.0	0.007	0.000	3.0	3.725	OK
FSR: 100 years: +45 %: 60 mins: Winter	127.2 70	126.9 20	126.96 1	0.041	2.4	0.007	0.000	2.4	3.743	OK
FSR: 100 years: +45 %: 120 mins: Summer	127.2 70	126.9 20	126.95 9	0.039	2.2	0.006	0.000	2.2	4.619	OK
FSR: 100 years: +45 %: 120 mins: Winter	127.2 70	126.9 20	126.95 3	0.033	1.6	0.005	0.000	1.6	4.607	OK
FSR: 100 years: +45 %: 180 mins: Summer	127.2 70	126.9 20	126.95 6	0.036	1.7	0.006	0.000	1.7	5.135	OK
FSR: 100 years: +45 %: 180 mins: Winter	127.2 70	126.9 20	126.95 7	0.037	1.2	0.006	0.000	1.2	5.153	OK
FSR: 100 years: +45 %: 240 mins: Summer	127.2 70	126.9 20	126.98 1	0.061	1.4	0.010	0.000	1.4	5.488	Flood Risk
FSR: 100 years: +45 %: 240 mins: Winter	127.2 70	126.9 20	126.98 2	0.062	1.0	0.010	0.000	1.0	5.501	Flood Risk
FSR: 100 years: +45 %: 360 mins: Summer	127.2 70	126.9 20	127.01 3	0.093	1.1	0.015	0.000	1.1	6.089	Flood Risk
FSR: 100 years: +45 %: 360 mins: Winter	127.2 70	126.9 20	127.01 5	0.095	0.7	0.015	0.000	0.7	6.041	Flood Risk
FSR: 100 years: +45 %: 480 mins: Summer	127.2 70	126.9 20	127.03 0	0.110	0.9	0.018	0.000	0.9	6.497	Flood Risk
FSR: 100 years: +45 %: 480 mins: Winter	127.2 70	126.9 20	127.03 3	0.113	0.6	0.018	0.000	0.6	6.498	Flood Risk
FSR: 100 years: +45 %: 600 mins: Summer	127.2 70	126.9 20	127.03 9	0.119	0.8	0.019	0.000	0.8	6.840	Flood Risk
FSR: 100 years: +45 %: 600 mins: Winter	127.2 70	126.9 20	127.04 3	0.123	0.5	0.019	0.000	0.5	6.810	Flood Risk
FSR: 100 years: +45 %: 720 mins: Summer	127.2 70	126.9 20	127.04 3	0.123	0.6	0.020	0.000	0.7	7.146	Flood Risk
FSR: 100 years: +45 %: 720 mins: Winter	127.2 70	126.9 20	127.04 7	0.127	0.4	0.020	0.000	0.4	7.098	Flood Risk

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (1): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:		Approved By:
		Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	128.000	126.825	126.882	0.057	4.9	0.009	0.000	4.8	2.167	OK
FSR: 100 years: +45 %: 15 mins: Winter	128.000	126.825	126.879	0.054	4.6	0.009	0.000	4.5	2.161	OK
FSR: 100 years: +45 %: 30 mins: Summer	128.000	126.825	126.871	0.046	3.4	0.007	0.000	3.4	2.913	OK
FSR: 100 years: +45 %: 30 mins: Winter	128.000	126.825	126.869	0.044	3.2	0.007	0.000	3.2	2.913	OK
FSR: 100 years: +45 %: 60 mins: Summer	128.000	126.825	126.867	0.042	3.0	0.007	0.000	3.0	3.723	OK
FSR: 100 years: +45 %: 60 mins: Winter	128.000	126.825	126.863	0.038	2.4	0.006	0.000	2.4	3.741	OK
FSR: 100 years: +45 %: 120 mins: Summer	128.000	126.825	126.915	0.090	2.2	0.014	0.000	2.2	4.554	OK
FSR: 100 years: +45 %: 120 mins: Winter	128.000	126.825	126.915	0.090	1.6	0.014	0.000	1.6	4.542	OK
FSR: 100 years: +45 %: 180 mins: Summer	128.000	126.825	126.956	0.131	1.7	0.021	0.000	1.7	5.044	OK
FSR: 100 years: +45 %: 180 mins: Winter	128.000	126.825	126.957	0.132	1.2	0.021	0.000	1.2	5.062	OK
FSR: 100 years: +45 %: 240 mins: Summer	128.000	126.825	126.981	0.156	1.4	0.025	0.000	1.4	5.391	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	128.000	126.825	126.982	0.157	1.0	0.025	0.000	1.0	5.403	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	128.000	126.825	127.013	0.188	1.1	0.030	0.000	1.1	5.998	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	128.000	126.825	127.015	0.190	0.7	0.030	0.000	0.7	5.950	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	128.000	126.825	127.030	0.205	0.9	0.033	0.000	0.9	6.430	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	128.000	126.825	127.033	0.208	0.6	0.033	0.000	0.6	6.430	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	128.000	126.825	127.039	0.214	0.8	0.034	0.000	0.7	6.804	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	128.000	126.825	127.043	0.218	0.5	0.035	0.000	0.5	6.775	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	128.000	126.825	127.043	0.218	0.7	0.035	0.000	0.6	7.144	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	128.000	126.825	127.047	0.222	0.4	0.035	0.000	0.4	7.097	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (2): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.2 70	126.8 90	126.95 2	0.062	5.9	0.010	0.000	5.8	2.553	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.2 70	126.8 90	126.95 0	0.060	5.5	0.010	0.000	5.4	2.553	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.2 70	126.8 90	126.94 0	0.050	4.0	0.008	0.000	4.0	3.436	OK
FSR: 100 years: +45 %: 30 mins: Winter	127.2 70	126.8 90	126.93 8	0.048	3.7	0.008	0.000	3.7	3.424	OK
FSR: 100 years: +45 %: 60 mins: Summer	127.2 70	126.8 90	126.93 7	0.047	3.5	0.007	0.000	3.5	4.391	OK
FSR: 100 years: +45 %: 60 mins: Winter	127.2 70	126.8 90	126.93 2	0.042	2.8	0.007	0.000	2.8	4.397	OK
FSR: 100 years: +45 %: 120 mins: Summer	127.2 70	126.8 90	126.93 0	0.040	2.6	0.006	0.000	2.6	5.410	OK
FSR: 100 years: +45 %: 120 mins: Winter	127.2 70	126.8 90	126.92 3	0.033	1.9	0.005	0.000	1.9	5.416	OK
FSR: 100 years: +45 %: 180 mins: Summer	127.2 70	126.8 90	126.95 6	0.066	2.0	0.010	0.000	2.0	6.039	OK
FSR: 100 years: +45 %: 180 mins: Winter	127.2 70	126.8 90	126.95 7	0.067	1.4	0.011	0.000	1.4	6.033	OK
FSR: 100 years: +45 %: 240 mins: Summer	127.2 70	126.8 90	126.98 1	0.091	1.7	0.014	0.000	1.7	6.452	Flood Risk
FSR: 100 years: +45 %: 240 mins: Winter	127.2 70	126.8 90	126.98 2	0.092	1.1	0.015	0.000	1.1	6.428	Flood Risk
FSR: 100 years: +45 %: 360 mins: Summer	127.2 70	126.8 90	127.01 3	0.123	1.3	0.020	0.000	1.3	7.137	Flood Risk
FSR: 100 years: +45 %: 360 mins: Winter	127.2 70	126.8 90	127.01 5	0.125	0.8	0.020	0.000	0.8	7.113	Flood Risk
FSR: 100 years: +45 %: 480 mins: Summer	127.2 70	126.8 90	127.03 0	0.140	1.0	0.022	0.000	1.0	7.619	Flood Risk
FSR: 100 years: +45 %: 480 mins: Winter	127.2 70	126.8 90	127.03 3	0.143	0.7	0.023	0.000	0.7	7.649	Flood Risk
FSR: 100 years: +45 %: 600 mins: Summer	127.2 70	126.8 90	127.03 9	0.149	0.9	0.024	0.000	0.9	8.040	Flood Risk
FSR: 100 years: +45 %: 600 mins: Winter	127.2 70	126.8 90	127.04 3	0.153	0.6	0.024	0.000	0.6	8.082	Flood Risk
FSR: 100 years: +45 %: 720 mins: Summer	127.2 70	126.8 90	127.04 3	0.153	0.8	0.024	0.000	0.8	8.424	Flood Risk
FSR: 100 years: +45 %: 720 mins: Winter	127.2 70	126.8 90	127.04 7	0.157	0.5	0.025	0.000	0.5	8.358	Flood Risk

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (3): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	128.000	126.820	126.879	0.059	5.8	0.009	0.000	5.7	2.551	OK
FSR: 100 years: +45 %: 15 mins: Winter	128.000	126.820	126.877	0.057	5.4	0.009	0.000	5.3	2.552	OK
FSR: 100 years: +45 %: 30 mins: Summer	128.000	126.820	126.868	0.048	4.0	0.008	0.000	4.0	3.435	OK
FSR: 100 years: +45 %: 30 mins: Winter	128.000	126.820	126.866	0.046	3.7	0.007	0.000	3.8	3.423	OK
FSR: 100 years: +45 %: 60 mins: Summer	128.000	126.820	126.864	0.044	3.5	0.007	0.000	3.5	4.389	OK
FSR: 100 years: +45 %: 60 mins: Winter	128.000	126.820	126.859	0.039	2.8	0.006	0.000	2.8	4.395	OK
FSR: 100 years: +45 %: 120 mins: Summer	128.000	126.820	126.915	0.095	2.6	0.015	0.000	2.6	5.340	OK
FSR: 100 years: +45 %: 120 mins: Winter	128.000	126.820	126.915	0.095	1.9	0.015	0.000	1.8	5.346	OK
FSR: 100 years: +45 %: 180 mins: Summer	128.000	126.820	126.956	0.136	2.0	0.022	0.000	2.0	5.943	OK
FSR: 100 years: +45 %: 180 mins: Winter	128.000	126.820	126.957	0.137	1.4	0.022	0.000	1.4	5.936	OK
FSR: 100 years: +45 %: 240 mins: Summer	128.000	126.820	126.981	0.161	1.7	0.026	0.000	1.7	6.349	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	128.000	126.820	126.982	0.162	1.1	0.026	0.000	1.1	6.324	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	128.000	126.820	127.013	0.193	1.3	0.031	0.000	1.3	7.040	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	128.000	126.820	127.015	0.195	0.8	0.031	0.000	0.8	7.016	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	128.000	126.820	127.030	0.210	1.0	0.033	0.000	1.0	7.546	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	128.000	126.820	127.033	0.213	0.7	0.034	0.000	0.7	7.576	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	128.000	126.820	127.039	0.219	0.9	0.035	0.000	0.9	7.998	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	128.000	126.820	127.043	0.223	0.6	0.035	0.000	0.6	8.041	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	128.000	126.820	127.043	0.223	0.8	0.035	0.000	0.8	8.419	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	128.000	126.820	127.047	0.227	0.5	0.036	0.000	0.5	8.354	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (4): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:
		Approved By:	
		Kemp House: 124 City Road London EC1V 2NX	



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
FSR: 100 years: +45 %: 15 mins: Summer	128.000	126.450	126.662	0.212	14.3	0.060	0.000	14.1	7.025	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	128.000	126.450	126.662	0.212	13.6	0.060	0.000	13.4	7.022	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	128.000	126.450	126.747	0.297	13.6	0.084	0.000	13.0	9.478	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	128.000	126.450	126.747	0.297	12.8	0.084	0.000	12.2	9.460	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	128.000	126.450	126.835	0.385	10.3	0.109	0.000	9.8	11.787	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	128.000	126.450	126.835	0.385	8.2	0.109	0.000	7.8	11.794	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	128.000	126.450	126.915	0.465	7.4	0.132	0.000	7.1	13.242	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	128.000	126.450	126.915	0.465	5.3	0.131	0.000	5.1	13.252	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	128.000	126.450	126.956	0.506	5.8	0.143	0.000	5.5	14.487	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	128.000	126.450	126.957	0.507	4.0	0.143	0.000	3.8	14.484	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	128.000	126.450	126.981	0.531	4.8	0.150	0.000	4.6	15.559	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	128.000	126.450	126.982	0.532	3.2	0.151	0.000	3.1	15.546	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	128.000	126.450	127.013	0.563	3.6	0.159	0.000	3.5	17.673	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	128.000	126.450	127.015	0.565	2.4	0.160	0.000	2.3	17.593	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	128.000	126.450	127.030	0.580	3.0	0.164	0.000	2.9	19.570	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	128.000	126.450	127.033	0.583	1.9	0.165	0.000	1.8	19.592	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	128.000	126.450	127.039	0.589	2.5	0.167	0.000	2.4	21.417	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	128.000	126.450	127.043	0.593	1.6	0.168	0.000	1.6	21.433	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	128.000	126.450	127.043	0.593	2.2	0.168	0.000	2.1	23.248	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	128.000	126.450	127.047	0.597	1.4	0.169	0.000	1.4	23.121	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (5): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.250	126.450	126.661	0.211	5.7	0.034	0.000	5.6	2.224	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.250	126.450	126.661	0.211	5.3	0.034	0.000	5.3	2.227	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.250	126.450	126.747	0.297	3.8	0.047	0.000	3.8	2.978	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.250	126.450	126.747	0.297	3.6	0.047	0.000	3.5	2.973	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.250	126.450	126.835	0.385	3.4	0.061	0.000	2.9	3.824	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.250	126.450	126.835	0.385	2.7	0.061	0.000	2.4	3.822	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.250	126.450	126.915	0.465	2.5	0.074	0.000	2.2	4.760	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.250	126.450	126.915	0.465	1.8	0.074	0.000	1.6	4.729	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.250	126.450	126.956	0.506	1.9	0.080	0.000	1.7	5.303	Flood Risk
FSR: 100 years: +45 %: 180 mins: Winter	127.250	126.450	126.957	0.507	1.4	0.081	0.000	1.2	5.297	Flood Risk
FSR: 100 years: +45 %: 240 mins: Summer	127.250	126.450	126.981	0.531	1.6	0.084	0.000	1.4	5.717	Flood Risk
FSR: 100 years: +45 %: 240 mins: Winter	127.250	126.450	126.982	0.532	1.1	0.085	0.000	1.0	5.722	Flood Risk
FSR: 100 years: +45 %: 360 mins: Summer	127.250	126.450	127.013	0.563	1.2	0.090	0.000	1.1	6.365	Flood Risk
FSR: 100 years: +45 %: 360 mins: Winter	127.250	126.450	127.015	0.565	0.8	0.090	0.000	0.7	6.365	Flood Risk
FSR: 100 years: +45 %: 480 mins: Summer	127.250	126.450	127.030	0.580	1.0	0.092	0.000	0.9	6.869	Flood Risk
FSR: 100 years: +45 %: 480 mins: Winter	127.250	126.450	127.033	0.583	0.6	0.093	0.000	0.6	6.869	Flood Risk
FSR: 100 years: +45 %: 600 mins: Summer	127.250	126.450	127.039	0.589	0.9	0.094	0.000	0.8	7.315	Flood Risk
FSR: 100 years: +45 %: 600 mins: Winter	127.250	126.450	127.043	0.593	0.5	0.094	0.000	0.5	7.327	Flood Risk
FSR: 100 years: +45 %: 720 mins: Summer	127.250	126.450	127.043	0.593	0.7	0.094	0.000	0.6	7.729	Flood Risk
FSR: 100 years: +45 %: 720 mins: Winter	127.250	126.450	127.047	0.597	0.5	0.095	0.000	0.4	7.622	Flood Risk

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (6): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	127.500	126.325	126.661	0.336	5.6	0.053	0.000	4.7	1.835	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.500	126.325	126.661	0.336	5.3	0.053	0.000	4.4	1.837	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.500	126.325	126.747	0.422	3.8	0.067	0.000	3.1	2.492	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.500	126.325	126.747	0.422	3.5	0.067	0.000	3.0	2.487	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.500	126.325	126.835	0.510	2.9	0.081	0.000	2.5	3.246	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.500	126.325	126.835	0.510	2.4	0.081	0.000	2.0	3.244	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.500	126.325	126.915	0.590	2.2	0.094	0.000	1.9	4.110	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.500	126.325	126.915	0.590	1.6	0.094	0.000	1.4	4.080	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.500	126.325	126.956	0.631	1.7	0.100	0.000	1.5	4.628	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.500	126.325	126.957	0.632	1.2	0.100	0.000	1.0	4.622	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.500	126.325	126.981	0.656	1.4	0.104	0.000	1.2	5.034	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.500	126.325	126.982	0.657	1.0	0.105	0.000	0.8	5.040	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.500	126.325	127.013	0.688	1.1	0.109	0.000	0.9	5.690	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.500	126.325	127.015	0.690	0.7	0.110	0.000	0.6	5.690	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.500	126.325	127.030	0.705	0.9	0.112	0.000	0.8	6.218	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.500	126.325	127.033	0.708	0.6	0.113	0.000	0.5	6.217	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.500	126.325	127.039	0.714	0.8	0.114	0.000	0.7	6.695	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.500	126.325	127.043	0.718	0.5	0.114	0.000	0.4	6.708	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.500	126.325	127.043	0.718	0.6	0.114	0.000	0.6	7.146	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.500	126.325	127.047	0.722	0.4	0.115	0.000	0.4	7.039	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (7): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	127.2 50	126.4 50	126.66 1	0.211	5.9	0.034	0.000	5.8	2.296	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.2 50	126.4 50	126.66 1	0.211	5.5	0.034	0.000	5.4	2.296	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.2 50	126.4 50	126.74 7	0.297	3.9	0.047	0.000	3.9	3.063	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.2 50	126.4 50	126.74 7	0.297	3.7	0.047	0.000	3.6	3.075	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.2 50	126.4 50	126.83 5	0.385	3.5	0.061	0.000	3.0	3.944	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.2 50	126.4 50	126.83 5	0.385	2.8	0.061	0.000	2.4	3.948	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.2 50	126.4 50	126.91 5	0.465	2.6	0.074	0.000	2.3	4.891	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.2 50	126.4 50	126.91 5	0.465	1.8	0.074	0.000	1.6	4.897	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.2 50	126.4 50	126.95 6	0.506	2.0	0.080	0.000	1.8	5.471	Flood Risk
FSR: 100 years: +45 %: 180 mins: Winter	127.2 50	126.4 50	126.95 7	0.507	1.4	0.081	0.000	1.2	5.459	Flood Risk
FSR: 100 years: +45 %: 240 mins: Summer	127.2 50	126.4 50	126.98 1	0.531	1.7	0.084	0.000	1.5	5.891	Flood Risk
FSR: 100 years: +45 %: 240 mins: Winter	127.2 50	126.4 50	126.98 2	0.532	1.1	0.085	0.000	1.0	5.902	Flood Risk
FSR: 100 years: +45 %: 360 mins: Summer	127.2 50	126.4 50	127.01 3	0.563	1.3	0.090	0.000	1.1	6.563	Flood Risk
FSR: 100 years: +45 %: 360 mins: Winter	127.2 50	126.4 50	127.01 5	0.565	0.8	0.090	0.000	0.7	6.575	Flood Risk
FSR: 100 years: +45 %: 480 mins: Summer	127.2 50	126.4 50	127.03 0	0.580	1.0	0.092	0.000	0.9	7.061	Flood Risk
FSR: 100 years: +45 %: 480 mins: Winter	127.2 50	126.4 50	127.03 3	0.583	0.7	0.093	0.000	0.6	7.097	Flood Risk
FSR: 100 years: +45 %: 600 mins: Summer	127.2 50	126.4 50	127.03 9	0.589	0.9	0.094	0.000	0.8	7.525	Flood Risk
FSR: 100 years: +45 %: 600 mins: Winter	127.2 50	126.4 50	127.04 3	0.593	0.6	0.094	0.000	0.5	7.543	Flood Risk
FSR: 100 years: +45 %: 720 mins: Summer	127.2 50	126.4 50	127.04 3	0.593	0.8	0.094	0.000	0.7	7.927	Flood Risk
FSR: 100 years: +45 %: 720 mins: Winter	127.2 50	126.4 50	127.04 7	0.597	0.5	0.095	0.000	0.4	7.850	Flood Risk

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (8): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



