

Appendix C – LPA Correspondence

Dan Percival

From: Natalie Biddulph [REDACTED] on behalf of Flood Risk Management [REDACTED]
Sent: 24 October 2025 14:37
To: [REDACTED]
Cc: Flood Risk Management
Subject: RE: WSCC-758729149 Contact the Council online

Good Afternoon,

We have been passed your recent enquiry (copy below) regarding the site located at Shermanbury Road, Partridge Green, Horsham.

- Details of any flood defences in the immediate area, including their extent, crest levels (and datum), assumed level of standard, construction and maintenance regime, as well as any other structures which may influence the local hydraulics. – **None on record**
- Records of any historic flood events and potential sources of flooding from rivers, land drainage, groundwater, foul and surface water sewers on site and in the area. – **No flood events on record. We would caveat to say that having no record does not mean flooding has never occurred, only that we are not aware. Please also consult the latest EA modelling (NaFRA2).**
- Any restrictions applied to ordinary watercourses and sewers in the area. – **None on record**
- Highway drainage restrict – **None on record (we are aware WSCC Highways have also been provided with this request).**

Hopefully this assists you.

Kind Regards

Natalie Biddulph – on behalf of the Lead Local Flood Authority

Flood Risk Management Officer | Planning Services
West Sussex County Council, Ground Floor, Northleigh, County Hall, Chichester PO19 1RH
Email: FRM@westsussex.gov.uk | Web: www.westsussex.gov.uk

Title: Miss

First name: alaikah

Last name: yusaf

Is this enquiry: on behalf of someone else

Do you require a response to your enquiry?: Yes

Email address: [REDACTED]

Have you already contacted us about this enquiry?: No

Please tell us the details of your enquiry: LK Consult Ltd. has been commissioned to undertake a Flood Risk Assessment (FRA) and Sustainable Drainage Systems (SuDS) Strategy, for a site located at Shermanbury Road, Partridge Green, Horsham. NGR: 519835, 119681.

The area of interest appears to be within Flood Zone 1.

The site location is attached to this email.

To complete the FRA and SuDS Strategy, we would be grateful if you could supply us with the following, if available, for the vicinity of the site:

- Details of any flood defences in the immediate area, including their extent, crest levels (and datum), assumed level of standard, construction and maintenance regime, as well as any other structures which may influence the local hydraulics.
- Records of any historic flood events and potential sources of flooding from rivers, land drainage, groundwater, foul and surface water sewers on site and in the area.
- Any restrictions applied to ordinary watercourses and sewers in the area.
- Highway drainage restrict

LEGAL DISCLAIMER

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Appendix D – Public Sewer Records



(c) Crown copyright and database rights 2026 Ordnance Survey AC0000808122 Date: 08/04/26 Scale: 1:1250 Map Centre: 519836,119474 Data updated: 20/03/26 Our Ref: 2082968 - 1

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2026 Ordnance Survey AC0000808122. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

cl@thelkgroup.com	
Shermanbury Road	



Appendix E – Catchment Areas



KEY

Catchment 1 = 1.90ha

Catchment 2 = 0.05ha

Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information. Subject to detailed design.



LK CONSULT

Client: **Wain Estates (Land) Ltd**

Site: Land at Shermanbury Road

Catchment Areas

Job No.:
FRA251234

Scale (See Scale Base)
NT

App:	Revision:
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Appendix F – Greenfield Runoff Calculations

