

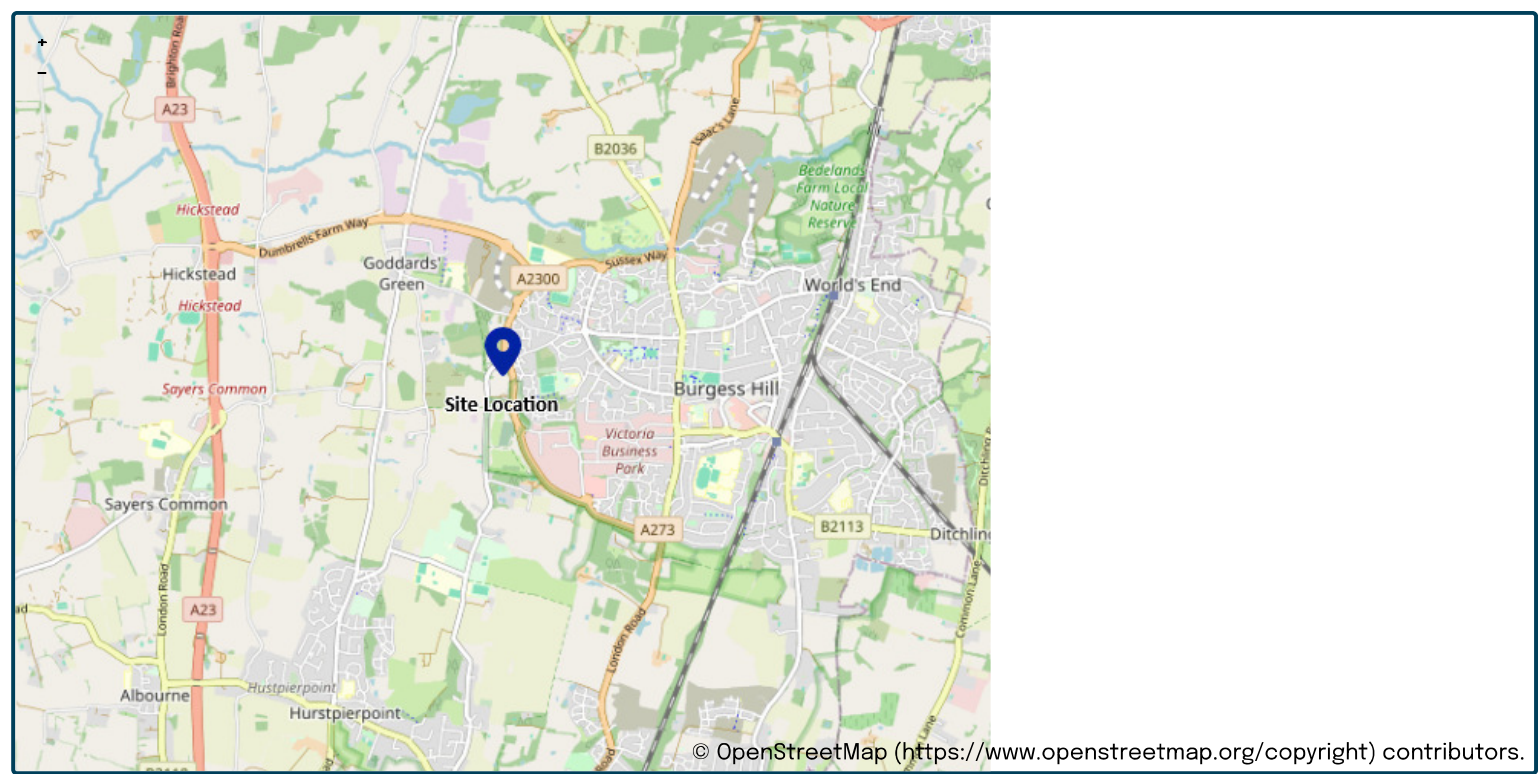
This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). 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          | 02/05/2025       |
| Calculated by | SDA              |
| Reference     | 1894 - Eastlands |
| Model version | 2.0.0            |

## Location

|               |                                    |
|---------------|------------------------------------|
| Site name     | Eastlands Farmhouse Hurstpierpoint |
| Site location | Hurstpierpoint                     |



|               |        |
|---------------|--------|
| Site easting  | 529359 |
| Site northing | 119099 |

## Site details

|                      |     |    |
|----------------------|-----|----|
| Total site area (ha) | 0.2 | ha |
|----------------------|-----|----|

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MORE INFO

# Greenfield runoff

## Method

|                            |                                                           |                                            |                |
|----------------------------|-----------------------------------------------------------|--------------------------------------------|----------------|
| Method                     | <div>IH124</div>                                          |                                            |                |
|                            |                                                           |                                            |                |
| IH124                      |                                                           |                                            |                |
|                            |                                                           |                                            |                |
|                            |                                                           |                                            |                |
| SAAR (mm)                  | <div><div>My value</div><div>823</div><div>mm</div></div> | <div><div>Map value</div><div></div></div> | <div>823</div> |
| How should SPR be derived? | <div>WRAP soil type</div>                                 |                                            |                |
| WRAP soil type             | <div>4</div>                                              | <div></div>                                | <div>4</div>   |
| SPR                        | <div>0.47</div>                                           |                                            |                |
| QBar (IH124) (l/s)         | <div>1.2</div>                                            | <div>l/s</div>                             |                |

## Growth curve factors

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

## Results

|                           |                  |                |
|---------------------------|------------------|----------------|
| Method                    | <div>IH124</div> |                |
| Flow rate 1 year (l/s)    | <div>0.99</div>  | <div>l/s</div> |
| Flow rate 2 year (l/s)    | <div>1</div>     | <div>l/s</div> |
| Flow rate 10 years (l/s)  | <div>1.9</div>   | <div>l/s</div> |
| Flow rate 30 years (l/s)  | <div>2.7</div>   | <div>l/s</div> |
| Flow rate 100 years (l/s) | <div>3.7</div>   | <div>l/s</div> |
| Flow rate 200 years (l/s) | <div>4.4</div>   | <div>l/s</div> |

Disclaimer

This report was produced using the Greenfield runoff rate estimation tool (2.0.0) 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) (<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.