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
FSR: 100 years: +45 %: 15 mins: Summer	127.500	126.325	126.661	0.336	5.8	0.053	0.000	4.9	1.905	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.500	126.325	126.661	0.336	5.4	0.053	0.000	4.6	1.907	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.500	126.325	126.747	0.422	3.9	0.067	0.000	3.2	2.576	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.500	126.325	126.747	0.422	3.6	0.067	0.000	3.1	2.588	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.500	126.325	126.835	0.510	3.0	0.081	0.000	2.6	3.367	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.500	126.325	126.835	0.510	2.4	0.081	0.000	2.0	3.369	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.500	126.325	126.915	0.590	2.3	0.094	0.000	2.0	4.242	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.500	126.325	126.915	0.590	1.6	0.094	0.000	1.4	4.248	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.500	126.325	126.956	0.631	1.8	0.100	0.000	1.5	4.796	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.500	126.325	126.957	0.632	1.2	0.100	0.000	1.1	4.784	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.500	126.325	126.981	0.656	1.5	0.104	0.000	1.3	5.208	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.500	126.325	126.982	0.657	1.0	0.105	0.000	0.9	5.220	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.500	126.325	127.013	0.688	1.1	0.109	0.000	1.0	5.888	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.500	126.325	127.015	0.690	0.7	0.110	0.000	0.6	5.900	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.500	126.325	127.030	0.705	0.9	0.112	0.000	0.8	6.410	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.500	126.325	127.033	0.708	0.6	0.113	0.000	0.5	6.445	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.500	126.325	127.039	0.714	0.8	0.114	0.000	0.7	6.905	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.500	126.325	127.043	0.718	0.5	0.114	0.000	0.4	6.924	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.500	126.325	127.043	0.718	0.7	0.114	0.000	0.6	7.344	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.500	126.325	127.047	0.722	0.4	0.115	0.000	0.4	7.267	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (9): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.500	126.250	126.661	0.411	1.2	0.116	0.000	0.3	0.978	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.500	126.250	126.661	0.411	1.5	0.116	0.000	0.3	0.948	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.500	126.250	126.747	0.497	3.4	0.141	0.000	0.7	1.379	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.500	126.250	126.747	0.497	3.2	0.141	0.000	0.8	1.345	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.500	126.250	126.835	0.585	1.5	0.165	0.000	0.9	2.436	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.500	126.250	126.835	0.585	1.3	0.166	0.000	1.1	2.436	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.500	126.250	126.915	0.665	1.8	0.188	0.000	1.5	4.170	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.500	126.250	126.915	0.665	2.0	0.188	0.000	1.0	4.167	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.500	126.250	126.956	0.706	1.6	0.200	0.000	1.2	5.464	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.500	126.250	126.957	0.707	1.8	0.200	0.000	0.9	5.479	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.500	126.250	126.981	0.731	1.6	0.207	0.000	1.0	6.627	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.500	126.250	126.982	0.732	1.3	0.207	0.000	0.8	6.658	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.500	126.250	127.013	0.763	1.2	0.216	0.000	0.8	8.783	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.500	126.250	127.015	0.765	1.3	0.217	0.000	0.7	8.827	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.500	126.250	127.030	0.780	1.0	0.221	0.000	0.8	10.875	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.500	126.250	127.033	0.783	1.2	0.222	0.000	0.6	10.863	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.500	126.250	127.039	0.789	0.9	0.223	0.000	0.7	12.798	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.500	126.250	127.043	0.793	0.9	0.224	0.000	0.5	12.839	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.500	126.250	127.043	0.793	0.8	0.224	0.000	0.6	14.655	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.500	126.250	127.047	0.797	0.9	0.226	0.000	0.5	14.513	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (10): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.0 60	126.5 60	126.66 2	0.102	4.3	0.016	0.000	4.2	1.746	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.0 60	126.5 60	126.66 1	0.101	4.0	0.016	0.000	4.0	1.753	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.0 60	126.5 60	126.74 7	0.187	2.9	0.030	0.000	2.8	2.297	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.0 60	126.5 60	126.74 7	0.187	2.7	0.030	0.000	2.7	2.303	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.0 60	126.5 60	126.83 5	0.275	2.6	0.044	0.000	2.5	2.907	Flood Risk
FSR: 100 years: +45 %: 60 mins: Winter	127.0 60	126.5 60	126.83 5	0.275	2.1	0.044	0.000	2.1	2.925	Flood Risk
FSR: 100 years: +45 %: 120 mins: Summer	127.0 60	126.5 60	126.91 5	0.355	1.9	0.056	0.000	1.6	3.610	Flood Risk
FSR: 100 years: +45 %: 120 mins: Winter	127.0 60	126.5 60	126.91 5	0.355	1.4	0.056	0.000	1.2	3.598	Flood Risk
FSR: 100 years: +45 %: 180 mins: Summer	127.0 60	126.5 60	126.95 6	0.396	1.5	0.063	0.000	1.3	4.016	Flood Risk
FSR: 100 years: +45 %: 180 mins: Winter	127.0 60	126.5 60	126.95 7	0.397	1.0	0.063	0.000	0.9	4.022	Flood Risk
FSR: 100 years: +45 %: 240 mins: Summer	127.0 60	126.5 60	126.98 1	0.421	1.2	0.067	0.000	1.0	4.303	Flood Risk
FSR: 100 years: +45 %: 240 mins: Winter	127.0 60	126.5 60	126.98 2	0.422	0.8	0.067	0.000	0.7	4.321	Flood Risk
FSR: 100 years: +45 %: 360 mins: Summer	127.0 60	126.5 60	127.01 3	0.453	0.9	0.072	0.000	0.8	4.820	Flood Risk
FSR: 100 years: +45 %: 360 mins: Winter	127.0 60	126.5 60	127.01 5	0.455	0.6	0.072	0.000	0.5	4.838	Flood Risk
FSR: 100 years: +45 %: 480 mins: Summer	127.0 60	126.5 60	127.03 0	0.470	0.8	0.075	0.000	0.6	5.222	Flood Risk
FSR: 100 years: +45 %: 480 mins: Winter	127.0 60	126.5 60	127.03 3	0.473	0.5	0.075	0.000	0.4	5.185	Flood Risk
FSR: 100 years: +45 %: 600 mins: Summer	127.0 60	126.5 60	127.03 9	0.479	0.6	0.076	0.000	0.5	5.559	Flood Risk
FSR: 100 years: +45 %: 600 mins: Winter	127.0 60	126.5 60	127.04 3	0.483	0.4	0.077	0.000	0.4	5.506	Flood Risk
FSR: 100 years: +45 %: 720 mins: Summer	127.0 60	126.5 60	127.04 3	0.483	0.6	0.077	0.000	0.5	5.818	Flood Risk
FSR: 100 years: +45 %: 720 mins: Winter	127.0 60	126.5 60	127.04 7	0.487	0.4	0.077	0.000	0.3	5.884	Flood Risk

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (11): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.650	126.465	126.661	0.196	4.2	0.031	0.000	4.0	1.520	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.650	126.465	126.661	0.196	4.0	0.031	0.000	3.8	1.527	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.650	126.465	126.747	0.282	2.8	0.045	0.000	2.7	1.975	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.650	126.465	126.747	0.282	2.7	0.045	0.000	2.5	1.981	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.650	126.465	126.835	0.370	2.5	0.059	0.000	2.1	2.494	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.650	126.465	126.835	0.370	2.1	0.059	0.000	1.7	2.511	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.650	126.465	126.915	0.450	1.6	0.072	0.000	1.3	3.124	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.650	126.465	126.915	0.450	1.2	0.071	0.000	1.0	3.113	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.650	126.465	126.956	0.491	1.3	0.078	0.000	1.0	3.505	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.650	126.465	126.957	0.492	0.9	0.078	0.000	0.7	3.511	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.650	126.465	126.981	0.516	1.0	0.082	0.000	0.9	3.785	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.650	126.465	126.982	0.517	0.7	0.082	0.000	0.6	3.802	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.650	126.465	127.013	0.548	0.8	0.087	0.000	0.6	4.308	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.650	126.465	127.015	0.550	0.5	0.088	0.000	0.4	4.326	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.650	126.465	127.030	0.565	0.6	0.090	0.000	0.5	4.734	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.650	126.465	127.033	0.568	0.4	0.090	0.000	0.4	4.698	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.650	126.465	127.039	0.574	0.5	0.091	0.000	0.4	5.104	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.650	126.465	127.043	0.578	0.4	0.092	0.000	0.3	5.050	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.650	126.465	127.043	0.578	0.5	0.092	0.000	0.4	5.398	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.650	126.465	127.047	0.582	0.3	0.093	0.000	0.3	5.465	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (12): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	127.0 60	126.5 60	126.66 1	0.101	4.6	0.016	0.000	4.5	1.877	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.0 60	126.5 60	126.66 1	0.101	4.3	0.016	0.000	4.2	1.876	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.0 60	126.5 60	126.74 7	0.187	3.1	0.030	0.000	3.0	2.476	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.0 60	126.5 60	126.74 7	0.187	2.9	0.030	0.000	2.8	2.465	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.0 60	126.5 60	126.83 5	0.275	2.8	0.044	0.000	2.7	3.117	Flood Risk
FSR: 100 years: +45 %: 60 mins: Winter	127.0 60	126.5 60	126.83 5	0.275	2.2	0.044	0.000	2.2	3.135	Flood Risk
FSR: 100 years: +45 %: 120 mins: Summer	127.0 60	126.5 60	126.91 5	0.355	2.0	0.056	0.000	1.7	3.868	Flood Risk
FSR: 100 years: +45 %: 120 mins: Winter	127.0 60	126.5 60	126.91 5	0.355	1.4	0.056	0.000	1.3	3.862	Flood Risk
FSR: 100 years: +45 %: 180 mins: Summer	127.0 60	126.5 60	126.95 6	0.396	1.6	0.063	0.000	1.4	4.310	Flood Risk
FSR: 100 years: +45 %: 180 mins: Winter	127.0 60	126.5 60	126.95 7	0.397	1.1	0.063	0.000	0.9	4.322	Flood Risk
FSR: 100 years: +45 %: 240 mins: Summer	127.0 60	126.5 60	126.98 1	0.421	1.3	0.067	0.000	1.1	4.651	Flood Risk
FSR: 100 years: +45 %: 240 mins: Winter	127.0 60	126.5 60	126.98 2	0.422	0.9	0.067	0.000	0.8	4.633	Flood Risk
FSR: 100 years: +45 %: 360 mins: Summer	127.0 60	126.5 60	127.01 3	0.453	1.0	0.072	0.000	0.8	5.168	Flood Risk
FSR: 100 years: +45 %: 360 mins: Winter	127.0 60	126.5 60	127.01 5	0.455	0.6	0.072	0.000	0.6	5.132	Flood Risk
FSR: 100 years: +45 %: 480 mins: Summer	127.0 60	126.5 60	127.03 0	0.470	0.8	0.075	0.000	0.7	5.594	Flood Risk
FSR: 100 years: +45 %: 480 mins: Winter	127.0 60	126.5 60	127.03 3	0.473	0.5	0.075	0.000	0.5	5.623	Flood Risk
FSR: 100 years: +45 %: 600 mins: Summer	127.0 60	126.5 60	127.03 9	0.479	0.7	0.076	0.000	0.6	5.973	Flood Risk
FSR: 100 years: +45 %: 600 mins: Winter	127.0 60	126.5 60	127.04 3	0.483	0.4	0.077	0.000	0.4	5.938	Flood Risk
FSR: 100 years: +45 %: 720 mins: Summer	127.0 60	126.5 60	127.04 3	0.483	0.6	0.077	0.000	0.5	6.286	Flood Risk
FSR: 100 years: +45 %: 720 mins: Winter	127.0 60	126.5 60	127.04 7	0.487	0.4	0.077	0.000	0.3	6.292	Flood Risk

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (13): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.6 50	126.4 70	126.66 1	0.191	4.5	0.030	0.000	4.3	1.658	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.6 50	126.4 70	126.66 1	0.191	4.2	0.030	0.000	4.0	1.656	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.6 50	126.4 70	126.74 7	0.277	3.0	0.044	0.000	2.9	2.161	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.6 50	126.4 70	126.74 7	0.277	2.8	0.044	0.000	2.7	2.149	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.6 50	126.4 70	126.83 5	0.365	2.7	0.058	0.000	2.3	2.709	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.6 50	126.4 70	126.83 5	0.365	2.2	0.058	0.000	1.8	2.727	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.6 50	126.4 70	126.91 5	0.445	1.7	0.071	0.000	1.4	3.388	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.6 50	126.4 70	126.91 5	0.445	1.3	0.071	0.000	1.0	3.383	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.6 50	126.4 70	126.95 6	0.486	1.4	0.077	0.000	1.1	3.805	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.6 50	126.4 70	126.95 7	0.487	0.9	0.077	0.000	0.8	3.816	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.6 50	126.4 70	126.98 1	0.511	1.1	0.081	0.000	0.9	4.139	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.6 50	126.4 70	126.98 2	0.512	0.8	0.081	0.000	0.6	4.120	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.6 50	126.4 70	127.01 3	0.543	0.8	0.086	0.000	0.7	4.662	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.6 50	126.4 70	127.01 5	0.545	0.6	0.087	0.000	0.5	4.626	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.6 50	126.4 70	127.03 0	0.560	0.7	0.089	0.000	0.6	5.112	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.6 50	126.4 70	127.03 3	0.563	0.5	0.090	0.000	0.4	5.141	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.6 50	126.4 70	127.03 9	0.569	0.6	0.091	0.000	0.5	5.523	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.6 50	126.4 70	127.04 3	0.573	0.4	0.091	0.000	0.3	5.488	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.6 50	126.4 70	127.04 3	0.573	0.5	0.091	0.000	0.4	5.872	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.6 50	126.4 70	127.04 7	0.577	0.3	0.092	0.000	0.3	5.879	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (14): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	127.650	126.400	126.661	0.261	9.8	0.074	0.000	9.2	2.671	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.650	126.400	126.661	0.261	9.3	0.074	0.000	8.7	2.646	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.650	126.400	126.747	0.347	6.6	0.098	0.000	6.1	2.621	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.650	126.400	126.747	0.347	6.1	0.098	0.000	5.4	2.602	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.650	126.400	126.835	0.435	2.7	0.123	0.000	2.4	2.882	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.650	126.400	126.835	0.435	3.7	0.123	0.000	3.4	2.934	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.650	126.400	126.915	0.515	1.9	0.146	0.000	1.7	3.913	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.650	126.400	126.915	0.515	1.7	0.146	0.000	1.5	3.937	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.650	126.400	126.956	0.556	1.0	0.157	0.000	1.0	4.872	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.650	126.400	126.957	0.557	1.5	0.158	0.000	1.4	4.913	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.650	126.400	126.981	0.581	0.8	0.164	0.000	0.8	5.780	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.650	126.400	126.982	0.582	1.0	0.165	0.000	1.0	5.797	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.650	126.400	127.013	0.613	0.5	0.174	0.000	0.5	7.607	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.650	126.400	127.015	0.615	0.7	0.174	0.000	0.6	7.599	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.650	126.400	127.030	0.630	0.5	0.178	0.000	0.4	9.418	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.650	126.400	127.033	0.633	0.5	0.179	0.000	0.5	9.408	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.650	126.400	127.039	0.639	0.4	0.181	0.000	0.4	11.146	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.650	126.400	127.043	0.643	0.4	0.182	0.000	0.4	11.056	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.650	126.400	127.043	0.643	0.4	0.182	0.000	0.3	12.813	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.650	126.400	127.047	0.647	0.4	0.183	0.000	0.3	12.914	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (15): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.0 60	126.6 20	126.67 2	0.052	4.6	0.008	0.000	4.5	1.958	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.0 60	126.6 20	126.67 0	0.050	4.3	0.008	0.000	4.3	1.955	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.0 60	126.6 20	126.74 7	0.127	3.1	0.020	0.000	3.0	2.548	OK
FSR: 100 years: +45 %: 30 mins: Winter	127.0 60	126.6 20	126.74 7	0.127	2.9	0.020	0.000	2.9	2.555	OK
FSR: 100 years: +45 %: 60 mins: Summer	127.0 60	126.6 20	126.83 4	0.214	2.8	0.034	0.000	2.7	3.219	Flood Risk
FSR: 100 years: +45 %: 60 mins: Winter	127.0 60	126.6 20	126.83 5	0.215	2.2	0.034	0.000	2.2	3.211	Flood Risk
FSR: 100 years: +45 %: 120 mins: Summer	127.0 60	126.6 20	126.91 5	0.295	2.0	0.047	0.000	2.0	3.962	Flood Risk
FSR: 100 years: +45 %: 120 mins: Winter	127.0 60	126.6 20	126.91 5	0.295	1.5	0.047	0.000	1.3	3.974	Flood Risk
FSR: 100 years: +45 %: 180 mins: Summer	127.0 60	126.6 20	126.95 6	0.336	1.6	0.053	0.000	1.4	4.410	Flood Risk
FSR: 100 years: +45 %: 180 mins: Winter	127.0 60	126.6 20	126.95 7	0.337	1.1	0.054	0.000	1.0	4.410	Flood Risk
FSR: 100 years: +45 %: 240 mins: Summer	127.0 60	126.6 20	126.98 1	0.361	1.3	0.057	0.000	1.1	4.733	Flood Risk
FSR: 100 years: +45 %: 240 mins: Winter	127.0 60	126.6 20	126.98 2	0.362	0.9	0.058	0.000	0.8	4.745	Flood Risk
FSR: 100 years: +45 %: 360 mins: Summer	127.0 60	126.6 20	127.01 3	0.393	1.0	0.063	0.000	0.8	5.268	Flood Risk
FSR: 100 years: +45 %: 360 mins: Winter	127.0 60	126.6 20	127.01 5	0.395	0.6	0.063	0.000	0.6	5.268	Flood Risk
FSR: 100 years: +45 %: 480 mins: Summer	127.0 60	126.6 20	127.03 0	0.410	0.8	0.065	0.000	0.7	5.694	Flood Risk
FSR: 100 years: +45 %: 480 mins: Winter	127.0 60	126.6 20	127.03 3	0.413	0.5	0.066	0.000	0.4	5.717	Flood Risk
FSR: 100 years: +45 %: 600 mins: Summer	127.0 60	126.6 20	127.03 9	0.419	0.7	0.067	0.000	0.6	6.055	Flood Risk
FSR: 100 years: +45 %: 600 mins: Winter	127.0 60	126.6 20	127.04 3	0.423	0.4	0.067	0.000	0.4	6.038	Flood Risk
FSR: 100 years: +45 %: 720 mins: Summer	127.0 60	126.6 20	127.04 3	0.423	0.6	0.067	0.000	0.5	6.392	Flood Risk
FSR: 100 years: +45 %: 720 mins: Winter	127.0 60	126.6 20	127.04 7	0.427	0.4	0.068	0.000	0.3	6.356	Flood Risk

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (16): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	127.4 40	126.5 10	126.66 1	0.151	6.7	0.024	0.000	6.5	2.729	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.4 40	126.5 10	126.66 1	0.151	6.3	0.024	0.000	6.1	2.727	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.4 40	126.5 10	126.74 7	0.237	4.5	0.038	0.000	4.3	3.547	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.4 40	126.5 10	126.74 7	0.237	4.3	0.038	0.000	4.1	3.556	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.4 40	126.5 10	126.83 5	0.325	4.0	0.052	0.000	3.8	4.473	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.4 40	126.5 10	126.83 5	0.325	3.2	0.052	0.000	2.8	4.464	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.4 40	126.5 10	126.91 5	0.405	2.9	0.064	0.000	2.6	5.527	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.4 40	126.5 10	126.91 5	0.405	1.9	0.064	0.000	1.7	5.533	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.4 40	126.5 10	126.95 6	0.446	2.2	0.071	0.000	1.9	6.171	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.4 40	126.5 10	126.95 7	0.447	1.5	0.071	0.000	1.3	6.165	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.4 40	126.5 10	126.98 1	0.471	1.7	0.075	0.000	1.6	6.656	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.4 40	126.5 10	126.98 2	0.472	1.2	0.075	0.000	1.0	6.655	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.4 40	126.5 10	127.01 3	0.503	1.3	0.080	0.000	1.2	7.455	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.4 40	126.5 10	127.01 5	0.505	0.9	0.080	0.000	0.8	7.425	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.4 40	126.5 10	127.03 0	0.520	1.1	0.083	0.000	1.0	8.067	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.4 40	126.5 10	127.03 3	0.523	0.7	0.083	0.000	0.6	8.084	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.4 40	126.5 10	127.03 9	0.529	0.9	0.084	0.000	0.8	8.640	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.4 40	126.5 10	127.04 3	0.533	0.6	0.085	0.000	0.5	8.611	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.4 40	126.5 10	127.04 3	0.533	0.8	0.085	0.000	0.7	9.127	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.4 40	126.5 10	127.04 7	0.537	0.5	0.085	0.000	0.5	9.080	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (17): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.0 60	126.6 85	126.74 3	0.058	4.6	0.009	0.000	4.5	1.974	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.0 60	126.6 85	126.74 1	0.056	4.3	0.009	0.000	4.2	1.971	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.0 60	126.6 85	126.74 7	0.062	3.1	0.010	0.000	3.1	2.594	OK
FSR: 100 years: +45 %: 30 mins: Winter	127.0 60	126.6 85	126.74 7	0.062	2.9	0.010	0.000	2.9	2.596	OK
FSR: 100 years: +45 %: 60 mins: Summer	127.0 60	126.6 85	126.83 4	0.149	2.7	0.024	0.000	2.8	3.258	Flood Risk
FSR: 100 years: +45 %: 60 mins: Winter	127.0 60	126.6 85	126.83 5	0.150	2.2	0.024	0.000	2.2	3.239	Flood Risk
FSR: 100 years: +45 %: 120 mins: Summer	127.0 60	126.6 85	126.91 5	0.230	2.0	0.037	0.000	2.0	3.995	Flood Risk
FSR: 100 years: +45 %: 120 mins: Winter	127.0 60	126.6 85	126.91 5	0.230	1.4	0.036	0.000	1.4	3.978	Flood Risk
FSR: 100 years: +45 %: 180 mins: Summer	127.0 60	126.6 85	126.95 6	0.271	1.6	0.043	0.000	1.5	4.426	Flood Risk
FSR: 100 years: +45 %: 180 mins: Winter	127.0 60	126.6 85	126.95 7	0.272	1.1	0.043	0.000	1.1	4.420	Flood Risk
FSR: 100 years: +45 %: 240 mins: Summer	127.0 60	126.6 85	126.98 1	0.296	1.3	0.047	0.000	1.3	4.767	Flood Risk
FSR: 100 years: +45 %: 240 mins: Winter	127.0 60	126.6 85	126.98 2	0.297	0.9	0.047	0.000	0.9	4.773	Flood Risk
FSR: 100 years: +45 %: 360 mins: Summer	127.0 60	126.6 85	127.01 3	0.328	1.0	0.052	0.000	0.9	5.296	Flood Risk
FSR: 100 years: +45 %: 360 mins: Winter	127.0 60	126.6 85	127.01 5	0.330	0.6	0.053	0.000	0.6	5.302	Flood Risk
FSR: 100 years: +45 %: 480 mins: Summer	127.0 60	126.6 85	127.03 0	0.345	0.8	0.055	0.000	0.7	5.698	Flood Risk
FSR: 100 years: +45 %: 480 mins: Winter	127.0 60	126.6 85	127.03 3	0.348	0.5	0.055	0.000	0.5	5.691	Flood Risk
FSR: 100 years: +45 %: 600 mins: Summer	127.0 60	126.6 85	127.03 9	0.354	0.7	0.056	0.000	0.6	6.041	Flood Risk
FSR: 100 years: +45 %: 600 mins: Winter	127.0 60	126.6 85	127.04 3	0.358	0.4	0.057	0.000	0.4	6.054	Flood Risk
FSR: 100 years: +45 %: 720 mins: Summer	127.0 60	126.6 85	127.04 3	0.358	0.6	0.057	0.000	0.5	6.378	Flood Risk
FSR: 100 years: +45 %: 720 mins: Winter	127.0 60	126.6 85	127.04 7	0.362	0.4	0.058	0.000	0.3	6.324	Flood Risk