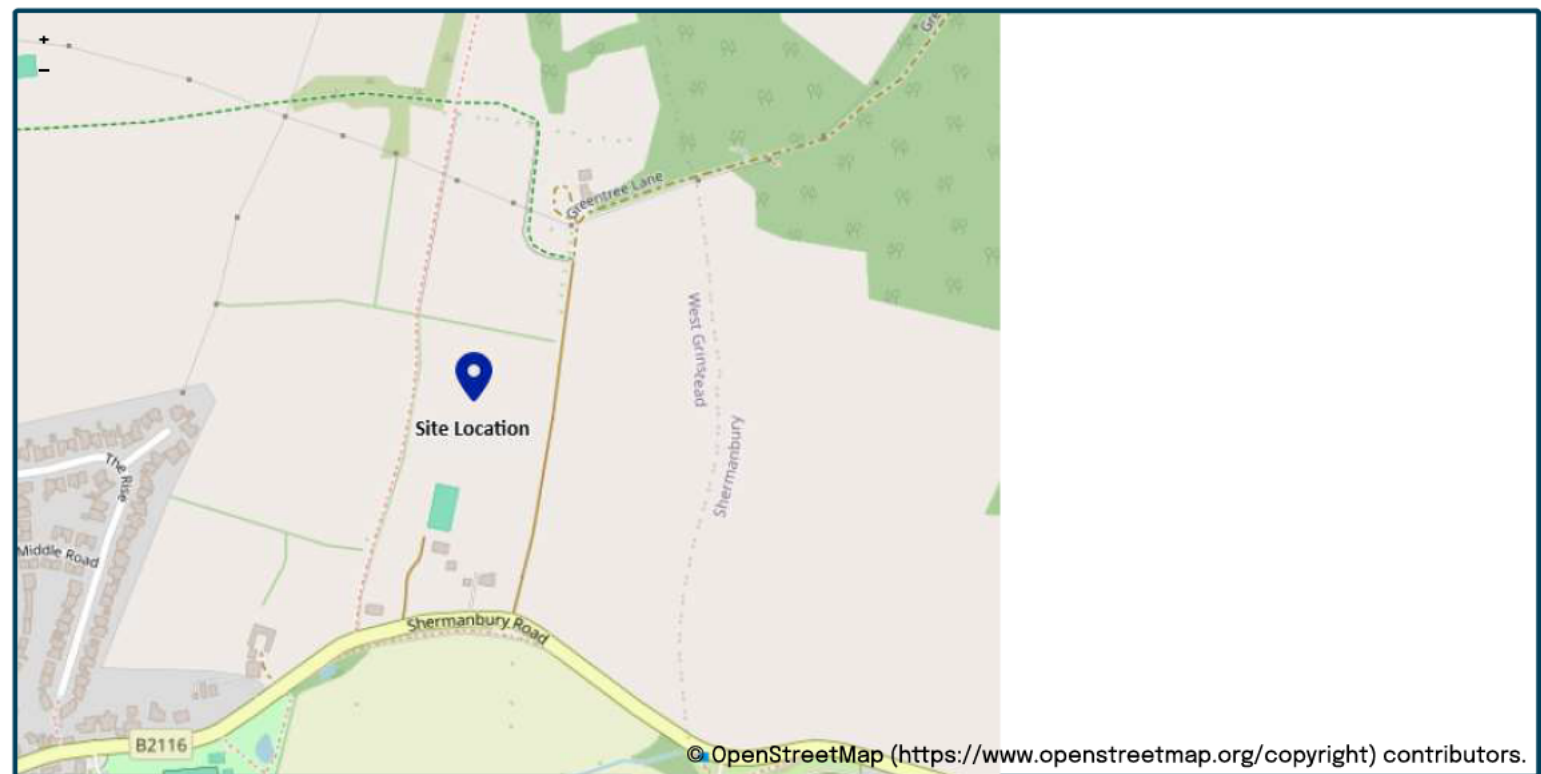
This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Project details

Date	06/07/2026
Calculated by	D Percival
Reference	FRA251234
Model version	2.2.3

Location

Site name	Partridge Green
Site location	



Site easting (British National Grid)	519822
Site northing (British National Grid)	119622

Site details

Total site area (ha)	1.90	ha
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Greenfield runoff

Method

Method	FEH statistical (2025)
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FEH statistical (2025)

	<u>My value</u>	<u>Map value</u>
SAAR9120 (mm)	825	mm
BFIHOST19scaled	0.236	
QMed-QBar conversion	1.136	1.136
QMed (l/s)	14.7	l/s
QBar (FEH statistical 2025) (l/s)	16.7	l/s

Growth curve factors

	<u>My value</u>	<u>Map value</u>
Hydrological region	7	7
1 year growth factor	0.85	
2 year growth factor	0.88	
10 year growth factor	1.62	
30 year growth factor	2.3	
100 year growth factor	3.19	
200 year growth factor	3.74	

Results

Method	FEH statistical (2025)	
Flow rate 1 year (l/s)	14.2	l/s
Flow rate 2 year (l/s)	14.7	l/s
Flow rate 10 years (l/s)	27.0	l/s
Flow rate 30 years (l/s)	38.3	l/s
Flow rate 100 years (l/s)	53.1	l/s
Flow rate 200 years (l/s)	62.3	l/s

Please note runoff estimation is subject to significant uncertainty. Results are therefore normally reported to only 1 decimal place. Where 2 decimal places are provided, this does not indicate accuracy to this level, it has been adopted to prevent 'zero' figures from being reported. Outputs less than 0.01 l/s are reported as 0.01 l/s.

Disclaimer

This report was produced using the Greenfield runoff rate estimation tool (2.2.3) developed by HR Wallingford and available at uksuds.com (<https://www.uksuds.com/>). The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at uksuds.com/terms-conditions (<https://www.uksuds.com/terms-conditions>). The outputs from this tool have been used to estimate Greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, Centre for Ecology and Hydrology, Wallingford Hydrosolutions or any other organisation for the use of these data in the design or operational characteristics of any drainage scheme.

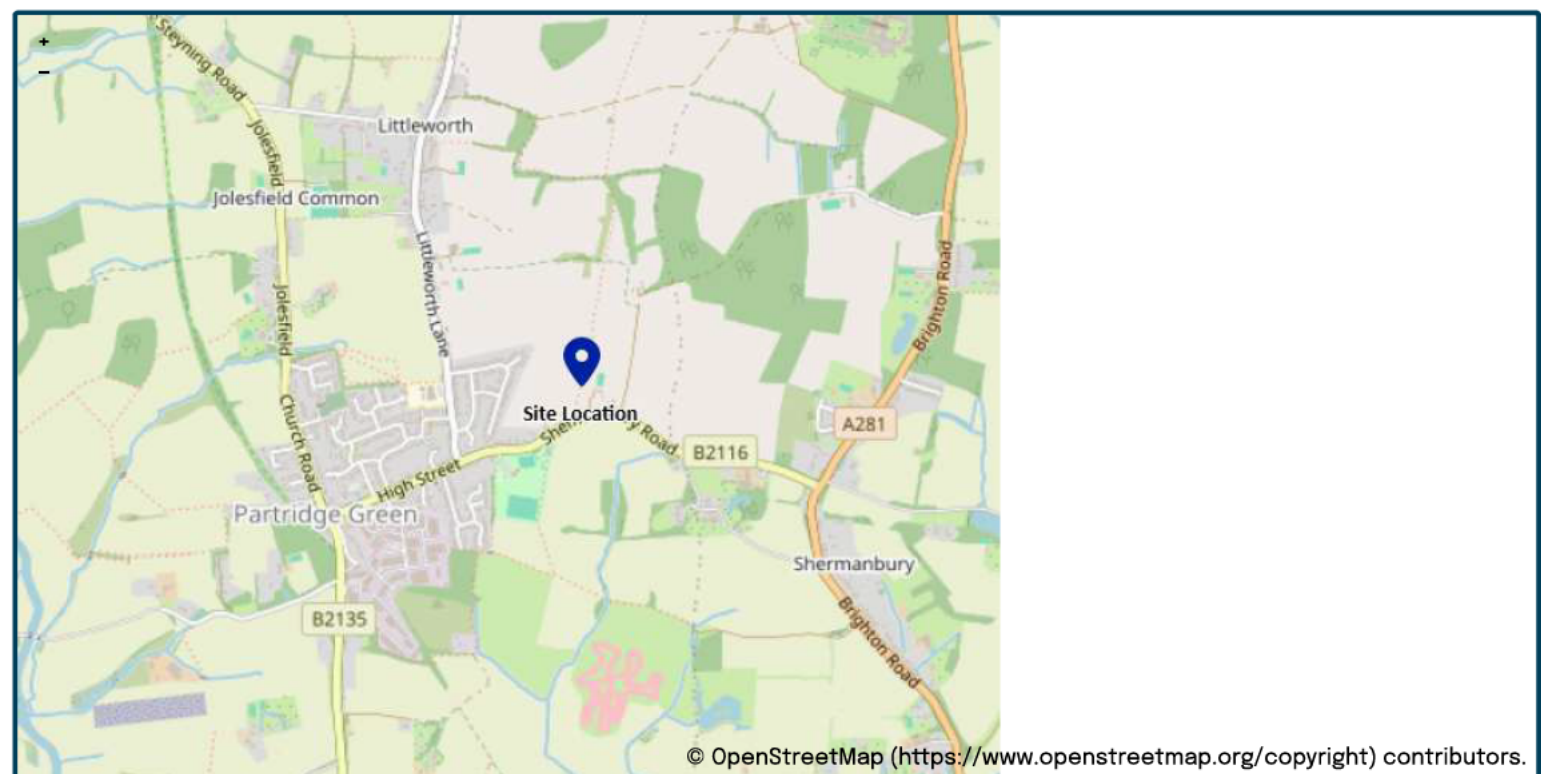
This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Project details

Date	03/07/2026
Calculated by	D Percival
Reference	FRA251234
Model version	2.2.3

Location

Site name	Partridge Green
Site location	



Site easting (British National Grid)	519735
Site northing (British National Grid)	119451

Site details

Total site area (ha)	0.05	ha
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Greenfield runoff

Method

Method	FEH statistical (2025)
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FEH statistical (2025)

	<u>My value</u>	<u>Map value</u>
SAAR9120 (mm)	825	mm
BFIHOST19scaled	0.236	
QMed-QBar conversion	1.136	1.136
QMed (l/s)	0.4	l/s
QBar (FEH statistical 2025) (l/s)	0.4	l/s

Growth curve factors

	<u>My value</u>	<u>Map value</u>
Hydrological region	7	7
1 year growth factor	0.85	
2 year growth factor	0.88	
10 year growth factor	1.62	
30 year growth factor	2.3	
100 year growth factor	3.19	
200 year growth factor	3.74	

Results

Method	FEH statistical (2025)	
Flow rate 1 year (l/s)	0.4	l/s
Flow rate 2 year (l/s)	0.4	l/s
Flow rate 10 years (l/s)	0.7	l/s
Flow rate 30 years (l/s)	1.0	l/s
Flow rate 100 years (l/s)	1.4	l/s
Flow rate 200 years (l/s)	1.6	l/s

Please note runoff estimation is subject to significant uncertainty. Results are therefore normally reported to only 1 decimal place. Where 2 decimal places are provided, this does not indicate accuracy to this level, it has been adopted to prevent 'zero' figures from being reported. Outputs less than 0.01 l/s are reported as 0.01 l/s.

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Appendix G – QSE Calculations

Catchment 1 QSE

Storage Estimate

Return Period (years)	100	OK
Climate Change (%)	45	Cancel
Impermeable Area (ha)	1.320	Update
Peak Discharge (l/s)	16.700	
Infiltration Coefficient (m/hr) (leave blank if no infiltration)		Calc
Required Storage (m³)	Calc	
from	994	
to	1372	
With infiltration (m³)		
from		
to		

Catchment 2 QSE

Storage Estimate

Return Period (years)	100	OK
Climate Change (%)	45	Cancel
Impermeable Area (ha)	0.050	Update
Peak Discharge (l/s)	0.400	
Infiltration Coefficient (m/hr) (leave blank if no infiltration)		Calc
Required Storage (m³)	Calc	
from	43	
to	58	
With infiltration (m³)		
from		
to		