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (18): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	127.4 40	126.6 40	126.70 0	0.060	6.3	0.009	0.000	6.2	2.758	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.4 40	126.6 40	126.69 8	0.058	5.9	0.009	0.000	5.8	2.758	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.4 40	126.6 40	126.74 7	0.107	4.3	0.017	0.000	4.3	3.557	OK
FSR: 100 years: +45 %: 30 mins: Winter	127.4 40	126.6 40	126.74 7	0.107	4.1	0.017	0.000	4.1	3.567	OK
FSR: 100 years: +45 %: 60 mins: Summer	127.4 40	126.6 40	126.83 4	0.194	3.9	0.031	0.000	3.7	4.425	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.4 40	126.6 40	126.83 5	0.195	3.1	0.031	0.000	3.0	4.412	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.4 40	126.6 40	126.91 5	0.275	2.8	0.044	0.000	2.8	5.427	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.4 40	126.6 40	126.91 5	0.275	2.0	0.044	0.000	2.0	5.410	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.4 40	126.6 40	126.95 6	0.316	2.2	0.050	0.000	1.9	6.018	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.4 40	126.6 40	126.95 7	0.317	1.5	0.050	0.000	1.4	6.006	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.4 40	126.6 40	126.98 1	0.341	1.8	0.054	0.000	1.6	6.502	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.4 40	126.6 40	126.98 2	0.342	1.2	0.054	0.000	1.1	6.490	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.4 40	126.6 40	127.01 3	0.373	1.2	0.059	0.000	1.1	7.241	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.4 40	126.6 40	127.01 5	0.375	0.9	0.060	0.000	0.8	7.265	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.4 40	126.6 40	127.03 0	0.390	1.0	0.062	0.000	0.9	7.835	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.4 40	126.6 40	127.03 3	0.393	0.7	0.063	0.000	0.6	7.823	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.4 40	126.6 40	127.03 9	0.399	0.9	0.063	0.000	0.8	8.325	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.4 40	126.6 40	127.04 3	0.403	0.6	0.064	0.000	0.5	8.331	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.4 40	126.6 40	127.04 3	0.403	0.7	0.064	0.000	0.7	8.794	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.4 40	126.6 40	127.04 7	0.407	0.5	0.065	0.000	0.4	8.783	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (19): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	127.4 40	126.4 85	126.66 1	0.176	12.6	0.028	0.000	12.2	5.207	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.4 40	126.4 85	126.66 1	0.176	11.9	0.028	0.000	11.5	5.202	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.4 40	126.4 85	126.74 7	0.262	8.5	0.042	0.000	8.2	6.732	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.4 40	126.4 85	126.74 7	0.262	8.0	0.042	0.000	7.8	6.750	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.4 40	126.4 85	126.83 5	0.350	7.5	0.056	0.000	6.6	8.429	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.4 40	126.4 85	126.83 5	0.350	5.9	0.056	0.000	5.2	8.410	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.4 40	126.4 85	126.91 5	0.430	5.3	0.068	0.000	5.0	10.416	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.4 40	126.4 85	126.91 5	0.430	3.7	0.068	0.000	3.5	10.407	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.4 40	126.4 85	126.95 6	0.471	3.8	0.075	0.000	3.6	11.626	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.4 40	126.4 85	126.95 7	0.472	2.7	0.075	0.000	2.5	11.609	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.4 40	126.4 85	126.98 1	0.496	3.1	0.079	0.000	2.9	12.588	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.4 40	126.4 85	126.98 2	0.497	2.1	0.079	0.000	2.0	12.575	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.4 40	126.4 85	127.01 3	0.528	2.3	0.084	0.000	2.1	14.134	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.4 40	126.4 85	127.01 5	0.530	1.5	0.084	0.000	1.4	14.128	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.4 40	126.4 85	127.03 0	0.545	1.9	0.087	0.000	1.7	15.364	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.4 40	126.4 85	127.03 3	0.548	1.2	0.087	0.000	1.1	15.368	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.4 40	126.4 85	127.03 9	0.554	1.6	0.088	0.000	1.5	16.458	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.4 40	126.4 85	127.04 3	0.558	1.0	0.089	0.000	1.0	16.436	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.4 40	126.4 85	127.04 3	0.558	1.4	0.089	0.000	1.3	17.451	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.4 40	126.4 85	127.04 7	0.562	0.9	0.089	0.000	0.8	17.393	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (20): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:		Approved By:
		Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.500	126.395	126.661	0.266	12.2	0.042	0.000	11.6	4.898	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.500	126.395	126.661	0.266	11.5	0.042	0.000	10.9	4.890	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.500	126.395	126.747	0.352	8.2	0.056	0.000	7.8	6.328	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.500	126.395	126.747	0.352	7.8	0.056	0.000	7.3	6.344	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.500	126.395	126.835	0.440	6.6	0.070	0.000	6.1	7.932	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.500	126.395	126.835	0.440	5.2	0.070	0.000	4.8	7.914	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.500	126.395	126.915	0.520	5.0	0.083	0.000	4.6	9.849	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.500	126.395	126.915	0.520	3.5	0.083	0.000	3.3	9.840	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.500	126.395	126.956	0.561	3.6	0.089	0.000	3.4	11.033	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.500	126.395	126.957	0.562	2.5	0.089	0.000	2.4	11.016	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.500	126.395	126.981	0.586	2.9	0.093	0.000	2.7	11.988	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.500	126.395	126.982	0.587	2.0	0.093	0.000	1.9	11.975	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.500	126.395	127.013	0.618	2.1	0.098	0.000	2.0	13.540	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.500	126.395	127.015	0.620	1.4	0.099	0.000	1.3	13.535	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.500	126.395	127.030	0.635	1.7	0.101	0.000	1.6	14.795	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.500	126.395	127.033	0.638	1.1	0.101	0.000	1.1	14.799	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.500	126.395	127.039	0.644	1.5	0.102	0.000	1.4	15.921	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.500	126.395	127.043	0.648	1.0	0.103	0.000	0.9	15.899	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.500	126.395	127.043	0.648	1.3	0.103	0.000	1.2	16.950	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.500	126.395	127.047	0.652	0.8	0.104	0.000	0.8	16.892	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (21): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	128.000	126.600	126.671	0.071	8.2	0.011	0.000	8.0	3.468	OK
FSR: 100 years: +45 %: 15 mins: Winter	128.000	126.600	126.668	0.068	7.7	0.011	0.000	7.5	3.473	OK
FSR: 100 years: +45 %: 30 mins: Summer	128.000	126.600	126.747	0.147	5.5	0.023	0.000	5.5	4.594	OK
FSR: 100 years: +45 %: 30 mins: Winter	128.000	126.600	126.747	0.147	5.2	0.023	0.000	5.2	4.594	OK
FSR: 100 years: +45 %: 60 mins: Summer	128.000	126.600	126.835	0.235	4.9	0.037	0.000	4.8	5.828	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	128.000	126.600	126.835	0.235	3.9	0.037	0.000	3.9	5.839	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	128.000	126.600	126.915	0.315	3.6	0.050	0.000	3.5	7.190	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	128.000	126.600	126.915	0.315	2.6	0.050	0.000	2.3	7.172	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	128.000	126.600	126.956	0.356	2.8	0.057	0.000	2.6	8.005	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	128.000	126.600	126.957	0.357	1.9	0.057	0.000	1.8	8.011	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	128.000	126.600	126.981	0.381	2.3	0.061	0.000	2.1	8.598	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	128.000	126.600	126.982	0.382	1.6	0.061	0.000	1.4	8.616	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	128.000	126.600	127.013	0.413	1.8	0.066	0.000	1.6	9.540	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	128.000	126.600	127.015	0.415	1.2	0.066	0.000	1.1	9.559	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	128.000	126.600	127.030	0.430	1.4	0.068	0.000	1.3	10.260	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	128.000	126.600	127.033	0.433	0.9	0.069	0.000	0.9	10.248	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	128.000	126.600	127.039	0.439	1.2	0.070	0.000	1.1	10.862	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	128.000	126.600	127.043	0.443	0.8	0.070	0.000	0.7	10.839	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	128.000	126.600	127.043	0.443	1.0	0.070	0.000	1.0	11.373	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	128.000	126.600	127.047	0.447	0.7	0.071	0.000	0.6	11.403	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (22): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	127.9 80	126.4 80	126.66 1	0.181	11.4	0.051	0.000	11.4	4.746	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.9 80	126.4 80	126.66 1	0.181	10.8	0.051	0.000	10.8	4.749	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.9 80	126.4 80	126.74 7	0.267	7.8	0.076	0.000	7.7	6.276	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.9 80	126.4 80	126.74 7	0.267	7.3	0.076	0.000	7.3	6.276	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.9 80	126.4 80	126.83 5	0.355	6.8	0.100	0.000	6.4	7.976	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.9 80	126.4 80	126.83 5	0.355	5.5	0.100	0.000	5.1	7.987	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.9 80	126.4 80	126.91 5	0.435	5.0	0.123	0.000	4.7	9.855	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.9 80	126.4 80	126.91 5	0.435	3.4	0.123	0.000	3.2	9.837	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.9 80	126.4 80	126.95 6	0.476	3.7	0.135	0.000	3.5	10.998	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.9 80	126.4 80	126.95 7	0.477	2.6	0.135	0.000	2.4	11.021	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.9 80	126.4 80	126.98 1	0.501	3.1	0.142	0.000	2.9	11.853	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.9 80	126.4 80	126.98 2	0.502	2.1	0.142	0.000	2.0	11.865	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.9 80	126.4 80	127.01 3	0.533	2.3	0.151	0.000	2.2	13.187	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.9 80	126.4 80	127.01 5	0.535	1.5	0.152	0.000	1.5	13.205	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.9 80	126.4 80	127.03 0	0.550	1.9	0.156	0.000	1.8	14.219	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.9 80	126.4 80	127.03 3	0.553	1.2	0.157	0.000	1.2	14.218	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.9 80	126.4 80	127.03 9	0.559	1.6	0.158	0.000	1.5	15.092	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.9 80	126.4 80	127.04 3	0.563	1.1	0.159	0.000	1.0	15.057	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.9 80	126.4 80	127.04 3	0.563	1.4	0.159	0.000	1.3	15.843	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.9 80	126.4 80	127.04 7	0.567	0.9	0.160	0.000	0.9	15.880	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (23): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:	
		Approved By:		
		Kemp House: 124 City Road London EC1V 2NX		

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
FSR: 100 years: +45 %: 15 mins: Summer	128.000	126.820	126.849	0.029	5.2	0.005	0.000	5.1	2.248	OK
FSR: 100 years: +45 %: 15 mins: Winter	128.000	126.820	126.848	0.028	4.9	0.004	0.000	4.8	2.248	OK
FSR: 100 years: +45 %: 30 mins: Summer	128.000	126.820	126.843	0.023	3.5	0.004	0.000	3.5	3.023	OK
FSR: 100 years: +45 %: 30 mins: Winter	128.000	126.820	126.842	0.022	3.3	0.003	0.000	3.3	3.023	OK
FSR: 100 years: +45 %: 60 mins: Summer	128.000	126.820	126.841	0.021	3.1	0.003	0.000	3.1	3.881	OK
FSR: 100 years: +45 %: 60 mins: Winter	128.000	126.820	126.838	0.018	2.5	0.003	0.000	2.5	3.869	OK
FSR: 100 years: +45 %: 120 mins: Summer	128.000	126.820	126.915	0.095	2.3	0.015	0.000	2.3	4.717	OK
FSR: 100 years: +45 %: 120 mins: Winter	128.000	126.820	126.915	0.095	1.6	0.015	0.000	1.6	4.711	OK
FSR: 100 years: +45 %: 180 mins: Summer	128.000	126.820	126.956	0.136	1.8	0.022	0.000	1.8	5.219	OK
FSR: 100 years: +45 %: 180 mins: Winter	128.000	126.820	126.957	0.137	1.2	0.022	0.000	1.2	5.231	OK
FSR: 100 years: +45 %: 240 mins: Summer	128.000	126.820	126.981	0.161	1.5	0.026	0.000	1.5	5.597	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	128.000	126.820	126.982	0.162	1.0	0.026	0.000	1.0	5.614	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	128.000	126.820	127.013	0.193	1.1	0.031	0.000	1.1	6.203	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	128.000	126.820	127.015	0.195	0.7	0.031	0.000	0.7	6.203	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	128.000	126.820	127.030	0.210	0.9	0.033	0.000	0.9	6.659	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	128.000	126.820	127.033	0.213	0.6	0.034	0.000	0.6	6.653	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	128.000	126.820	127.039	0.219	0.8	0.035	0.000	0.8	7.063	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	128.000	126.820	127.043	0.223	0.5	0.035	0.000	0.5	7.075	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	128.000	126.820	127.043	0.223	0.7	0.035	0.000	0.7	7.405	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	128.000	126.820	127.047	0.227	0.4	0.036	0.000	0.4	7.442	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (24): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.800	126.820	126.849	0.029	5.1	0.005	0.000	5.0	2.200	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.800	126.820	126.848	0.028	4.8	0.004	0.000	4.7	2.197	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.800	126.820	126.842	0.022	3.4	0.004	0.000	3.4	2.957	OK
FSR: 100 years: +45 %: 30 mins: Winter	127.800	126.820	126.842	0.022	3.2	0.003	0.000	3.2	2.957	OK
FSR: 100 years: +45 %: 60 mins: Summer	127.800	126.820	126.841	0.021	3.0	0.003	0.000	3.0	3.785	OK
FSR: 100 years: +45 %: 60 mins: Winter	127.800	126.820	126.838	0.018	2.4	0.003	0.000	2.4	3.797	OK
FSR: 100 years: +45 %: 120 mins: Summer	127.800	126.820	126.915	0.095	2.2	0.015	0.000	2.2	4.597	OK
FSR: 100 years: +45 %: 120 mins: Winter	127.800	126.820	126.915	0.095	1.6	0.015	0.000	1.6	4.615	OK
FSR: 100 years: +45 %: 180 mins: Summer	127.800	126.820	126.956	0.136	1.7	0.022	0.000	1.7	5.099	OK
FSR: 100 years: +45 %: 180 mins: Winter	127.800	126.820	126.957	0.137	1.2	0.022	0.000	1.2	5.117	OK
FSR: 100 years: +45 %: 240 mins: Summer	127.800	126.820	126.981	0.161	1.4	0.026	0.000	1.5	5.489	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.800	126.820	126.982	0.162	1.0	0.026	0.000	1.0	5.476	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.800	126.820	127.013	0.193	1.1	0.031	0.000	1.1	6.059	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.800	126.820	127.015	0.195	0.7	0.031	0.000	0.7	6.077	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.800	126.820	127.030	0.210	0.9	0.033	0.000	0.9	6.527	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.800	126.820	127.033	0.213	0.6	0.034	0.000	0.6	6.509	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.800	126.820	127.039	0.219	0.8	0.035	0.000	0.8	6.919	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.800	126.820	127.043	0.223	0.5	0.035	0.000	0.5	6.925	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.800	126.820	127.043	0.223	0.7	0.035	0.000	0.7	7.243	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.800	126.820	127.047	0.227	0.4	0.036	0.000	0.4	7.220	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (25): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.900	126.550	126.662	0.112	12.9	0.032	0.000	12.6	7.281	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.900	126.550	126.662	0.112	12.5	0.032	0.000	12.2	7.278	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.900	126.550	126.747	0.197	12.1	0.056	0.000	11.6	7.608	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.900	126.550	126.747	0.197	11.6	0.056	0.000	11.1	7.603	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.900	126.550	126.835	0.285	9.5	0.081	0.000	9.4	8.260	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.900	126.550	126.835	0.285	8.7	0.081	0.000	8.7	8.215	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.900	126.550	126.915	0.365	6.4	0.103	0.000	6.0	9.596	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.900	126.550	126.915	0.365	5.5	0.103	0.000	5.2	9.576	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.900	126.550	126.956	0.406	4.4	0.115	0.000	4.2	10.931	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.900	126.550	126.957	0.407	4.2	0.115	0.000	4.1	10.928	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.900	126.550	126.981	0.431	3.4	0.122	0.000	3.3	12.301	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.900	126.550	126.982	0.432	3.5	0.122	0.000	3.4	12.301	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.900	126.550	127.013	0.463	3.0	0.131	0.000	2.9	15.014	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.900	126.550	127.015	0.465	2.5	0.132	0.000	2.4	15.030	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.900	126.550	127.030	0.480	2.4	0.136	0.000	2.3	17.685	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.900	126.550	127.033	0.483	1.9	0.137	0.000	1.9	17.677	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.900	126.550	127.039	0.489	2.0	0.138	0.000	2.0	20.309	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.900	126.550	127.043	0.493	1.8	0.139	0.000	1.7	20.293	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.900	126.550	127.043	0.493	1.8	0.139	0.000	1.7	22.785	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.900	126.550	127.047	0.497	1.5	0.141	0.000	1.5	22.856	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (26): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.800	126.460	126.661	0.201	7.6	0.032	0.000	7.4	3.048	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.800	126.460	126.661	0.201	7.1	0.032	0.000	7.0	3.053	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.800	126.460	126.747	0.287	5.1	0.046	0.000	5.0	4.083	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.800	126.460	126.747	0.287	4.8	0.046	0.000	4.8	4.076	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.800	126.460	126.835	0.375	4.5	0.060	0.000	4.0	5.214	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.800	126.460	126.835	0.375	3.6	0.060	0.000	3.2	5.220	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.800	126.460	126.915	0.455	3.3	0.072	0.000	3.0	6.469	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.800	126.460	126.915	0.455	2.4	0.072	0.000	2.2	6.475	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.800	126.460	126.956	0.496	2.6	0.079	0.000	2.4	7.241	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.800	126.460	126.957	0.497	1.8	0.079	0.000	1.6	7.235	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.800	126.460	126.981	0.521	2.2	0.083	0.000	2.0	7.774	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.800	126.460	126.982	0.522	1.4	0.083	0.000	1.3	7.786	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.800	126.460	127.013	0.553	1.6	0.088	0.000	1.5	8.651	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.800	126.460	127.015	0.555	1.1	0.088	0.000	1.0	8.657	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.800	126.460	127.030	0.570	1.3	0.091	0.000	1.2	9.323	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.800	126.460	127.033	0.573	0.9	0.091	0.000	0.8	9.311	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.800	126.460	127.039	0.579	1.1	0.092	0.000	1.0	9.859	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.800	126.460	127.043	0.583	0.7	0.093	0.000	0.7	9.889	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.800	126.460	127.043	0.583	1.0	0.093	0.000	0.9	10.381	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.800	126.460	127.047	0.587	0.6	0.093	0.000	0.6	10.406	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (27): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:		Approved By:
		Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.500	126.395	126.661	0.266	7.4	0.042	0.000	6.5	2.744	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	127.500	126.395	126.661	0.266	7.0	0.042	0.000	6.2	2.751	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	127.500	126.395	126.747	0.352	5.0	0.056	0.000	4.5	3.681	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	127.500	126.395	126.747	0.352	4.8	0.056	0.000	4.2	3.673	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	127.500	126.395	126.835	0.440	4.0	0.070	0.000	3.6	4.719	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	127.500	126.395	126.835	0.440	3.2	0.070	0.000	2.9	4.724	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	127.500	126.395	126.915	0.520	3.0	0.083	0.000	2.7	5.902	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	127.500	126.395	126.915	0.520	2.2	0.083	0.000	2.0	5.908	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	127.500	126.395	126.956	0.561	2.4	0.089	0.000	2.1	6.648	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	127.500	126.395	126.957	0.562	1.6	0.089	0.000	1.5	6.642	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	127.500	126.395	126.981	0.586	2.0	0.093	0.000	1.8	7.175	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	127.500	126.395	126.982	0.587	1.3	0.093	0.000	1.2	7.186	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	127.500	126.395	127.013	0.618	1.5	0.098	0.000	1.3	8.058	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	127.500	126.395	127.015	0.620	1.0	0.099	0.000	0.9	8.064	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	127.500	126.395	127.030	0.635	1.2	0.101	0.000	1.1	8.754	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	127.500	126.395	127.033	0.638	0.8	0.101	0.000	0.7	8.741	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	127.500	126.395	127.039	0.644	1.0	0.102	0.000	0.9	9.321	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	127.500	126.395	127.043	0.648	0.7	0.103	0.000	0.6	9.352	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	127.500	126.395	127.043	0.648	0.9	0.103	0.000	0.8	9.880	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	127.500	126.395	127.047	0.652	0.6	0.104	0.000	0.5	9.905	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (28): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	128.000	126.300	126.661	0.361	1.5	0.102	0.000	1.0	1.217	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	128.000	126.300	126.661	0.361	1.5	0.102	0.000	1.0	1.224	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	128.000	126.300	126.747	0.447	1.5	0.126	0.000	1.1	2.943	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	128.000	126.300	126.747	0.447	1.4	0.126	0.000	1.1	2.947	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	128.000	126.300	126.834	0.534	1.4	0.151	0.000	1.2	6.706	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	128.000	126.300	126.834	0.534	1.3	0.151	0.000	1.2	6.708	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	128.000	126.300	126.914	0.614	1.3	0.174	0.000	1.3	14.685	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	128.000	126.300	126.914	0.614	1.3	0.174	0.000	1.3	14.675	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	128.000	126.300	126.955	0.655	1.3	0.185	0.000	1.3	22.868	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	128.000	126.300	126.956	0.656	1.3	0.186	0.000	1.3	22.855	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	128.000	126.300	126.980	0.680	1.3	0.193	0.000	1.3	31.094	Surcharged
FSR: 100 years: +45 %: 240 mins: Winter	128.000	126.300	126.982	0.682	1.3	0.193	0.000	1.3	31.085	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	128.000	126.300	127.013	0.713	1.4	0.202	0.000	1.4	47.641	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	128.000	126.300	127.015	0.715	1.4	0.202	0.000	1.4	47.617	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	128.000	126.300	127.030	0.730	1.4	0.207	0.000	1.4	63.976	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	128.000	126.300	127.032	0.732	1.4	0.207	0.000	1.4	63.965	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	128.000	126.300	127.039	0.739	1.4	0.209	0.000	1.4	80.031	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	128.000	126.300	127.042	0.742	1.4	0.210	0.000	1.4	79.981	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	128.000	126.300	127.042	0.742	1.4	0.210	0.000	1.4	95.700	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	128.000	126.300	127.046	0.746	1.4	0.211	0.000	1.4	95.629	Surcharged

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			



Summary Results for Manhole (29): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.270	126.170	126.194	0.024	1.0	0.004	0.000	1.0	1.160	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.270	126.170	126.194	0.024	1.0	0.004	0.000	1.0	1.167	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.270	126.170	126.195	0.025	1.1	0.004	0.000	1.1	2.882	OK
FSR: 100 years: +45 %: 30 mins: Winter	127.270	126.170	126.195	0.025	1.1	0.004	0.000	1.1	2.886	OK
FSR: 100 years: +45 %: 60 mins: Summer	127.270	126.170	126.196	0.026	1.2	0.004	0.000	1.2	6.643	OK
FSR: 100 years: +45 %: 60 mins: Winter	127.270	126.170	126.196	0.026	1.2	0.004	0.000	1.2	6.645	OK
FSR: 100 years: +45 %: 120 mins: Summer	127.270	126.170	126.197	0.027	1.3	0.004	0.000	1.3	14.619	OK
FSR: 100 years: +45 %: 120 mins: Winter	127.270	126.170	126.197	0.027	1.3	0.004	0.000	1.3	14.609	OK
FSR: 100 years: +45 %: 180 mins: Summer	127.270	126.170	126.198	0.028	1.3	0.004	0.000	1.3	22.801	OK
FSR: 100 years: +45 %: 180 mins: Winter	127.270	126.170	126.198	0.028	1.3	0.004	0.000	1.3	22.789	OK
FSR: 100 years: +45 %: 240 mins: Summer	127.270	126.170	126.198	0.028	1.3	0.004	0.000	1.3	31.027	OK
FSR: 100 years: +45 %: 240 mins: Winter	127.270	126.170	126.198	0.028	1.3	0.004	0.000	1.3	31.019	OK
FSR: 100 years: +45 %: 360 mins: Summer	127.270	126.170	126.198	0.028	1.4	0.004	0.000	1.4	47.574	OK
FSR: 100 years: +45 %: 360 mins: Winter	127.270	126.170	126.198	0.028	1.4	0.004	0.000	1.4	47.550	OK
FSR: 100 years: +45 %: 480 mins: Summer	127.270	126.170	126.198	0.028	1.4	0.005	0.000	1.4	63.910	OK
FSR: 100 years: +45 %: 480 mins: Winter	127.270	126.170	126.198	0.028	1.4	0.005	0.000	1.4	63.898	OK
FSR: 100 years: +45 %: 600 mins: Summer	127.270	126.170	126.198	0.028	1.4	0.005	0.000	1.4	79.965	OK
FSR: 100 years: +45 %: 600 mins: Winter	127.270	126.170	126.199	0.029	1.4	0.005	0.000	1.4	79.916	OK
FSR: 100 years: +45 %: 720 mins: Summer	127.270	126.170	126.199	0.029	1.4	0.005	0.000	1.4	95.636	OK
FSR: 100 years: +45 %: 720 mins: Winter	127.270	126.170	126.199	0.029	1.4	0.005	0.000	1.4	95.565	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		





Summary Results for Manhole (30): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	127.2 70	126.0 50	126.07 5	0.025	1.0	0.004	0.000	1.0	1.131	OK
FSR: 100 years: +45 %: 15 mins: Winter	127.2 70	126.0 50	126.07 5	0.025	1.0	0.004	0.000	1.0	1.138	OK
FSR: 100 years: +45 %: 30 mins: Summer	127.2 70	126.0 50	126.07 6	0.026	1.1	0.004	0.000	1.1	2.851	OK
FSR: 100 years: +45 %: 30 mins: Winter	127.2 70	126.0 50	126.07 6	0.026	1.1	0.004	0.000	1.1	2.856	OK
FSR: 100 years: +45 %: 60 mins: Summer	127.2 70	126.0 50	126.07 7	0.027	1.2	0.004	0.000	1.2	6.611	OK
FSR: 100 years: +45 %: 60 mins: Winter	127.2 70	126.0 50	126.07 7	0.027	1.2	0.004	0.000	1.2	6.613	OK
FSR: 100 years: +45 %: 120 mins: Summer	127.2 70	126.0 50	126.07 8	0.028	1.3	0.005	0.000	1.3	14.586	OK
FSR: 100 years: +45 %: 120 mins: Winter	127.2 70	126.0 50	126.07 8	0.028	1.3	0.005	0.000	1.3	14.576	OK
FSR: 100 years: +45 %: 180 mins: Summer	127.2 70	126.0 50	126.07 9	0.029	1.3	0.005	0.000	1.3	22.768	OK
FSR: 100 years: +45 %: 180 mins: Winter	127.2 70	126.0 50	126.07 9	0.029	1.3	0.005	0.000	1.3	22.756	OK
FSR: 100 years: +45 %: 240 mins: Summer	127.2 70	126.0 50	126.07 9	0.029	1.3	0.005	0.000	1.3	30.994	OK
FSR: 100 years: +45 %: 240 mins: Winter	127.2 70	126.0 50	126.07 9	0.029	1.3	0.005	0.000	1.3	30.985	OK
FSR: 100 years: +45 %: 360 mins: Summer	127.2 70	126.0 50	126.08 0	0.030	1.4	0.005	0.000	1.4	47.541	OK
FSR: 100 years: +45 %: 360 mins: Winter	127.2 70	126.0 50	126.08 0	0.030	1.4	0.005	0.000	1.4	47.517	OK
FSR: 100 years: +45 %: 480 mins: Summer	127.2 70	126.0 50	126.08 0	0.030	1.4	0.005	0.000	1.4	63.877	OK
FSR: 100 years: +45 %: 480 mins: Winter	127.2 70	126.0 50	126.08 0	0.030	1.4	0.005	0.000	1.4	63.866	OK
FSR: 100 years: +45 %: 600 mins: Summer	127.2 70	126.0 50	126.08 0	0.030	1.4	0.005	0.000	1.4	79.933	OK
FSR: 100 years: +45 %: 600 mins: Winter	127.2 70	126.0 50	126.08 0	0.030	1.4	0.005	0.000	1.4	79.884	OK
FSR: 100 years: +45 %: 720 mins: Summer	127.2 70	126.0 50	126.08 0	0.030	1.4	0.005	0.000	1.4	95.604	OK
FSR: 100 years: +45 %: 720 mins: Winter	127.2 70	126.0 50	126.08 0	0.030	1.4	0.005	0.000	1.4	95.533	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (31): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

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
FSR: 100 years: +45 %: 15 mins: Summer	126.9 50	125.9 90	126.00 1	0.011	1.0	0.001	0.000	1.0	1.118	OK
FSR: 100 years: +45 %: 15 mins: Winter	126.9 50	125.9 90	126.00 1	0.011	1.0	0.001	0.000	1.0	1.125	OK
FSR: 100 years: +45 %: 30 mins: Summer	126.9 50	125.9 90	126.00 1	0.011	1.1	0.001	0.000	1.1	2.838	OK
FSR: 100 years: +45 %: 30 mins: Winter	126.9 50	125.9 90	126.00 1	0.011	1.1	0.001	0.000	1.1	2.842	OK
FSR: 100 years: +45 %: 60 mins: Summer	126.9 50	125.9 90	126.00 2	0.012	1.2	0.001	0.000	1.2	6.597	OK
FSR: 100 years: +45 %: 60 mins: Winter	126.9 50	125.9 90	126.00 2	0.012	1.2	0.001	0.000	1.2	6.599	OK
FSR: 100 years: +45 %: 120 mins: Summer	126.9 50	125.9 90	126.00 2	0.012	1.3	0.001	0.000	1.3	14.572	OK
FSR: 100 years: +45 %: 120 mins: Winter	126.9 50	125.9 90	126.00 2	0.012	1.3	0.001	0.000	1.3	14.562	OK
FSR: 100 years: +45 %: 180 mins: Summer	126.9 50	125.9 90	126.00 3	0.013	1.3	0.001	0.000	1.3	22.754	OK
FSR: 100 years: +45 %: 180 mins: Winter	126.9 50	125.9 90	126.00 3	0.013	1.3	0.001	0.000	1.3	22.742	OK
FSR: 100 years: +45 %: 240 mins: Summer	126.9 50	125.9 90	126.00 3	0.013	1.3	0.001	0.000	1.3	30.980	OK
FSR: 100 years: +45 %: 240 mins: Winter	126.9 50	125.9 90	126.00 3	0.013	1.3	0.001	0.000	1.3	30.971	OK
FSR: 100 years: +45 %: 360 mins: Summer	126.9 50	125.9 90	126.00 3	0.013	1.4	0.001	0.000	1.4	47.527	OK
FSR: 100 years: +45 %: 360 mins: Winter	126.9 50	125.9 90	126.00 3	0.013	1.4	0.001	0.000	1.4	47.503	OK
FSR: 100 years: +45 %: 480 mins: Summer	126.9 50	125.9 90	126.00 3	0.013	1.4	0.001	0.000	1.4	63.863	OK
FSR: 100 years: +45 %: 480 mins: Winter	126.9 50	125.9 90	126.00 3	0.013	1.4	0.001	0.000	1.4	63.851	OK
FSR: 100 years: +45 %: 600 mins: Summer	126.9 50	125.9 90	126.00 3	0.013	1.4	0.001	0.000	1.4	79.919	OK
FSR: 100 years: +45 %: 600 mins: Winter	126.9 50	125.9 90	126.00 3	0.013	1.4	0.001	0.000	1.4	79.870	OK
FSR: 100 years: +45 %: 720 mins: Summer	126.9 50	125.9 90	126.00 3	0.013	1.4	0.001	0.000	1.4	95.591	OK
FSR: 100 years: +45 %: 720 mins: Winter	126.9 50	125.9 90	126.00 3	0.013	1.4	0.001	0.000	1.4	95.519	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Manhole (32): Rank By: Max. Flooded Volume

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: M.HAM	Checked by:
		Approved By:	
		Kemp House: 124 City Road London EC1V 2NX	



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
FSR: 100 years: +45 %: 15 mins: Summer	126.470	122.510	122.521	0.011	1.0	0.000	0.000	1.0	1.118	OK
FSR: 100 years: +45 %: 15 mins: Winter	126.470	122.510	122.521	0.011	1.0	0.000	0.000	1.0	1.125	OK
FSR: 100 years: +45 %: 30 mins: Summer	126.470	122.510	122.521	0.011	1.1	0.000	0.000	1.1	2.838	OK
FSR: 100 years: +45 %: 30 mins: Winter	126.470	122.510	122.521	0.011	1.1	0.000	0.000	1.1	2.842	OK
FSR: 100 years: +45 %: 60 mins: Summer	126.470	122.510	122.522	0.012	1.2	0.000	0.000	1.2	6.597	OK
FSR: 100 years: +45 %: 60 mins: Winter	126.470	122.510	122.522	0.012	1.2	0.000	0.000	1.2	6.599	OK
FSR: 100 years: +45 %: 120 mins: Summer	126.470	122.510	122.522	0.012	1.3	0.000	0.000	1.3	14.572	OK
FSR: 100 years: +45 %: 120 mins: Winter	126.470	122.510	122.522	0.012	1.3	0.000	0.000	1.3	14.562	OK
FSR: 100 years: +45 %: 180 mins: Summer	126.470	122.510	122.522	0.012	1.3	0.000	0.000	1.3	22.754	OK
FSR: 100 years: +45 %: 180 mins: Winter	126.470	122.510	122.522	0.012	1.3	0.000	0.000	1.3	22.742	OK
FSR: 100 years: +45 %: 240 mins: Summer	126.470	122.510	122.522	0.012	1.3	0.000	0.000	1.3	30.980	OK
FSR: 100 years: +45 %: 240 mins: Winter	126.470	122.510	122.522	0.012	1.3	0.000	0.000	1.3	30.971	OK
FSR: 100 years: +45 %: 360 mins: Summer	126.470	122.510	122.522	0.012	1.4	0.000	0.000	1.4	47.527	OK
FSR: 100 years: +45 %: 360 mins: Winter	126.470	122.510	122.522	0.012	1.4	0.000	0.000	1.4	47.503	OK
FSR: 100 years: +45 %: 480 mins: Summer	126.470	122.510	122.523	0.013	1.4	0.000	0.000	1.4	63.863	OK
FSR: 100 years: +45 %: 480 mins: Winter	126.470	122.510	122.523	0.013	1.4	0.000	0.000	1.4	63.851	OK
FSR: 100 years: +45 %: 600 mins: Summer	126.470	122.510	122.523	0.013	1.4	0.000	0.000	1.4	79.919	OK
FSR: 100 years: +45 %: 600 mins: Winter	126.470	122.510	122.523	0.013	1.4	0.000	0.000	1.4	79.870	OK
FSR: 100 years: +45 %: 720 mins: Summer	126.470	122.510	122.523	0.013	1.4	0.000	0.000	1.4	95.591	OK
FSR: 100 years: +45 %: 720 mins: Winter	126.470	122.510	122.523	0.013	1.4	0.000	0.000	1.4	95.519	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by:	Checked by:	Approved By:
	M.HAM		
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Cellular Storage: Rank By: Max. Avg. Depth

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)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FSR: 100 years: +45 %: 15 mins: Summer	126.661	126.661	0.311	0.311	93.5	37.866	0.000	0.000	1.5	3.379	243	61.314	OK
FSR: 100 years: +45 %: 15 mins: Winter	126.661	126.661	0.311	0.311	88.6	37.872	0.000	0.000	1.5	3.349	233	61.308	OK
FSR: 100 years: +45 %: 30 mins: Summer	126.747	126.747	0.397	0.397	63.3	48.296	0.000	0.000	1.5	4.930	413	50.658	OK
FSR: 100 years: +45 %: 30 mins: Winter	126.747	126.747	0.397	0.397	60.0	48.292	0.000	0.000	1.4	4.904	413	50.662	OK
FSR: 100 years: +45 %: 60 mins: Summer	126.835	126.835	0.485	0.485	51.1	58.935	0.000	0.000	1.4	8.672	435	39.789	OK
FSR: 100 years: +45 %: 60 mins: Winter	126.835	126.835	0.485	0.485	42.1	58.965	0.000	0.000	1.3	8.665	440	39.758	OK
FSR: 100 years: +45 %: 120 mins: Summer	126.915	126.915	0.565	0.565	37.2	68.678	0.000	0.000	1.3	16.651	459	29.834	OK
FSR: 100 years: +45 %: 120 mins: Winter	126.915	126.915	0.565	0.565	27.6	68.659	0.000	0.000	1.3	16.652	582	29.854	OK
FSR: 100 years: +45 %: 180 mins: Summer	126.956	126.956	0.606	0.606	25.7	73.685	0.000	0.000	1.3	24.784	591	24.719	OK
FSR: 100 years: +45 %: 180 mins: Winter	126.957	126.957	0.607	0.607	19.9	73.779	0.000	0.000	1.3	24.802	542	24.623	OK
FSR: 100 years: +45 %: 240 mins: Summer	126.981	126.981	0.631	0.631	21.2	76.724	0.000	0.000	1.3	32.958	559	21.614	OK
FSR: 100 years: +45 %: 240 mins: Winter	126.982	126.982	0.632	0.632	15.7	76.890	0.000	0.000	1.3	32.954	590	21.444	OK
FSR: 100 years: +45 %: 360 mins: Summer	127.013	127.013	0.663	0.663	16.1	80.672	0.000	0.000	1.4	49.415	600	17.580	OK
FSR: 100 years: +45 %: 360 mins: Winter	127.015	127.015	0.665	0.665	10.8	80.907	0.000	0.000	1.4	49.403	557	17.341	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			 Nimbus ENGINEERING CONSULTANTS

FSR: 100 years: +45 %: 480 mins: Summer	127.03 0	127.03 0	0.680	0.680	13.3	82.724	0.000	0.000	1.4	65.717	567	15.485	OK
FSR: 100 years: +45 %: 480 mins: Winter	127.03 3	127.03 3	0.683	0.683	8.8	83.062	0.000	0.000	1.4	65.689	568	15.139	OK
FSR: 100 years: +45 %: 600 mins: Summer	127.03 9	127.03 9	0.689	0.689	11.3	83.818	0.000	0.000	1.4	81.691	583	14.367	OK
FSR: 100 years: +45 %: 600 mins: Winter	127.04 3	127.04 3	0.693	0.693	7.5	84.212	0.000	0.000	1.4	81.641	600	13.964	OK
FSR: 100 years: +45 %: 720 mins: Summer	127.04 3	127.04 3	0.693	0.693	9.9	84.224	0.000	0.000	1.4	97.304	590	13.952	OK
FSR: 100 years: +45 %: 720 mins: Winter	127.04 7	127.04 7	0.697	0.697	6.6	84.765	0.000	0.000	1.4	97.257	595	13.399	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Tank: Rank By: Max. Avg. Depth

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)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FSR: 100 years: +45 %: 15 mins: Summer	126.849	126.849	0.049	0.049	16.5	1.021	0.000	0.000	14.3	7.269	1	87.843	OK
FSR: 100 years: +45 %: 15 mins: Winter	126.847	126.847	0.047	0.047	15.5	0.985	0.000	0.000	13.6	7.267	1	88.278	OK
FSR: 100 years: +45 %: 30 mins: Summer	126.839	126.839	0.039	0.039	11.4	0.818	0.000	0.000	13.6	9.816	0	90.260	OK
FSR: 100 years: +45 %: 30 mins: Winter	126.837	126.837	0.037	0.037	10.7	0.779	0.000	0.000	12.8	9.799	1	90.732	OK
FSR: 100 years: +45 %: 60 mins: Summer	126.835	126.835	0.035	0.035	10.1	0.741	0.000	0.000	10.3	12.219	1	91.174	OK
FSR: 100 years: +45 %: 60 mins: Winter	126.835	126.835	0.035	0.035	8.1	0.734	0.000	0.000	8.2	12.226	1	91.266	OK
FSR: 100 years: +45 %: 120 mins: Summer	126.915	126.915	0.115	0.115	7.4	2.411	0.000	0.000	7.4	13.745	6	71.302	OK
FSR: 100 years: +45 %: 120 mins: Winter	126.915	126.915	0.115	0.115	5.3	2.407	0.000	0.000	5.3	13.756	7	71.343	OK
FSR: 100 years: +45 %: 180 mins: Summer	126.956	126.956	0.156	0.156	5.8	3.275	0.000	0.000	5.8	15.016	9	61.009	OK
FSR: 100 years: +45 %: 180 mins: Winter	126.957	126.957	0.157	0.157	4.0	3.292	0.000	0.000	4.0	15.013	12	60.814	OK
FSR: 100 years: +45 %: 240 mins: Summer	126.981	126.981	0.181	0.181	4.8	3.800	0.000	0.000	4.8	16.095	11	54.760	OK
FSR: 100 years: +45 %: 240 mins: Winter	126.982	126.982	0.182	0.182	3.2	3.829	0.000	0.000	3.2	16.081	18	54.418	OK
FSR: 100 years: +45 %: 360 mins: Summer	127.013	127.013	0.213	0.213	3.6	4.482	0.000	0.000	3.6	18.202	18	46.641	OK
FSR: 100 years: +45 %: 360 mins: Winter	127.015	127.015	0.215	0.215	2.4	4.523	0.000	0.000	2.4	18.122	27	46.160	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			 Nimbus ENGINEERING CONSULTANTS

FSR: 100 years: +45 %: 480 mins: Summer	127.03 0	127.03 0	0.230	0.230	3.0	4.836	0.000	0.000	3.0	20.075	24	42.425	OK
FSR: 100 years: +45 %: 480 mins: Winter	127.03 3	127.03 3	0.233	0.233	1.9	4.895	0.000	0.000	1.9	20.097	35	41.729	OK
FSR: 100 years: +45 %: 600 mins: Summer	127.03 9	127.03 9	0.239	0.239	2.5	5.025	0.000	0.000	2.5	21.891	28	40.175	OK
FSR: 100 years: +45 %: 600 mins: Winter	127.04 3	127.04 3	0.243	0.243	1.6	5.093	0.000	0.000	1.6	21.906	44	39.366	OK
FSR: 100 years: +45 %: 720 mins: Summer	127.04 3	127.04 3	0.243	0.243	2.2	5.095	0.000	0.000	2.2	23.685	32	39.341	OK
FSR: 100 years: +45 %: 720 mins: Winter	127.04 7	127.04 7	0.247	0.247	1.4	5.189	0.000	0.000	1.4	23.558	48	38.227	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by:	Checked by:	Approved By:
	M.HAM		
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Tank (1): Rank By: Max. Avg. Depth

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)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FSR: 100 years: +45 %: 15 mins: Summer	126.661	126.661	0.361	0.361	16.0	6.940	0.000	0.000	1.2	0.387	1038	54.816	OK
FSR: 100 years: +45 %: 15 mins: Winter	126.661	126.661	0.361	0.361	15.0	6.940	0.000	0.000	1.2	0.378	5646	54.817	OK
FSR: 100 years: +45 %: 30 mins: Summer	126.747	126.747	0.447	0.447	10.7	8.586	0.000	0.000	0.9	1.054	102	44.104	OK
FSR: 100 years: +45 %: 30 mins: Winter	126.747	126.747	0.447	0.447	10.1	8.585	0.000	0.000	1.0	1.043	97	44.108	OK
FSR: 100 years: +45 %: 60 mins: Summer	126.835	126.835	0.535	0.535	8.9	10.265	0.000	0.000	1.1	2.196	96	33.169	OK
FSR: 100 years: +45 %: 60 mins: Winter	126.835	126.835	0.535	0.535	7.1	10.270	0.000	0.000	1.3	2.189	85	33.138	OK
FSR: 100 years: +45 %: 120 mins: Summer	126.915	126.915	0.615	0.615	6.7	11.804	0.000	0.000	1.8	3.942	100	23.152	OK
FSR: 100 years: +45 %: 120 mins: Winter	126.915	126.915	0.615	0.615	4.8	11.801	0.000	0.000	1.2	3.923	133	23.172	OK
FSR: 100 years: +45 %: 180 mins: Summer	126.956	126.956	0.656	0.656	5.2	12.594	0.000	0.000	1.4	5.266	120	18.005	OK
FSR: 100 years: +45 %: 180 mins: Winter	126.957	126.957	0.657	0.657	3.6	12.609	0.000	0.000	1.0	5.263	165	17.907	OK
FSR: 100 years: +45 %: 240 mins: Summer	126.981	126.981	0.681	0.681	4.3	13.074	0.000	0.000	1.2	6.445	149	14.881	OK
FSR: 100 years: +45 %: 240 mins: Winter	126.982	126.982	0.682	0.682	2.9	13.101	0.000	0.000	0.9	6.478	185	14.709	OK
FSR: 100 years: +45 %: 360 mins: Summer	127.013	127.013	0.713	0.713	3.3	13.698	0.000	0.000	0.9	8.606	138	10.820	OK
FSR: 100 years: +45 %: 360 mins: Winter	127.015	127.015	0.715	0.715	2.2	13.735	0.000	0.000	0.8	8.644	184	10.580	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

FSR: 100 years: +45 %: 480 mins: Summer	127.03 0	127.03 0	0.730	0.730	2.7	14.022	0.000	0.000	0.8	10.661	160	8.712	OK
FSR: 100 years: +45 %: 480 mins: Winter	127.03 3	127.03 3	0.733	0.733	1.7	14.075	0.000	0.000	0.6	10.658	220	8.365	OK
FSR: 100 years: +45 %: 600 mins: Summer	127.03 9	127.03 9	0.739	0.739	2.3	14.195	0.000	0.000	0.8	12.577	183	7.587	OK
FSR: 100 years: +45 %: 600 mins: Winter	127.04 3	127.04 3	0.743	0.743	1.5	14.257	0.000	0.000	0.6	12.613	234	7.182	OK
FSR: 100 years: +45 %: 720 mins: Summer	127.04 3	127.04 3	0.743	0.743	2.0	14.259	0.000	0.000	0.7	14.405	218	7.170	OK
FSR: 100 years: +45 %: 720 mins: Winter	127.04 7	127.04 7	0.747	0.747	1.3	14.344	0.000	0.000	0.5	14.232	266	6.613	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Tank (3): Rank By: Max. Avg. Depth

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)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FSR: 100 years: +45 %: 15 mins: Summer	126.680	126.680	0.080	0.080	21.7	2.892	0.000	0.000	12.9	7.359	5	86.610	OK
FSR: 100 years: +45 %: 15 mins: Winter	126.679	126.679	0.079	0.079	20.4	2.829	0.000	0.000	12.5	7.357	5	86.902	OK
FSR: 100 years: +45 %: 30 mins: Summer	126.747	126.747	0.147	0.147	14.7	5.294	0.000	0.000	12.1	7.727	4	75.492	OK
FSR: 100 years: +45 %: 30 mins: Winter	126.747	126.747	0.147	0.147	13.8	5.293	0.000	0.000	11.6	7.724	4	75.497	OK
FSR: 100 years: +45 %: 60 mins: Summer	126.835	126.835	0.235	0.235	13.1	8.448	0.000	0.000	9.5	8.468	9	60.888	OK
FSR: 100 years: +45 %: 60 mins: Winter	126.835	126.835	0.235	0.235	10.5	8.457	0.000	0.000	8.7	8.445	11	60.845	OK
FSR: 100 years: +45 %: 120 mins: Summer	126.915	126.915	0.315	0.315	9.6	11.333	0.000	0.000	6.4	9.913	36	47.532	OK
FSR: 100 years: +45 %: 120 mins: Winter	126.915	126.915	0.315	0.315	6.9	11.327	0.000	0.000	5.5	9.920	33	47.561	OK
FSR: 100 years: +45 %: 180 mins: Summer	126.956	126.956	0.356	0.356	7.5	12.815	0.000	0.000	4.4	11.300	56	40.670	OK
FSR: 100 years: +45 %: 180 mins: Winter	126.957	126.957	0.357	0.357	5.2	12.843	0.000	0.000	4.2	11.317	52	40.542	OK
FSR: 100 years: +45 %: 240 mins: Summer	126.981	126.981	0.381	0.381	6.2	13.715	0.000	0.000	3.4	12.701	63	36.505	OK
FSR: 100 years: +45 %: 240 mins: Winter	126.982	126.982	0.382	0.382	4.2	13.764	0.000	0.000	3.5	12.710	69	36.277	OK
FSR: 100 years: +45 %: 360 mins: Summer	127.013	127.013	0.413	0.413	4.7	14.884	0.000	0.000	3.0	15.420	80	31.094	OK
FSR: 100 years: +45 %: 360 mins: Winter	127.015	127.015	0.415	0.415	3.1	14.953	0.000	0.000	2.5	15.441	95	30.772	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			 Nimbus ENGINEERING CONSULTANTS

FSR: 100 years: +45 %: 480 mins: Summer	127.03 0	127.03 0	0.430	0.430	3.8	15.491	0.000	0.000	2.4	18.072	104	28.282	OK
FSR: 100 years: +45 %: 480 mins: Winter	127.03 3	127.03 3	0.433	0.433	2.5	15.591	0.000	0.000	1.9	18.065	127	27.818	OK
FSR: 100 years: +45 %: 600 mins: Summer	127.03 9	127.03 9	0.439	0.439	3.3	15.815	0.000	0.000	2.0	20.665	123	26.782	OK
FSR: 100 years: +45 %: 600 mins: Winter	127.04 3	127.04 3	0.443	0.443	2.1	15.932	0.000	0.000	1.8	20.649	122	26.243	OK
FSR: 100 years: +45 %: 720 mins: Summer	127.04 3	127.04 3	0.443	0.443	2.8	15.935	0.000	0.000	1.8	23.105	139	26.226	OK
FSR: 100 years: +45 %: 720 mins: Winter	127.04 7	127.04 7	0.447	0.447	1.8	16.096	0.000	0.000	1.5	23.176	144	25.484	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Summary Results for Tank (2): Rank By: Max. Avg. Depth

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)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FSR: 100 years: +45 %: 15 mins: Summer	126.661	126.661	0.211	0.211	14.7	4.059	0.000	0.000	9.8	2.384	4	69.795	OK
FSR: 100 years: +45 %: 15 mins: Winter	126.661	126.661	0.211	0.211	13.8	4.060	0.000	0.000	9.3	2.373	4	69.793	OK
FSR: 100 years: +45 %: 30 mins: Summer	126.747	126.747	0.297	0.297	9.9	5.706	0.000	0.000	6.6	2.560	11	57.545	OK
FSR: 100 years: +45 %: 30 mins: Winter	126.747	126.747	0.297	0.297	9.3	5.705	0.000	0.000	6.1	2.548	12	57.550	OK
FSR: 100 years: +45 %: 60 mins: Summer	126.835	126.835	0.385	0.385	8.1	7.386	0.000	0.000	2.7	3.026	55	45.048	OK
FSR: 100 years: +45 %: 60 mins: Winter	126.835	126.835	0.385	0.385	6.5	7.390	0.000	0.000	3.7	3.070	46	45.014	OK
FSR: 100 years: +45 %: 120 mins: Summer	126.915	126.915	0.465	0.465	5.6	8.924	0.000	0.000	1.9	4.219	118	33.601	OK
FSR: 100 years: +45 %: 120 mins: Winter	126.915	126.915	0.465	0.465	4.1	8.921	0.000	0.000	1.7	4.218	129	33.625	OK
FSR: 100 years: +45 %: 180 mins: Summer	126.956	126.956	0.506	0.506	4.4	9.715	0.000	0.000	1.0	5.248	107	27.719	OK
FSR: 100 years: +45 %: 180 mins: Winter	126.957	126.957	0.507	0.507	3.0	9.729	0.000	0.000	1.5	5.256	100	27.608	OK
FSR: 100 years: +45 %: 240 mins: Summer	126.981	126.981	0.531	0.531	3.6	10.194	0.000	0.000	0.8	6.189	140	24.149	OK
FSR: 100 years: +45 %: 240 mins: Winter	126.982	126.982	0.532	0.532	2.4	10.221	0.000	0.000	1.0	6.192	135	23.953	OK
FSR: 100 years: +45 %: 360 mins: Summer	127.013	127.013	0.563	0.563	2.7	10.818	0.000	0.000	0.5	8.069	204	19.510	OK
FSR: 100 years: +45 %: 360 mins: Winter	127.015	127.015	0.565	0.565	1.8	10.855	0.000	0.000	0.7	8.050	196	19.235	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:100 Years Storm Event + 45% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
		Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX		



FSR: 100 years: +45 %: 480 mins: Summer	127.03 0	127.03 0	0.580	0.580	2.2	11.142	0.000	0.000	0.5	9.872	266	17.100	OK
FSR: 100 years: +45 %: 480 mins: Winter	127.03 3	127.03 3	0.583	0.583	1.5	11.195	0.000	0.000	0.5	9.871	265	16.702	OK
FSR: 100 years: +45 %: 600 mins: Summer	127.03 9	127.03 9	0.589	0.589	1.9	11.315	0.000	0.000	0.4	11.592	275	15.814	OK
FSR: 100 years: +45 %: 600 mins: Winter	127.04 3	127.04 3	0.593	0.593	1.2	11.377	0.000	0.000	0.4	11.508	310	15.352	OK
FSR: 100 years: +45 %: 720 mins: Summer	127.04 3	127.04 3	0.593	0.593	1.6	11.379	0.000	0.000	0.4	13.237	288	15.338	OK
FSR: 100 years: +45 %: 720 mins: Winter	127.04 7	127.04 7	0.597	0.597	1.1	11.464	0.000	0.000	0.4	13.342	341	14.702	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		


Nimbus
ENGINEERING CONSULTANTS

Outlets			
Junction	Outlet Name	Outgoing Connection	Outlet Type
Manhole	Outlet	Pipe	Free Discharge
Manhole (1)	Outlet	Pipe (1)	Free Discharge
Manhole (2)	Outlet	Pipe (2)	Free Discharge
Manhole (3)	Outlet	Pipe (3)	Free Discharge
Manhole (4)	Outlet	Pipe (5)	Free Discharge
Manhole (5)	Outlet	Pipe (6)	Free Discharge
Manhole (6)	Outlet	Pipe (7)	Free Discharge
Manhole (7)	Outlet	Pipe (8)	Free Discharge
Manhole (8)	Outlet	Pipe (9)	Free Discharge
Manhole (9)	Outlet	Pipe (11)	Free Discharge
Manhole (10)	Outlet	Pipe (12)	Free Discharge
Manhole (11)	Outlet	Pipe (13)	Free Discharge
Manhole (12)	Outlet	Pipe (14)	Free Discharge
Manhole (13)	Outlet	Pipe (15)	Free Discharge
Manhole (14)	Outlet	Pipe (17)	Free Discharge
Manhole (15)	Outlet	Pipe (18)	Free Discharge
Manhole (16)	Outlet	Pipe (19)	Free Discharge
Manhole (17)	Outlet	Pipe (20)	Free Discharge
Manhole (18)	Outlet	Pipe (21)	Free Discharge
Manhole (19)	Outlet	Pipe (22)	Free Discharge
Manhole (20)	Outlet	Pipe (23)	Free Discharge
Manhole (21)	Outlet	Pipe (24)	Free Discharge
Manhole (22)	Outlet	Pipe (25)	Free Discharge
Manhole (23)	Outlet	Pipe (26)	Free Discharge
Manhole (24)	Outlet	Pipe (27)	Free Discharge
Manhole (25)	Outlet	Pipe (29)	Free Discharge
Manhole (26)	Outlet	Pipe (30)	Free Discharge
Manhole (27)	Outlet	Pipe (31)	Free Discharge
Manhole (28)	Outlet	Pipe (33)	Orifice
	Diameter (m)	0.028	
	Coefficient of Discharge	0.600	
	Invert Level (m)	126.300	
Manhole (29)	Outlet	Pipe (34)	Free Discharge
Manhole (30)	Outlet	Pipe (35)	Free Discharge
Manhole (31)	Outlet	Pipe (36)	Free Discharge

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank

Type : Tank

Dimensions

Exceedance Level (m)	128.000
Depth (m)	1.200
Base Level (m)	126.800
Freeboard (mm)	800
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	8.400

Depth (m)	Area (m²)	Volume (m³)
0.000	70.00	0.000
1.000	70.00	21.000

Advanced

Perimeter	Circular
Length (m)	9.789



Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)	127.500
Depth (m)	1.200
Base Level (m)	126.300
Freeboard (mm)	400
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	15.360

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.003

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank (3)

Type : Tank

Dimensions

Exceedance Level (m)	127.800
Depth (m)	1.200
Base Level (m)	126.600
Freeboard (mm)	600
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	21.600

Depth (m)	Area (m²)	Volume (m³)
0.000	120.00	0.000
1.000	120.00	36.000

Advanced

Perimeter	Circular
Length (m)	22.192



Tank (2)

Type : Tank

Dimensions

Exceedance Level (m)	127.650
Depth (m)	1.200
Base Level (m)	126.450
Freeboard (mm)	500
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	13.440

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.526

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Cellular Storage

Type : Cellular Storage

Dimensions

Exceedance Level (m)	127.750
Depth (m)	0.800
Base Level (m)	126.350
Number of Crates Long	32
Number of Crates Wide	8
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	97.880

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole	127.270 126.920	Diameter / Length: 0.450					Manhole
E:542342.598	0.350						
N:136640.010			{a} Pipe	Pipe	126.920	Diam/Width:150	Not Applicable
Manhole (1)	128.000 126.825	Diameter / Length: 0.450	{1} Pipe	Pipe	126.825	Diam/Width:150	Manhole
E:542345.529	1.175						
N:136628.441			{a} Pipe (1)	Pipe	126.825	Diam/Width:150	Not Applicable
Manhole (2)	127.270 126.890	Diameter / Length: 0.450					Manhole
E:542350.855	0.380						
N:136642.127			{a} Pipe (2)	Pipe	126.890	Diam/Width:150	Not Applicable
Manhole (3)	128.000 126.820	Diameter / Length: 0.450	{1} Pipe (2)	Pipe	126.820	Diam/Width:150	Manhole
E:542352.346	1.180						
N:136635.964			{a} Pipe (3)	Pipe	126.820	Diam/Width:150	Not Applicable
Manhole (4)	128.000 126.450	Diameter / Length: 0.600	{1} Pipe (4)	Pipe	126.450	Diam/Width:150	Manhole
E:542352.068	1.550						
N:136623.850			{a} Pipe (5)	Pipe	126.450	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (5)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542356.427	0.800						
N:136643.474			{a} Pipe (6)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (6)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (6)	Pipe	126.325	Diam/Width:150	Manhole
E:542359.328	1.175						
N:136631.544			{a} Pipe (7)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (7)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542367.229	0.800						
N:136645.971			{a} Pipe (8)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (8)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (8)	Pipe	126.325	Diam/Width:150	Manhole
E:542369.974	1.175						
N:136633.912			{a} Pipe (9)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (9)	127.500 126.250	Diameter / Length: 0.600	{1} Pipe (10)	Pipe	126.250	Diam/Width:150	Manhole
E:542365.757	1.250						
N:136627.141			{a} Pipe (11)	Pipe	126.250	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			 Nimbus ENGINEERING CONSULTANTS

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (10)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542370.040	0.500						
N:136648.017			{a} Pipe (12)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (11)	127.650 126.465	Diameter / Length: 0.450	{1} Pipe (12)	Pipe	126.465	Diam/Width:150	Manhole
E:542372.448	1.185						
N:136637.817			{a} Pipe (13)	Pipe	126.465	Diam/Width:150	Not Applicable
Manhole (12)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542379.153	0.500						
N:136650.176			{a} Pipe (14)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (13)	127.650 126.470	Diameter / Length: 0.450	{1} Pipe (14)	Pipe	126.470	Diam/Width:150	Manhole
E:542381.720	1.180						
N:136639.115			{a} Pipe (15)	Pipe	126.470	Diam/Width:150	Not Applicable
Manhole (14)	127.650 126.400	Diameter / Length: 0.600	{1} Pipe (16)	Pipe	126.400	Diam/Width:150	Manhole
E:542378.821	1.250						
N:136630.313			{a} Pipe (17)	Pipe	126.400	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (15)	127.060 126.620	Diameter / Length: 0.450					Manhole
E:542381.828	0.440						
N:136652.188			{a} Pipe (18)	Pipe	126.620	Diam/Width:150	Not Applicable
Manhole (16)	127.440 126.510	Diameter / Length: 0.450	{1} Pipe (18)	Pipe	126.510	Diam/Width:150	Manhole
E:542384.562	0.930						
N:136641.198			{a} Pipe (19)	Pipe	126.510	Diam/Width:150	Not Applicable
Manhole (17)	127.060 126.685	Diameter / Length: 0.450					Manhole
E:542391.937	0.375						
N:136654.668			{a} Pipe (20)	Pipe	126.685	Diam/Width:150	Not Applicable
Manhole (18)	127.440 126.640	Diameter / Length: 0.450	{1} Pipe (20)	Pipe	126.640	Diam/Width:150	Manhole
E:542393.170	0.800						
N:136650.027			{a} Pipe (21)	Pipe	126.640	Diam/Width:150	Not Applicable
Manhole (19)	127.440 126.485	Diameter / Length: 0.450	{1} Pipe (19)	Pipe	126.485	Diam/Width:150	Manhole
E:542383.785	0.955		{2} Pipe (21)	Pipe	126.485	Diam/Width:150	
N:136639.014			{a} Pipe (22)	Pipe	126.485	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			 Nimbus ENGINEERING CONSULTANTS

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (20)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (22)	Pipe	126.395	Diam/Width: 150	Manhole
E:542385.948 N:136630.438	1.105						
			{a} Pipe (23)	Pipe	126.395	Diam/Width: 150	Not Applicable
Manhole (21)	128.000 126.600	Diameter / Length: 0.450					Manhole
E:542361.046 N:136609.815	1.400						
			{a} Pipe (24)	Pipe	126.600	Diam/Width: 150	Not Applicable
Manhole (22)	127.980 126.480	Diameter / Length: 0.600	{1} Pipe (24)	Pipe	126.480	Diam/Width: 150	Manhole
E:542360.222 N:136619.214	1.500						
			{a} Pipe (25)	Pipe	126.480	Diam/Width: 150	Not Applicable
Manhole (23)	128.000 126.820	Diameter / Length: 0.450					Manhole
E:542374.159 N:136605.961	1.180						
			{a} Pipe (26)	Pipe	126.820	Diam/Width: 150	Not Applicable
Manhole (24)	127.800 126.820	Diameter / Length: 0.450					Manhole
E:542380.833 N:136607.513	0.980						
			{a} Pipe (27)	Pipe	126.820	Diam/Width: 150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
Report Details: Type: Manhole Schedule Storm Phase: Phase		Designed by: M.HAM	Checked by: Approved By:
		Kemp House: 124 City Road London EC1V 2NX	



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (25)	127.900 126.550	Diameter / Length: 0.600	{1} Pipe (28)	Pipe	126.550	Diam/Width:150	Manhole
E:542373.880 N:136621.422	1.350						
			{a} Pipe (29)	Pipe	126.550	Diam/Width:150	Not Applicable
Manhole (26)	127.800 126.460	Diameter / Length: 0.450					Manhole
E:542389.052 N:136622.992	1.340						
			{a} Pipe (30)	Pipe	126.460	Diam/Width:150	Not Applicable
Manhole (27)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (30)	Pipe	126.395	Diam/Width:150	Manhole
E:542386.452 N:136628.631	1.105						
			{a} Pipe (31)	Pipe	126.395	Diam/Width:150	Not Applicable
Manhole (28)	128.000 126.300	Diameter / Length: 0.600	{1} Pipe (32)	Pipe	126.300	Diam/Width:150	Manhole
E:542354.522 N:136630.536	1.700						
			{a} Pipe (33)	Pipe	126.300	Diam/Width:150	Not Applicable
Manhole (29)	127.270 126.170	Diameter / Length: 0.450	{1} Pipe (33)	Pipe	126.170	Diam/Width:150	Manhole
E:542354.385 N:136643.263	1.100						
			{a} Pipe (34)	Pipe	126.170	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (30)	127.270 126.050	Diameter / Length: 0.450	{1} Pipe (34)	Pipe	126.050	Diam/Width: 150	Manhole
E:542351.819 N:136654.517	1.220						
			{a} Pipe (35)	Pipe	126.050	Diam/Width: 150	Not Applicable
Manhole (31)	126.950 125.990	Diameter / Length: 0.300	{1} Pipe (35)	Pipe	125.990	Diam/Width: 150	Manhole
E:542350.017 N:136659.502	0.960						
			{a} Pipe (36)	Pipe	125.990	Diam/Width: 150	Not Applicable
Manhole (32)	126.470 122.510	Diameter / Length: 1.200	{1} Pipe (36)	Pipe	122.510	Diam/Width: 150	Manhole
E:542358.642 N:136668.897	3.960						
							Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
Report Details: Type: Inflow Summary Storm Phase: Phase		Designed by: M.HAM	Checked by: Approved By:
		Kemp House: 124 City Road London EC1V 2NX	



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Cellular Storage		Time of Concentration	0.047	100	0	100	0.047
Catchment Area (1)	Manhole (21)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (2)	Manhole (22)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (3)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (4)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (5)	Manhole (26)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Manhole		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (7)	Manhole (2)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (8)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (9)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (10)	Manhole (5)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (11)	Manhole (7)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (12)	Tank (1)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (13)	Tank (1)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (14)	Manhole (10)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (15)	Tank (2)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (16)	Manhole (12)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (17)	Tank (2)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (18)	Manhole (15)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (19)	Manhole (16)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (20)	Manhole (17)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (21)	Manhole (18)		Time of Concentration	0.003	100	0	100	0.003
R	Manhole (24)		Time of Concentration	0.009	100	0	100	0.009
R (1)	Manhole (21)		Time of Concentration	0.009	100	0	100	0.009
R (2)	Manhole (23)		Time of Concentration	0.009	100	0	100	0.009
R (3)	Manhole (26)		Time of Concentration	0.009	100	0	100	0.009
R (4)	Manhole (15)		Time of Concentration	0.006	100	0	100	0.006
R (5)	Manhole (12)		Time of Concentration	0.006	100	0	100	0.006
R (6)	Manhole (17)		Time of Concentration	0.005	100	0	100	0.005
R (7)	Manhole (5)		Time of Concentration	0.007	100	0	100	0.007
R (8)	Manhole (10)		Time of Concentration	0.005	100	0	100	0.005
R (9)	Manhole (7)		Time of Concentration	0.007	100	0	100	0.007

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



R (10)	Manhole		Time of Concentration	0.007	100	0	100	0.007
R (11)	Manhole (2)		Time of Concentration	0.007	100	0	100	0.007
TOTAL		0.0		0.224				0.224

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Title: Rainfall Analysis Criteria	Kemp House: 124 City Road London EC1V 2NX		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	20.0
Ratio R	0.350
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
30.0	40.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Title: UK and Ireland Rural Runoff Calculator	Kemp House: 124 City Road London EC1V 2NX		


Nimbus
 ENGINEERING CONSULTANTS

ICP SUDS / IH 124

Details

Method	ICP SUDS
Area (ha)	0.224
SAAR (mm)	884.0
Soil	0.47
Region	Region 7
Urban	0.75
Return Period (years)	100

Results

Region	QBAR Rural (L/s)	QBAR Urban (L/s)	Q 100 (years) (L/s)	Q 1 (years) (L/s)	Q 30 (years) (L/s)	Q 100 (years) (L/s)
Region 7	1.4	3.5	7.1	3.0	6.0	7.1

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			



Critical Storm Per Item: Rank By: Max. Flooded Volume

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
Manhole	FSR: 30 years: +40 %: 15 mins: Summer	127.270	126.920	126.971	0.051	3.7	0.008	0.000	3.6	1.614	Flood Risk
Manhole (1)	FSR: 30 years: +40 %: 15 mins: Summer	128.000	126.825	126.872	0.047	3.6	0.008	0.000	3.6	1.612	OK
Manhole (2)	FSR: 30 years: +40 %: 15 mins: Summer	127.270	126.890	126.942	0.052	4.4	0.008	0.000	4.3	1.896	OK
Manhole (3)	FSR: 30 years: +40 %: 15 mins: Summer	128.000	126.820	126.870	0.050	4.3	0.008	0.000	4.2	1.895	OK
Manhole (4)	FSR: 30 years: +40 %: 15 mins: Summer	128.000	126.450	126.591	0.141	10.5	0.040	0.000	10.2	5.230	OK
Manhole (5)	FSR: 30 years: +40 %: 15 mins: Summer	127.250	126.450	126.591	0.141	4.2	0.022	0.000	4.2	1.683	OK
Manhole (6)	FSR: 30 years: +40 %: 15 mins: Summer	127.500	126.325	126.591	0.266	4.2	0.042	0.000	3.5	1.378	Surcharged
Manhole (7)	FSR: 30 years: +40 %: 15 mins: Summer	127.250	126.450	126.591	0.141	4.4	0.022	0.000	4.3	1.729	OK
Manhole (8)	FSR: 30 years: +40 %: 15 mins: Summer	127.500	126.325	126.591	0.266	4.3	0.042	0.000	3.6	1.424	Surcharged
Manhole (9)	FSR: 30 years: +40 %: 15 mins: Summer	127.500	126.250	126.591	0.341	1.4	0.097	0.000	0.6	1.048	Surcharged
Manhole (10)	FSR: 30 years: +40 %: 15 mins: Summer	127.060	126.560	126.606	0.046	3.2	0.007	0.000	3.1	1.366	OK
Manhole (11)	FSR: 30 years: +40 %: 15 mins: Summer	127.650	126.465	126.591	0.126	3.1	0.020	0.000	3.0	1.227	OK
Manhole (12)	FSR: 30 years: +40 %: 15 mins: Summer	127.060	126.560	126.609	0.049	3.4	0.008	0.000	3.3	1.459	OK
Manhole (13)	FSR: 30 years: +40 %: 15 mins: Summer	127.650	126.470	126.591	0.121	3.3	0.019	0.000	3.2	1.327	OK
Manhole (14)	FSR: 30 years: +40 %: 15 mins: Summer	127.650	126.400	126.591	0.191	7.4	0.054	0.000	7.1	2.452	Surcharged
Manhole (15)	FSR: 30 years: +40 %: 15 mins: Summer	127.060	126.620	126.665	0.045	3.4	0.007	0.000	3.4	1.484	OK
Manhole (16)	FSR: 30 years: +40 %: 15 mins: Summer	127.440	126.510	126.591	0.081	5.0	0.013	0.000	4.8	2.093	OK
Manhole (17)	FSR: 30 years: +40 %: 15 mins: Summer	127.060	126.685	126.734	0.049	3.4	0.008	0.000	3.3	1.473	OK
Manhole (18)	FSR: 30 years: +40 %: 15 mins: Summer	127.440	126.640	126.691	0.051	4.7	0.008	0.000	4.6	2.074	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
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		Kemp House: 124 City Road London EC1V 2NX	



Manhole (19)	FSR: 30 years: +40 %: 15 mins: Summer	127.4 40	126.4 85	126.59 1	0.106	9.4	0.017	0.000	9.0	3.984	OK
Manhole (20)	FSR: 30 years: +40 %: 15 mins: Summer	127.5 00	126.3 95	126.59 1	0.196	9.0	0.031	0.000	8.7	3.757	Surcharged
Manhole (21)	FSR: 30 years: +40 %: 15 mins: Summer	128.0 00	126.6 00	126.66 0	0.060	6.1	0.010	0.000	6.0	2.633	OK
Manhole (22)	FSR: 30 years: +40 %: 15 mins: Summer	127.9 80	126.4 80	126.59 1	0.111	8.5	0.031	0.000	8.3	3.605	OK
Manhole (23)	FSR: 30 years: +40 %: 15 mins: Summer	128.0 00	126.8 20	126.84 4	0.024	3.9	0.004	0.000	3.8	1.676	OK
Manhole (24)	FSR: 30 years: +40 %: 15 mins: Summer	127.8 00	126.8 20	126.84 4	0.024	3.8	0.004	0.000	3.7	1.640	OK
Manhole (25)	FSR: 30 years: +40 %: 15 mins: Summer	127.9 00	126.5 50	126.60 0	0.050	9.1	0.014	0.000	8.9	6.576	OK
Manhole (26)	FSR: 30 years: +40 %: 15 mins: Summer	127.8 00	126.4 60	126.59 1	0.131	5.6	0.021	0.000	5.5	2.293	OK
Manhole (27)	FSR: 30 years: +40 %: 15 mins: Summer	127.5 00	126.3 95	126.59 1	0.196	5.5	0.031	0.000	5.3	2.073	Surcharged
Manhole (28)	FSR: 30 years: +40 %: 15 mins: Summer	128.0 00	126.3 00	126.59 1	0.291	1.1	0.082	0.000	0.8	1.067	Surcharged
Manhole (29)	FSR: 30 years: +40 %: 15 mins: Summer	127.2 70	126.1 70	126.19 2	0.022	0.8	0.004	0.000	0.8	1.013	OK
Manhole (30)	FSR: 30 years: +40 %: 15 mins: Summer	127.2 70	126.0 50	126.07 4	0.024	0.8	0.004	0.000	0.8	0.985	OK
Manhole (31)	FSR: 30 years: +40 %: 15 mins: Summer	126.9 50	125.9 90	126.00 0	0.010	0.8	0.001	0.000	0.8	0.974	OK
Manhole (32)	FSR: 30 years: +40 %: 15 mins: Summer	126.4 70	122.5 10	122.52 0	0.010	0.8	0.000	0.000	0.8	0.974	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



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)	Half Drain Down Time (mins)	Percentage Available (%)
Cellular Storage	FSR: 30 years: +40 %: 720 mins: Winter	126.884	126.884	0.534	0.534	5.5	64.878	0.000	0.000	1.2	84.789	505	33.717
Tank	FSR: 30 years: +40 %: 720 mins: Winter	126.884	126.884	0.084	0.084	1.1	1.754	0.000	0.000	1.1	18.344	23	79.115
Tank (1)	FSR: 30 years: +40 %: 720 mins: Winter	126.884	126.884	0.584	0.584	1.0	11.204	0.000	0.000	0.3	11.744	380	27.057
Tank (3)	FSR: 30 years: +40 %: 720 mins: Winter	126.884	126.884	0.284	0.284	1.4	10.208	0.000	0.000	1.4	20.842	106	52.742
Tank (2)	FSR: 30 years: +40 %: 720 mins: Winter	126.884	126.884	0.434	0.434	0.8	8.324	0.000	0.000	0.4	11.378	251	38.066

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 40% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			 Nimbus ENGINEERING CONSULTANTS

Status
OK
OK
OK
OK
OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
Manhole	Outlet	Pipe	Free Discharge
Manhole (1)	Outlet	Pipe (1)	Free Discharge
Manhole (2)	Outlet	Pipe (2)	Free Discharge
Manhole (3)	Outlet	Pipe (3)	Free Discharge
Manhole (4)	Outlet	Pipe (5)	Free Discharge
Manhole (5)	Outlet	Pipe (6)	Free Discharge
Manhole (6)	Outlet	Pipe (7)	Free Discharge
Manhole (7)	Outlet	Pipe (8)	Free Discharge
Manhole (8)	Outlet	Pipe (9)	Free Discharge
Manhole (9)	Outlet	Pipe (11)	Free Discharge
Manhole (10)	Outlet	Pipe (12)	Free Discharge
Manhole (11)	Outlet	Pipe (13)	Free Discharge
Manhole (12)	Outlet	Pipe (14)	Free Discharge
Manhole (13)	Outlet	Pipe (15)	Free Discharge
Manhole (14)	Outlet	Pipe (17)	Free Discharge
Manhole (15)	Outlet	Pipe (18)	Free Discharge
Manhole (16)	Outlet	Pipe (19)	Free Discharge
Manhole (17)	Outlet	Pipe (20)	Free Discharge
Manhole (18)	Outlet	Pipe (21)	Free Discharge
Manhole (19)	Outlet	Pipe (22)	Free Discharge
Manhole (20)	Outlet	Pipe (23)	Free Discharge
Manhole (21)	Outlet	Pipe (24)	Free Discharge
Manhole (22)	Outlet	Pipe (25)	Free Discharge
Manhole (23)	Outlet	Pipe (26)	Free Discharge
Manhole (24)	Outlet	Pipe (27)	Free Discharge
Manhole (25)	Outlet	Pipe (29)	Free Discharge
Manhole (26)	Outlet	Pipe (30)	Free Discharge
Manhole (27)	Outlet	Pipe (31)	Free Discharge
Manhole (28)	Outlet	Pipe (33)	Orifice
	Diameter (m)	0.028	
	Coefficient of Discharge	0.600	
	Invert Level (m)	126.300	
Manhole (29)	Outlet	Pipe (34)	Free Discharge
Manhole (30)	Outlet	Pipe (35)	Free Discharge
Manhole (31)	Outlet	Pipe (36)	Free Discharge

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank

Type : Tank

Dimensions

Exceedance Level (m)	128.000
Depth (m)	1.200
Base Level (m)	126.800
Freeboard (mm)	800
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	8.400

Depth (m)	Area (m²)	Volume (m³)
0.000	70.00	0.000
1.000	70.00	21.000

Advanced

Perimeter	Circular
Length (m)	9.789



Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)	127.500
Depth (m)	1.200
Base Level (m)	126.300
Freeboard (mm)	400
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	15.360

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.003

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank (3)

Type : Tank

Dimensions

Exceedance Level (m)	127.800
Depth (m)	1.200
Base Level (m)	126.600
Freeboard (mm)	600
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	21.600

Depth (m)	Area (m²)	Volume (m³)
0.000	120.00	0.000
1.000	120.00	36.000

Advanced

Perimeter	Circular
Length (m)	22.192



Tank (2)

Type : Tank

Dimensions

Exceedance Level (m)	127.650
Depth (m)	1.200
Base Level (m)	126.450
Freeboard (mm)	500
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	13.440

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.526

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Cellular Storage

Type : Cellular Storage

Dimensions

Exceedance Level (m)	127.750
Depth (m)	0.800
Base Level (m)	126.350
Number of Crates Long	32
Number of Crates Wide	8
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	97.880

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole	127.270 126.920	Diameter / Length: 0.450					Manhole
E:542342.598	0.350						
N:136640.010			{a} Pipe	Pipe	126.920	Diam/Width:150	Not Applicable
Manhole (1)	128.000 126.825	Diameter / Length: 0.450	{1} Pipe	Pipe	126.825	Diam/Width:150	Manhole
E:542345.529	1.175						
N:136628.441			{a} Pipe (1)	Pipe	126.825	Diam/Width:150	Not Applicable
Manhole (2)	127.270 126.890	Diameter / Length: 0.450					Manhole
E:542350.855	0.380						
N:136642.127			{a} Pipe (2)	Pipe	126.890	Diam/Width:150	Not Applicable
Manhole (3)	128.000 126.820	Diameter / Length: 0.450	{1} Pipe (2)	Pipe	126.820	Diam/Width:150	Manhole
E:542352.346	1.180						
N:136635.964			{a} Pipe (3)	Pipe	126.820	Diam/Width:150	Not Applicable
Manhole (4)	128.000 126.450	Diameter / Length: 0.600	{1} Pipe (4)	Pipe	126.450	Diam/Width:150	Manhole
E:542352.068	1.550						
N:136623.850			{a} Pipe (5)	Pipe	126.450	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (5)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542356.427	0.800						
N:136643.474			{a} Pipe (6)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (6)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (6)	Pipe	126.325	Diam/Width:150	Manhole
E:542359.328	1.175						
N:136631.544			{a} Pipe (7)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (7)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542367.229	0.800						
N:136645.971			{a} Pipe (8)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (8)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (8)	Pipe	126.325	Diam/Width:150	Manhole
E:542369.974	1.175						
N:136633.912			{a} Pipe (9)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (9)	127.500 126.250	Diameter / Length: 0.600	{1} Pipe (10)	Pipe	126.250	Diam/Width:150	Manhole
E:542365.757	1.250						
N:136627.141			{a} Pipe (11)	Pipe	126.250	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (10)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542370.040 N:136648.017	0.500						
			{a} Pipe (12)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (11)	127.650 126.465	Diameter / Length: 0.450	{1} Pipe (12)	Pipe	126.465	Diam/Width:150	Manhole
E:542372.448 N:136637.817	1.185						
			{a} Pipe (13)	Pipe	126.465	Diam/Width:150	Not Applicable
Manhole (12)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542379.153 N:136650.176	0.500						
			{a} Pipe (14)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (13)	127.650 126.470	Diameter / Length: 0.450	{1} Pipe (14)	Pipe	126.470	Diam/Width:150	Manhole
E:542381.720 N:136639.115	1.180						
			{a} Pipe (15)	Pipe	126.470	Diam/Width:150	Not Applicable
Manhole (14)	127.650 126.400	Diameter / Length: 0.600	{1} Pipe (16)	Pipe	126.400	Diam/Width:150	Manhole
E:542378.821 N:136630.313	1.250						
			{a} Pipe (17)	Pipe	126.400	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (15)	127.060 126.620	Diameter / Length: 0.450					Manhole
E:542381.828	0.440						
N:136652.188			{a} Pipe (18)	Pipe	126.620	Diam/Width:150	Not Applicable
Manhole (16)	127.440 126.510	Diameter / Length: 0.450	{1} Pipe (18)	Pipe	126.510	Diam/Width:150	Manhole
E:542384.562	0.930						
N:136641.198			{a} Pipe (19)	Pipe	126.510	Diam/Width:150	Not Applicable
Manhole (17)	127.060 126.685	Diameter / Length: 0.450					Manhole
E:542391.937	0.375						
N:136654.668			{a} Pipe (20)	Pipe	126.685	Diam/Width:150	Not Applicable
Manhole (18)	127.440 126.640	Diameter / Length: 0.450	{1} Pipe (20)	Pipe	126.640	Diam/Width:150	Manhole
E:542393.170	0.800						
N:136650.027			{a} Pipe (21)	Pipe	126.640	Diam/Width:150	Not Applicable
Manhole (19)	127.440 126.485	Diameter / Length: 0.450	{1} Pipe (19)	Pipe	126.485	Diam/Width:150	Manhole
E:542383.785	0.955		{2} Pipe (21)	Pipe	126.485	Diam/Width:150	
N:136639.014			{a} Pipe (22)	Pipe	126.485	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (20)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (22)	Pipe	126.395	Diam/Width: 150	Manhole
E:542385.948 N:136630.438	1.105						
			{a} Pipe (23)	Pipe	126.395	Diam/Width: 150	Not Applicable
Manhole (21)	128.000 126.600	Diameter / Length: 0.450					Manhole
E:542361.046 N:136609.815	1.400						
			{a} Pipe (24)	Pipe	126.600	Diam/Width: 150	Not Applicable
Manhole (22)	127.980 126.480	Diameter / Length: 0.600	{1} Pipe (24)	Pipe	126.480	Diam/Width: 150	Manhole
E:542360.222 N:136619.214	1.500						
			{a} Pipe (25)	Pipe	126.480	Diam/Width: 150	Not Applicable
Manhole (23)	128.000 126.820	Diameter / Length: 0.450					Manhole
E:542374.159 N:136605.961	1.180						
			{a} Pipe (26)	Pipe	126.820	Diam/Width: 150	Not Applicable
Manhole (24)	127.800 126.820	Diameter / Length: 0.450					Manhole
E:542380.833 N:136607.513	0.980						
			{a} Pipe (27)	Pipe	126.820	Diam/Width: 150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (25)	127.900 126.550	Diameter / Length: 0.600	{1} Pipe (28)	Pipe	126.550	Diam/Width:150	Manhole
E:542373.880 N:136621.422	1.350						
			{a} Pipe (29)	Pipe	126.550	Diam/Width:150	Not Applicable
Manhole (26)	127.800 126.460	Diameter / Length: 0.450					Manhole
E:542389.052 N:136622.992	1.340						
			{a} Pipe (30)	Pipe	126.460	Diam/Width:150	Not Applicable
Manhole (27)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (30)	Pipe	126.395	Diam/Width:150	Manhole
E:542386.452 N:136628.631	1.105						
			{a} Pipe (31)	Pipe	126.395	Diam/Width:150	Not Applicable
Manhole (28)	128.000 126.300	Diameter / Length: 0.600	{1} Pipe (32)	Pipe	126.300	Diam/Width:150	Manhole
E:542354.522 N:136630.536	1.700						
			{a} Pipe (33)	Pipe	126.300	Diam/Width:150	Not Applicable
Manhole (29)	127.270 126.170	Diameter / Length: 0.450	{1} Pipe (33)	Pipe	126.170	Diam/Width:150	Manhole
E:542354.385 N:136643.263	1.100						
			{a} Pipe (34)	Pipe	126.170	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (30)	127.270 126.050	Diameter / Length: 0.450	{1} Pipe (34)	Pipe	126.050	Diam/Width: 150	Manhole
E:542351.819 N:136654.517	1.220		{a} Pipe (35)	Pipe	126.050	Diam/Width: 150	Not Applicable
Manhole (31)	126.950 125.990	Diameter / Length: 0.300	{1} Pipe (35)	Pipe	125.990	Diam/Width: 150	Manhole
E:542350.017 N:136659.502	0.960		{a} Pipe (36)	Pipe	125.990	Diam/Width: 150	Not Applicable
Manhole (32)	126.470 122.510	Diameter / Length: 1.200	{1} Pipe (36)	Pipe	122.510	Diam/Width: 150	Manhole
E:542358.642 N:136668.897	3.960						Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Inflow Summary Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			 Nimbus ENGINEERING CONSULTANTS

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Cellular Storage		Time of Concentration	0.047	100	0	100	0.047
Catchment Area (1)	Manhole (21)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (2)	Manhole (22)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (3)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (4)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (5)	Manhole (26)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Manhole		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (7)	Manhole (2)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (8)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (9)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (10)	Manhole (5)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (11)	Manhole (7)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (12)	Tank (1)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (13)	Tank (1)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (14)	Manhole (10)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (15)	Tank (2)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (16)	Manhole (12)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (17)	Tank (2)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (18)	Manhole (15)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (19)	Manhole (16)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (20)	Manhole (17)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (21)	Manhole (18)		Time of Concentration	0.003	100	0	100	0.003
R	Manhole (24)		Time of Concentration	0.009	100	0	100	0.009
R (1)	Manhole (21)		Time of Concentration	0.009	100	0	100	0.009
R (2)	Manhole (23)		Time of Concentration	0.009	100	0	100	0.009
R (3)	Manhole (26)		Time of Concentration	0.009	100	0	100	0.009
R (4)	Manhole (15)		Time of Concentration	0.006	100	0	100	0.006
R (5)	Manhole (12)		Time of Concentration	0.006	100	0	100	0.006
R (6)	Manhole (17)		Time of Concentration	0.005	100	0	100	0.005
R (7)	Manhole (5)		Time of Concentration	0.007	100	0	100	0.007
R (8)	Manhole (10)		Time of Concentration	0.005	100	0	100	0.005
R (9)	Manhole (7)		Time of Concentration	0.007	100	0	100	0.007

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



R (10)	Manhole		Time of Concentration	0.007	100	0	100	0.007
R (11)	Manhole (2)		Time of Concentration	0.007	100	0	100	0.007
TOTAL		0.0		0.224				0.224

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Title: Rainfall Analysis Criteria	Kemp House: 124 City Road London EC1V 2NX		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR Type: FSR

Region	England And Wales
M5-60 (mm)	20.0
Ratio R	0.350
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
30.0	0.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Title: UK and Ireland Rural Runoff Calculator	Kemp House: 124 City Road London EC1V 2NX		


Nimbus
 ENGINEERING CONSULTANTS

ICP SUDS / IH 124

Details

Method	ICP SUDS
Area (ha)	0.224
SAAR (mm)	884.0
Soil	0.47
Region	Region 7
Urban	0.75
Return Period (years)	100

Results

Region	QBAR Rural (L/s)	QBAR Urban (L/s)	Q 100 (years) (L/s)	Q 1 (years) (L/s)	Q 30 (years) (L/s)	Q 100 (years) (L/s)
Region 7	1.4	3.5	7.1	3.0	6.0	7.1

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



Critical Storm Per Item: Rank By: Max. Flooded Volume

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
Manhole	FSR: 30 years: +0 %: 15 mins: Summer	127.2 70	126.9 20	126.96 3	0.043	2.7	0.007	0.000	2.6	1.152	OK
Manhole (1)	FSR: 30 years: +0 %: 15 mins: Summer	128.0 00	126.8 25	126.86 4	0.039	2.6	0.006	0.000	2.5	1.150	OK
Manhole (2)	FSR: 30 years: +0 %: 15 mins: Summer	127.2 70	126.8 90	126.93 4	0.044	3.1	0.007	0.000	3.1	1.359	OK
Manhole (3)	FSR: 30 years: +0 %: 15 mins: Summer	128.0 00	126.8 20	126.86 1	0.041	3.1	0.006	0.000	3.0	1.358	OK
Manhole (4)	FSR: 30 years: +0 %: 15 mins: Summer	128.0 00	126.4 50	126.52 4	0.074	7.3	0.021	0.000	7.2	3.754	OK
Manhole (5)	FSR: 30 years: +0 %: 15 mins: Summer	127.2 50	126.4 50	126.52 4	0.074	3.0	0.012	0.000	3.0	1.234	OK
Manhole (6)	FSR: 30 years: +0 %: 15 mins: Summer	127.5 00	126.3 25	126.52 5	0.200	3.0	0.032	0.000	2.5	1.006	Surcharged
Manhole (7)	FSR: 30 years: +0 %: 15 mins: Summer	127.2 50	126.4 50	126.52 4	0.074	3.1	0.012	0.000	3.1	1.266	OK
Manhole (8)	FSR: 30 years: +0 %: 15 mins: Summer	127.5 00	126.3 25	126.52 5	0.200	3.1	0.032	0.000	2.6	1.038	Surcharged
Manhole (9)	FSR: 30 years: +0 %: 15 mins: Summer	127.5 00	126.2 50	126.52 4	0.274	1.6	0.078	0.000	1.2	1.027	Surcharged
Manhole (10)	FSR: 30 years: +0 %: 15 mins: Summer	127.0 60	126.5 60	126.59 8	0.038	2.3	0.006	0.000	2.2	0.990	OK
Manhole (11)	FSR: 30 years: +0 %: 15 mins: Summer	127.6 50	126.4 65	126.52 5	0.060	2.2	0.009	0.000	2.1	0.921	OK
Manhole (12)	FSR: 30 years: +0 %: 15 mins: Summer	127.0 60	126.5 60	126.60 1	0.041	2.4	0.006	0.000	2.4	1.055	OK
Manhole (13)	FSR: 30 years: +0 %: 15 mins: Summer	127.6 50	126.4 70	126.52 5	0.055	2.4	0.009	0.000	2.3	0.992	OK
Manhole (14)	FSR: 30 years: +0 %: 15 mins: Summer	127.6 50	126.4 00	126.52 4	0.124	5.1	0.035	0.000	4.8	2.186	OK
Manhole (15)	FSR: 30 years: +0 %: 15 mins: Summer	127.0 60	126.6 20	126.65 8	0.038	2.5	0.006	0.000	2.4	1.065	OK
Manhole (16)	FSR: 30 years: +0 %: 15 mins: Summer	127.4 40	126.5 10	126.56 5	0.055	3.6	0.009	0.000	3.4	1.553	OK
Manhole (17)	FSR: 30 years: +0 %: 15 mins: Summer	127.0 60	126.6 85	126.72 6	0.041	2.4	0.006	0.000	2.4	1.050	OK
Manhole (18)	FSR: 30 years: +0 %: 15 mins: Summer	127.4 40	126.6 40	126.68 3	0.043	3.3	0.007	0.000	3.3	1.476	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



Manhole (19)	FSR: 30 years: +0 %: 15 mins: Summer	127.4 40	126.4 85	126.55 2	0.067	6.7	0.011	0.000	6.5	2.975	OK
Manhole (20)	FSR: 30 years: +0 %: 15 mins: Summer	127.5 00	126.3 95	126.52 4	0.129	6.5	0.021	0.000	6.2	2.825	OK
Manhole (21)	FSR: 30 years: +0 %: 15 mins: Summer	128.0 00	126.6 00	126.65 0	0.050	4.3	0.008	0.000	4.3	1.883	OK
Manhole (22)	FSR: 30 years: +0 %: 15 mins: Summer	127.9 80	126.4 80	126.52 4	0.044	6.1	0.013	0.000	6.0	2.617	OK
Manhole (23)	FSR: 30 years: +0 %: 15 mins: Summer	128.0 00	126.8 20	126.83 9	0.019	2.8	0.003	0.000	2.7	1.196	OK
Manhole (24)	FSR: 30 years: +0 %: 15 mins: Summer	127.8 00	126.8 20	126.83 9	0.019	2.7	0.003	0.000	2.7	1.169	OK
Manhole (25)	FSR: 30 years: +0 %: 15 mins: Summer	127.9 00	126.5 50	126.58 7	0.037	6.0	0.011	0.000	6.1	4.601	OK
Manhole (26)	FSR: 30 years: +0 %: 15 mins: Summer	127.8 00	126.4 60	126.52 5	0.065	4.0	0.010	0.000	3.9	1.677	OK
Manhole (27)	FSR: 30 years: +0 %: 15 mins: Summer	127.5 00	126.3 95	126.52 5	0.130	3.9	0.021	0.000	3.8	1.533	OK
Manhole (28)	FSR: 30 years: +0 %: 15 mins: Summer	128.0 00	126.3 00	126.52 4	0.224	0.9	0.063	0.000	0.7	0.912	Surcharged
Manhole (29)	FSR: 30 years: +0 %: 15 mins: Summer	127.2 70	126.1 70	126.19 1	0.021	0.7	0.003	0.000	0.7	0.862	OK
Manhole (30)	FSR: 30 years: +0 %: 15 mins: Summer	127.2 70	126.0 50	126.07 2	0.022	0.7	0.004	0.000	0.7	0.836	OK
Manhole (31)	FSR: 30 years: +0 %: 15 mins: Summer	126.9 50	125.9 90	126.00 0	0.010	0.7	0.001	0.000	0.7	0.825	OK
Manhole (32)	FSR: 30 years: +0 %: 15 mins: Summer	126.4 70	122.5 10	122.51 9	0.009	0.7	0.000	0.000	0.7	0.825	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



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)	Half Drain Down Time (mins)	Percentage Available (%)
Cellular Storage	FSR: 30 years: +0 %: 600 mins: Winter	126.734	126.734	0.384	0.384	5.0	46.709	0.000	0.000	1.0	60.522	421	52.279
Tank	FSR: 30 years: +0 %: 15 mins: Summer	126.832	126.832	0.032	0.032	8.7	0.672	0.000	0.000	7.3	3.841	2	92.005
Tank (1)	FSR: 30 years: +0 %: 600 mins: Winter	126.734	126.734	0.434	0.434	0.8	8.335	0.000	0.000	0.3	7.932	360	45.734
Tank (3)	FSR: 30 years: +0 %: 600 mins: Winter	126.734	126.734	0.134	0.134	1.1	4.829	0.000	0.000	1.3	16.003	59	77.645
Tank (2)	FSR: 30 years: +0 %: 600 mins: Winter	126.734	126.734	0.284	0.284	0.7	5.455	0.000	0.000	0.5	8.576	202	59.411

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:30 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Status
OK
OK
OK
OK
OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		


Nimbus
 ENGINEERING CONSULTANTS

Outlets			
Junction	Outlet Name	Outgoing Connection	Outlet Type
Manhole	Outlet	Pipe	Free Discharge
Manhole (1)	Outlet	Pipe (1)	Free Discharge
Manhole (2)	Outlet	Pipe (2)	Free Discharge
Manhole (3)	Outlet	Pipe (3)	Free Discharge
Manhole (4)	Outlet	Pipe (5)	Free Discharge
Manhole (5)	Outlet	Pipe (6)	Free Discharge
Manhole (6)	Outlet	Pipe (7)	Free Discharge
Manhole (7)	Outlet	Pipe (8)	Free Discharge
Manhole (8)	Outlet	Pipe (9)	Free Discharge
Manhole (9)	Outlet	Pipe (11)	Free Discharge
Manhole (10)	Outlet	Pipe (12)	Free Discharge
Manhole (11)	Outlet	Pipe (13)	Free Discharge
Manhole (12)	Outlet	Pipe (14)	Free Discharge
Manhole (13)	Outlet	Pipe (15)	Free Discharge
Manhole (14)	Outlet	Pipe (17)	Free Discharge
Manhole (15)	Outlet	Pipe (18)	Free Discharge
Manhole (16)	Outlet	Pipe (19)	Free Discharge
Manhole (17)	Outlet	Pipe (20)	Free Discharge
Manhole (18)	Outlet	Pipe (21)	Free Discharge
Manhole (19)	Outlet	Pipe (22)	Free Discharge
Manhole (20)	Outlet	Pipe (23)	Free Discharge
Manhole (21)	Outlet	Pipe (24)	Free Discharge
Manhole (22)	Outlet	Pipe (25)	Free Discharge
Manhole (23)	Outlet	Pipe (26)	Free Discharge
Manhole (24)	Outlet	Pipe (27)	Free Discharge
Manhole (25)	Outlet	Pipe (29)	Free Discharge
Manhole (26)	Outlet	Pipe (30)	Free Discharge
Manhole (27)	Outlet	Pipe (31)	Free Discharge
Manhole (28)	Outlet	Pipe (33)	Orifice
	Diameter (m)	0.028	
	Coefficient of Discharge	0.600	
	Invert Level (m)	126.300	
Manhole (29)	Outlet	Pipe (34)	Free Discharge
Manhole (30)	Outlet	Pipe (35)	Free Discharge
Manhole (31)	Outlet	Pipe (36)	Free Discharge

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank

Type : Tank

Dimensions

Exceedance Level (m)	128.000
Depth (m)	1.200
Base Level (m)	126.800
Freeboard (mm)	800
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	8.400

Depth (m)	Area (m²)	Volume (m³)
0.000	70.00	0.000
1.000	70.00	21.000

Advanced

Perimeter	Circular
Length (m)	9.789



Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)	127.500
Depth (m)	1.200
Base Level (m)	126.300
Freeboard (mm)	400
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	15.360

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.003

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Tank (3)

Type : Tank

Dimensions

Exceedance Level (m)	127.800
Depth (m)	1.200
Base Level (m)	126.600
Freeboard (mm)	600
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	21.600

Depth (m)	Area (m²)	Volume (m³)
0.000	120.00	0.000
1.000	120.00	36.000

Advanced

Perimeter	Circular
Length (m)	22.192



Tank (2)

Type : Tank

Dimensions

Exceedance Level (m)	127.650
Depth (m)	1.200
Base Level (m)	126.450
Freeboard (mm)	500
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	13.440

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
1.000	64.00	19.200

Advanced

Perimeter	Circular
Length (m)	9.526

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Cellular Storage

Type : Cellular Storage

Dimensions

Exceedance Level (m)	127.750
Depth (m)	0.800
Base Level (m)	126.350
Number of Crates Long	32
Number of Crates Wide	8
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	97.880

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole	127.270 126.920	Diameter / Length: 0.450					Manhole
E:542342.598	0.350						
N:136640.010			{a} Pipe	Pipe	126.920	Diam/Width:150	Not Applicable
Manhole (1)	128.000 126.825	Diameter / Length: 0.450	{1} Pipe	Pipe	126.825	Diam/Width:150	Manhole
E:542345.529	1.175						
N:136628.441			{a} Pipe (1)	Pipe	126.825	Diam/Width:150	Not Applicable
Manhole (2)	127.270 126.890	Diameter / Length: 0.450					Manhole
E:542350.855	0.380						
N:136642.127			{a} Pipe (2)	Pipe	126.890	Diam/Width:150	Not Applicable
Manhole (3)	128.000 126.820	Diameter / Length: 0.450	{1} Pipe (2)	Pipe	126.820	Diam/Width:150	Manhole
E:542352.346	1.180						
N:136635.964			{a} Pipe (3)	Pipe	126.820	Diam/Width:150	Not Applicable
Manhole (4)	128.000 126.450	Diameter / Length: 0.600	{1} Pipe (4)	Pipe	126.450	Diam/Width:150	Manhole
E:542352.068	1.550						
N:136623.850			{a} Pipe (5)	Pipe	126.450	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			 Nimbus ENGINEERING CONSULTANTS

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (5)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542356.427	0.800						
N:136643.474			{a} Pipe (6)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (6)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (6)	Pipe	126.325	Diam/Width:150	Manhole
E:542359.328	1.175						
N:136631.544			{a} Pipe (7)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (7)	127.250 126.450	Diameter / Length: 0.450					Manhole
E:542367.229	0.800						
N:136645.971			{a} Pipe (8)	Pipe	126.450	Diam/Width:150	Not Applicable
Manhole (8)	127.500 126.325	Diameter / Length: 0.450	{1} Pipe (8)	Pipe	126.325	Diam/Width:150	Manhole
E:542369.974	1.175						
N:136633.912			{a} Pipe (9)	Pipe	126.325	Diam/Width:150	Not Applicable
Manhole (9)	127.500 126.250	Diameter / Length: 0.600	{1} Pipe (10)	Pipe	126.250	Diam/Width:150	Manhole
E:542365.757	1.250						
N:136627.141			{a} Pipe (11)	Pipe	126.250	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (10)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542370.040 N:136648.017	0.500						
			{a} Pipe (12)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (11)	127.650 126.465	Diameter / Length: 0.450	{1} Pipe (12)	Pipe	126.465	Diam/Width:150	Manhole
E:542372.448 N:136637.817	1.185						
			{a} Pipe (13)	Pipe	126.465	Diam/Width:150	Not Applicable
Manhole (12)	127.060 126.560	Diameter / Length: 0.450					Manhole
E:542379.153 N:136650.176	0.500						
			{a} Pipe (14)	Pipe	126.560	Diam/Width:150	Not Applicable
Manhole (13)	127.650 126.470	Diameter / Length: 0.450	{1} Pipe (14)	Pipe	126.470	Diam/Width:150	Manhole
E:542381.720 N:136639.115	1.180						
			{a} Pipe (15)	Pipe	126.470	Diam/Width:150	Not Applicable
Manhole (14)	127.650 126.400	Diameter / Length: 0.600	{1} Pipe (16)	Pipe	126.400	Diam/Width:150	Manhole
E:542378.821 N:136630.313	1.250						
			{a} Pipe (17)	Pipe	126.400	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (15)	127.060 126.620	Diameter / Length: 0.450					Manhole
E:542381.828	0.440						
N:136652.188			{a} Pipe (18)	Pipe	126.620	Diam/Width:150	Not Applicable
Manhole (16)	127.440 126.510	Diameter / Length: 0.450	{1} Pipe (18)	Pipe	126.510	Diam/Width:150	Manhole
E:542384.562	0.930						
N:136641.198			{a} Pipe (19)	Pipe	126.510	Diam/Width:150	Not Applicable
Manhole (17)	127.060 126.685	Diameter / Length: 0.450					Manhole
E:542391.937	0.375						
N:136654.668			{a} Pipe (20)	Pipe	126.685	Diam/Width:150	Not Applicable
Manhole (18)	127.440 126.640	Diameter / Length: 0.450	{1} Pipe (20)	Pipe	126.640	Diam/Width:150	Manhole
E:542393.170	0.800						
N:136650.027			{a} Pipe (21)	Pipe	126.640	Diam/Width:150	Not Applicable
Manhole (19)	127.440 126.485	Diameter / Length: 0.450	{1} Pipe (19)	Pipe	126.485	Diam/Width:150	Manhole
E:542383.785	0.955		{2} Pipe (21)	Pipe	126.485	Diam/Width:150	
N:136639.014			{a} Pipe (22)	Pipe	126.485	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			 Nimbus ENGINEERING CONSULTANTS

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (20)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (22)	Pipe	126.395	Diam/Width: 150	Manhole
E:542385.948 N:136630.438	1.105						
			{a} Pipe (23)	Pipe	126.395	Diam/Width: 150	Not Applicable
Manhole (21)	128.000 126.600	Diameter / Length: 0.450					Manhole
E:542361.046 N:136609.815	1.400						
			{a} Pipe (24)	Pipe	126.600	Diam/Width: 150	Not Applicable
Manhole (22)	127.980 126.480	Diameter / Length: 0.600	{1} Pipe (24)	Pipe	126.480	Diam/Width: 150	Manhole
E:542360.222 N:136619.214	1.500						
			{a} Pipe (25)	Pipe	126.480	Diam/Width: 150	Not Applicable
Manhole (23)	128.000 126.820	Diameter / Length: 0.450					Manhole
E:542374.159 N:136605.961	1.180						
			{a} Pipe (26)	Pipe	126.820	Diam/Width: 150	Not Applicable
Manhole (24)	127.800 126.820	Diameter / Length: 0.450					Manhole
E:542380.833 N:136607.513	0.980						
			{a} Pipe (27)	Pipe	126.820	Diam/Width: 150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (25)	127.900 126.550	Diameter / Length: 0.600	{1} Pipe (28)	Pipe	126.550	Diam/Width:150	Manhole
E:542373.880	1.350						
N:136621.422			{a} Pipe (29)	Pipe	126.550	Diam/Width:150	Not Applicable
Manhole (26)	127.800 126.460	Diameter / Length: 0.450					Manhole
E:542389.052	1.340						
N:136622.992			{a} Pipe (30)	Pipe	126.460	Diam/Width:150	Not Applicable
Manhole (27)	127.500 126.395	Diameter / Length: 0.450	{1} Pipe (30)	Pipe	126.395	Diam/Width:150	Manhole
E:542386.452	1.105						
N:136628.631			{a} Pipe (31)	Pipe	126.395	Diam/Width:150	Not Applicable
Manhole (28)	128.000 126.300	Diameter / Length: 0.600	{1} Pipe (32)	Pipe	126.300	Diam/Width:150	Manhole
E:542354.522	1.700						
N:136630.536			{a} Pipe (33)	Pipe	126.300	Diam/Width:150	Not Applicable
Manhole (29)	127.270 126.170	Diameter / Length: 0.450	{1} Pipe (33)	Pipe	126.170	Diam/Width:150	Manhole
E:542354.385	1.100						
N:136643.263			{a} Pipe (34)	Pipe	126.170	Diam/Width:150	Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Kemp House: 124 City Road London EC1V 2NX			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (30)	127.270 126.050	Diameter / Length: 0.450	{1} Pipe (34)	Pipe	126.050	Diam/Width: 150	Manhole
E:542351.819 N:136654.517	1.220						
			{a} Pipe (35)	Pipe	126.050	Diam/Width: 150	Not Applicable
Manhole (31)	126.950 125.990	Diameter / Length: 0.300	{1} Pipe (35)	Pipe	125.990	Diam/Width: 150	Manhole
E:542350.017 N:136659.502	0.960						
			{a} Pipe (36)	Pipe	125.990	Diam/Width: 150	Not Applicable
Manhole (32)	126.470 122.510	Diameter / Length: 1.200	{1} Pipe (36)	Pipe	122.510	Diam/Width: 150	Manhole
E:542358.642 N:136668.897	3.960						
							Not Applicable

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Cellular Storage		Time of Concentration	0.047	100	0	100	0.047
Catchment Area (1)	Manhole (21)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (2)	Manhole (22)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (3)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (4)	Tank (3)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (5)	Manhole (26)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Manhole		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (7)	Manhole (2)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (8)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (9)	Tank		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (10)	Manhole (5)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (11)	Manhole (7)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (12)	Tank (1)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (13)	Tank (1)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (14)	Manhole (10)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (15)	Tank (2)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (16)	Manhole (12)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (17)	Tank (2)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (18)	Manhole (15)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (19)	Manhole (16)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (20)	Manhole (17)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (21)	Manhole (18)		Time of Concentration	0.003	100	0	100	0.003
R	Manhole (24)		Time of Concentration	0.009	100	0	100	0.009
R (1)	Manhole (21)		Time of Concentration	0.009	100	0	100	0.009
R (2)	Manhole (23)		Time of Concentration	0.009	100	0	100	0.009
R (3)	Manhole (26)		Time of Concentration	0.009	100	0	100	0.009
R (4)	Manhole (15)		Time of Concentration	0.006	100	0	100	0.006
R (5)	Manhole (12)		Time of Concentration	0.006	100	0	100	0.006
R (6)	Manhole (17)		Time of Concentration	0.005	100	0	100	0.005
R (7)	Manhole (5)		Time of Concentration	0.007	100	0	100	0.007
R (8)	Manhole (10)		Time of Concentration	0.005	100	0	100	0.005
R (9)	Manhole (7)		Time of Concentration	0.007	100	0	100	0.007

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



R (10)	Manhole		Time of Concentration	0.007	100	0	100	0.007
R (11)	Manhole (2)		Time of Concentration	0.007	100	0	100	0.007
TOTAL		0.0		0.224				0.224

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Title: Rainfall Analysis Criteria	Kemp House: 124 City Road London EC1V 2NX		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	20.0
Ratio R	0.350
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
1.0	0.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Title: UK and Ireland Rural Runoff Calculator	Kemp House: 124 City Road London EC1V 2NX		


Nimbus
ENGINEERING CONSULTANTS

ICP SUDS / IH 124

Details

Method	ICP SUDS
Area (ha)	0.224
SAAR (mm)	884.0
Soil	0.47
Region	Region 7
Urban	0.75
Return Period (years)	100

Results

Region	QBAR Rural (L/s)	QBAR Urban (L/s)	Q 100 (years) (L/s)	Q 1 (years) (L/s)	Q 30 (years) (L/s)	Q 100 (years) (L/s)
Region 7	1.4	3.5	7.1	3.0	6.0	7.1

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by:	Checked by:	Approved By:
	M.HAM		
Report Details: Type: Junctions Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Critical Storm Per Item: Rank By: Max. Flooded Volume

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
Manhole	FSR: 1 years: +0 %: 15 mins: Summer	127.2 70	126.9 20	126.94 7	0.027	1.1	0.004	0.000	1.0	0.466	OK
Manhole (1)	FSR: 1 years: +0 %: 15 mins: Summer	128.0 00	126.8 25	126.84 9	0.024	1.0	0.004	0.000	1.0	0.464	OK
Manhole (2)	FSR: 1 years: +0 %: 15 mins: Summer	127.2 70	126.8 90	126.91 7	0.027	1.3	0.004	0.000	1.2	0.556	OK
Manhole (3)	FSR: 1 years: +0 %: 15 mins: Summer	128.0 00	126.8 20	126.84 5	0.025	1.2	0.004	0.000	1.2	0.554	OK
Manhole (4)	FSR: 1 years: +0 %: 15 mins: Summer	128.0 00	126.4 50	126.47 5	0.025	2.6	0.007	0.000	2.5	1.511	OK
Manhole (5)	FSR: 1 years: +0 %: 15 mins: Summer	127.2 50	126.4 50	126.47 7	0.027	1.2	0.004	0.000	1.2	0.528	OK
Manhole (6)	FSR: 1 years: +0 %: 15 mins: Summer	127.5 00	126.3 25	126.41 8	0.093	1.2	0.015	0.000	1.2	0.420	OK
Manhole (7)	FSR: 1 years: +0 %: 15 mins: Summer	127.2 50	126.4 50	126.47 7	0.027	1.3	0.004	0.000	1.2	0.546	OK
Manhole (8)	FSR: 1 years: +0 %: 15 mins: Summer	127.5 00	126.3 25	126.41 8	0.093	1.2	0.015	0.000	1.2	0.437	OK
Manhole (9)	FSR: 1 years: +0 %: 15 mins: Summer	127.5 00	126.2 50	126.41 8	0.168	2.8	0.048	0.000	0.0	0.872	Surcharged
Manhole (10)	FSR: 1 years: +0 %: 15 mins: Summer	127.0 60	126.5 60	126.58 4	0.024	0.9	0.004	0.000	0.9	0.406	OK
Manhole (11)	FSR: 1 years: +0 %: 15 mins: Summer	127.6 50	126.4 65	126.48 9	0.024	0.9	0.004	0.000	0.8	0.404	OK
Manhole (12)	FSR: 1 years: +0 %: 15 mins: Summer	127.0 60	126.5 60	126.58 6	0.026	1.0	0.004	0.000	1.0	0.430	OK
Manhole (13)	FSR: 1 years: +0 %: 15 mins: Summer	127.6 50	126.4 70	126.49 4	0.024	1.0	0.004	0.000	0.9	0.428	OK
Manhole (14)	FSR: 1 years: +0 %: 15 mins: Summer	127.6 50	126.4 00	126.42 8	0.028	1.8	0.008	0.000	1.9	1.290	OK
Manhole (15)	FSR: 1 years: +0 %: 15 mins: Summer	127.0 60	126.6 20	126.64 4	0.024	1.0	0.004	0.000	1.0	0.439	OK
Manhole (16)	FSR: 1 years: +0 %: 15 mins: Summer	127.4 40	126.5 10	126.54 1	0.031	1.4	0.005	0.000	1.4	0.638	OK
Manhole (17)	FSR: 1 years: +0 %: 15 mins: Summer	127.0 60	126.6 85	126.71 0	0.025	1.0	0.004	0.000	0.9	0.427	OK
Manhole (18)	FSR: 1 years: +0 %: 15 mins: Summer	127.4 40	126.6 40	126.66 7	0.027	1.3	0.004	0.000	1.3	0.599	OK
Manhole (19)	FSR: 1 years: +0 %: 15 mins: Summer	127.4 40	126.4 85	126.52 5	0.040	2.7	0.006	0.000	2.6	1.233	OK
Manhole (20)	FSR: 1 years: +0 %: 15 mins: Summer	127.5 00	126.3 95	126.43 5	0.040	2.6	0.006	0.000	2.5	1.205	OK
Manhole (21)	FSR: 1 years: +0 %: 15 mins: Summer	128.0 00	126.6 00	126.63 1	0.031	1.8	0.005	0.000	1.7	0.763	OK
Manhole (22)	FSR: 1 years: +0 %: 15 mins: Summer	127.9 80	126.4 80	126.50 5	0.025	2.5	0.007	0.000	2.4	1.079	OK
Manhole (23)	FSR: 1 years: +0 %: 15 mins: Summer	128.0 00	126.8 20	126.83 2	0.012	1.1	0.002	0.000	1.1	0.488	OK
Manhole (24)	FSR: 1 years: +0 %: 15 mins: Summer	127.8 00	126.8 20	126.83 2	0.012	1.1	0.002	0.000	1.1	0.473	OK
Manhole (25)	FSR: 1 years: +0 %: 15 mins: Summer	127.9 00	126.5 50	126.57 2	0.022	2.3	0.006	0.000	2.3	1.688	OK
Manhole (26)	FSR: 1 years: +0 %: 15 mins: Summer	127.8 00	126.4 60	126.49 1	0.031	1.6	0.005	0.000	1.6	0.711	OK
Manhole (27)	FSR: 1 years: +0 %: 15 mins: Summer	127.5 00	126.3 95	126.42 6	0.031	1.6	0.005	0.000	1.5	0.685	OK
Manhole (28)	FSR: 1 years: +0 %: 15 mins: Summer	128.0 00	126.3 00	126.41 8	0.118	0.7	0.033	0.000	0.5	0.595	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025		
		Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX		



Manhole (29)	FSR: 1 years: +0 %: 15 mins: Summer	127.2 70	126.1 70	126.18 8	0.018	0.5	0.003	0.000	0.5	0.554	OK
Manhole (30)	FSR: 1 years: +0 %: 15 mins: Summer	127.2 70	126.0 50	126.06 9	0.019	0.5	0.003	0.000	0.5	0.532	OK
Manhole (31)	FSR: 1 years: +0 %: 15 mins: Summer	126.9 50	125.9 90	125.99 8	0.008	0.5	0.001	0.000	0.5	0.522	OK
Manhole (32)	FSR: 1 years: +0 %: 15 mins: Summer	126.4 70	122.5 10	122.51 8	0.008	0.5	0.000	0.000	0.5	0.522	OK

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate		Date: 13/11/2025	
		Designed by: M.HAM	Checked by:
		Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Kemp House: 124 City Road London EC1V 2NX	



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)	Half Drain Down Time (mins)	Percentage Available (%)
Cellular Storage	FSR: 1 years: +0 %: 720 mins: Summer	126.531	126.531	0.181	0.181	3.7	21.975	0.000	0.000	0.7	46.143	288	77.549
Tank	FSR: 1 years: +0 %: 15 mins: Summer	126.818	126.818	0.018	0.018	3.5	0.373	0.000	0.000	2.6	1.515	3	95.563
Tank (1)	FSR: 1 years: +0 %: 720 mins: Summer	126.531	126.531	0.231	0.231	0.5	4.430	0.000	0.000	0.2	6.112	341	71.160
Tank (3)	FSR: 1 years: +0 %: 30 mins: Summer	126.630	126.630	0.030	0.030	3.2	1.077	0.000	0.000	2.5	2.546	10	95.016
Tank (2)	FSR: 1 years: +0 %: 720 mins: Summer	126.531	126.531	0.081	0.081	0.5	1.550	0.000	0.000	0.5	5.500	52	88.469

Land South of Hammerwood Road, Ashurstwood, West Sussex, Erection of 12 Dwellings 1:1 Years Storm Event + 0% CC - FSR 1.4 l/s Restricted Discharge Rate	Date: 13/11/2025		
	Designed by: M.HAM	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Kemp House: 124 City Road London EC1V 2NX		



Status
OK
OK
OK
OK
OK

APPENDIX C – BRE365 PERCOLATION TEST REPORT

BRE365 PERCOLATION TEST REPORT

FOR LAND SOUTH OF

HAMMERWOOD ROAD, ASHURST

WOOD, WEST SUSSEX, RH19 3RX

DOCUMENT NUMBER: C3655-R2-REV-A

Prepared by:



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2. TRIAL PIT 1 4

 2.1 TEST ONE..... 5

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 2.3 TEST THREE..... 5

 2.4 INFILTRATION RESULTS 6

3 CONCLUSION 8

APPENDICES

APPENDIX A – TRIAL PIT LOCATION PLAN

APPENDIX B – BRE365 PERCOLATION TEST RESULTS

APPENDIX C – TRIAL PIT LOGS

1. INTRODUCTION

Nimbus Engineering Consultants Limited have been instructed to carry out a BRE365 Infiltration test for Land South of Hammerwood Road, Ashurst Wood, West Sussex, RH19 3RX.

The BRE365 Infiltration test was carried out on the 1st of October, 2025 in one trial pit.

The test was carried out to the BRE365 Digest, in order to calculate the infiltration rate for the proposed site, to treat and deal with the surface water runoff. The trial pit location can be found in Appendix A.

2. TRIAL PIT 1

A test pit of dimensions 300mm by 1000mm by 1000mm deep was excavated in a suitable location. The test pit location can be found in Appendix A.

The excavated ground was described as:

- Approximately 200mm of woodland soil
- Approximately 300mm of fine sand
- Approximately 300mm of fine sand (50%) and aggregate (50%)
- Approximately 200mm of fine sand (20%) and aggregate (80%)

2.1 TEST ONE

Water was added to the pit at a consistent rate and the following was measured:

- Water drained from the 100% full level to the 75% level in approximately 67 minutes
- Water did not drain to the 25% level after 300 minutes.

Therefore the 25% full minus 75% full time was unable to be calculated, which is the time required in order to calculate the BRE365 Infiltration rate.

2.2. TEST TWO

N/A as the test was cancelled.

2.3 TEST THREE

N/A as the test was cancelled.

2.4 INFILTRATION RESULTS

An infiltration rate was unable to be calculated, demonstrating the unfeasibility of infiltration at this site.



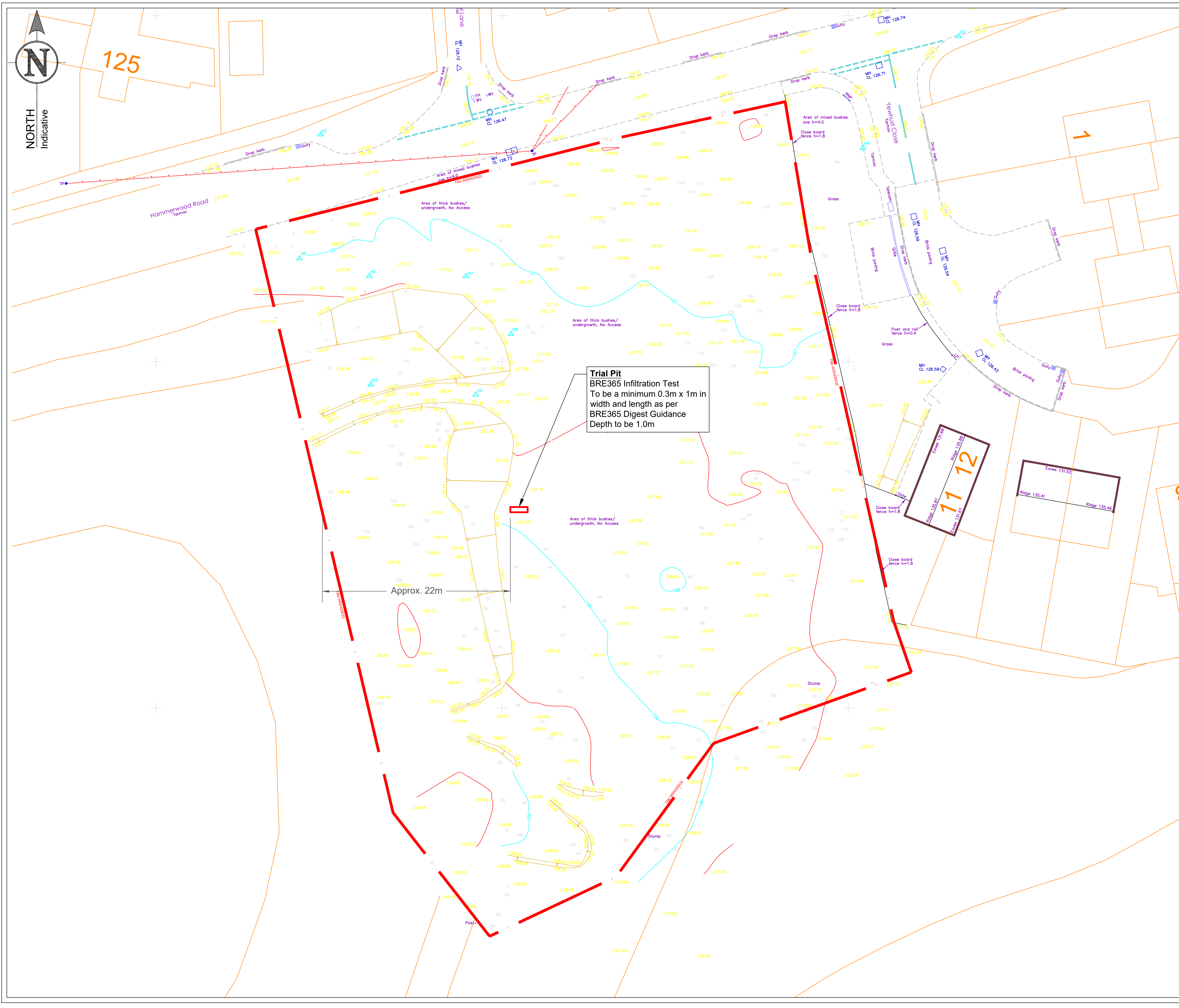
Figure 1 – Trial Pit 1

3 CONCLUSION

One test pit was excavated at the site, in order to carry out a BRE365 Infiltration test around the site.

The test sheets can be found in Appendix B. The results show that the BRE365 Test failed, demonstrating the unfeasibility of infiltration on site.

APPENDIX A – TRIAL PIT LOCATION PLAN



DRAWING TO BE PRINTED IN COLOUR.

KEY:

- Proposed Trial Pit Location
- Proposed Site Boundary

NOT FOR CONSTRUCTION

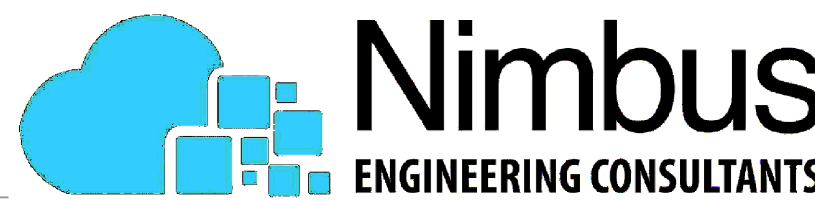
IMPORTANT
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REV	DATE	DRAWN	DESCRIPTION	CHECK	APPR.
A	30-09-25	A.L	For Information.	S.L	S.L

Land south of Hammerwood Road, Ashurst Wood, West Sussex, RH19 3RX

Trial Pit Location Plan

Virtue Land LTD



S.L	30-09-25	S.L	30-09-25
A.L	1:200	C3655-04	A
30-09-25	A1		

APPENDIX B – BRE365 PERCOLATION TEST RESULTS

PERCOLATION TEST

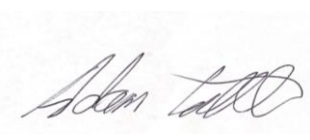
Address: - Land south of Hammerwood Road, Ashurst Wood, West Sussex, RH19 3RX
Client name and contact number: Virtue Land LTD
Date and Time agreed to carry out test: 01/10/25
Completed by: Adam Lockett

Following questions to be completed:

	08.30
Weather Conditions	Dry all day
Ground Removed	0.0 – 0.2 Woodland Soil 0.2 – 0.5 Fine Sand 0.5 – 0.8 50% Fine Sand 50% Aggregate 0.8 – 1 80% Aggregate 20% Fine Sand

Photographs of the following must be included:

- The area prior to the pit being dug
- The test pit when empty
- The test pit when full
- During the test
- The area once the test has finished
- The area when the pit has been filled back in

Signed:  _____

Name: Adam Lockett

Thank you - Nimbus Engineering Consultants Ltd.

CHECK SHEET

1. Please specify the size of the soakaway that you are proposing to use:

Width (m) Length (m) Depth (m)

2. Please specify the area that is to be drained to the soakaway

3. Please specify the size of the trial pit:

Width 0.3m Length 1m Depth 1m

4. Please specify the proposed invert level of the drain:

5. Below is a table for you to input the data (times) gathered from the Soil Infiltration Rate tests:

Test was canceled after 300 minutes as waterline only dropped 50mm in 240 minutes

Test Number	75%	25%	25% - 75%
1	67	NA	NA
2	NA	NA	NA
3	NA	NA	NA

*To be filled in when info arrives.

Key:

75%: The time taken in minutes for the water level to fall to 75% full.

25%: The time taken in minutes for the water level to fall to 25% full.

25% - 75%: The 25% time the 75% time. (This will give the time for the water level to fall from 75% full to 25% full).

Name: Adam Lockett

Signature



Date: 01.10.25

APPENDIX C – TRIAL PIT LOGS

Page 1 of 1

APPENDIX D – WATER AUTHORITY ASSET PLAN

