

## **L. Urban Greening Factor**

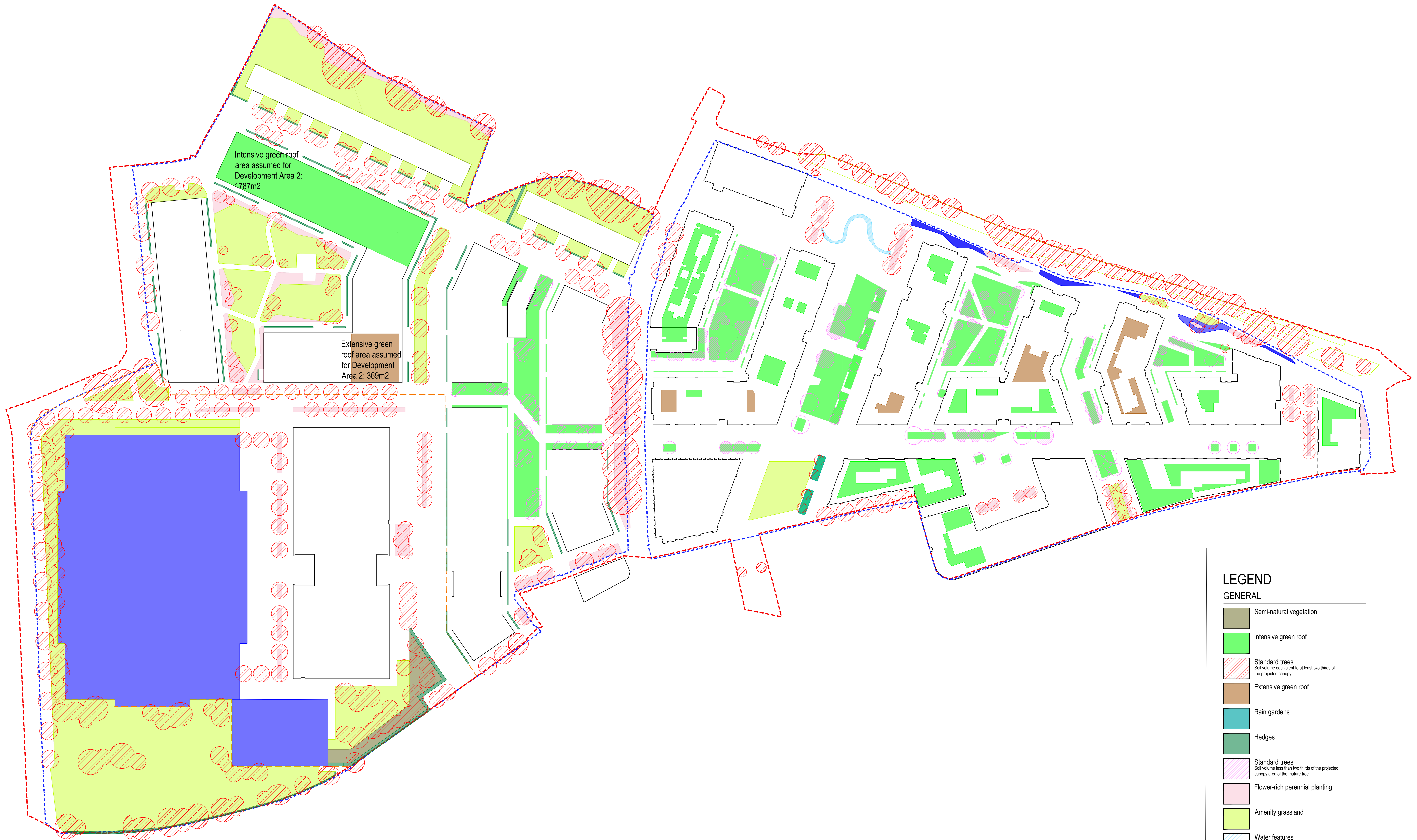
### **Appendices**

The Former Stag Brewery, Mortlake

Project Number: WIE18671

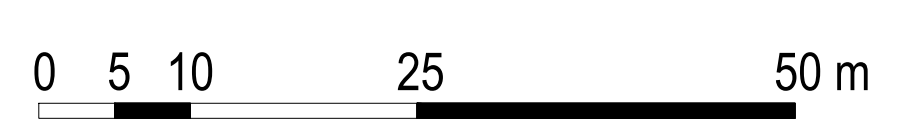
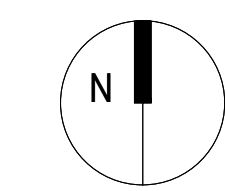
Document Reference: WIE18671-104-R-11-7-1-DS





rev	details	by	date
P00	Issued for planning submission	WQ	11.03.2022

**Notes**  
 1.0 Do not scale from drawing, use figured dimensions only  
 1.1 All dimensions to be checked onsite  
 1.2 This drawing to be read in conjunction with all other Gillespies drawings and specifications



Project title  
**STAG BREWERY**

Drawing title  
**URBAN GREENING FACTOR - SITE WIDE**

Drawing number		Revision	
P10736-00-004-GIL-0802		P00	
Drawing Status	Date	Scale	Drawn / Checked
PLANNING	11.03.2022	1:500 @ AD	WQ / JG

Client  
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## **M. Foul Flow Estimate**

### **Appendices**

The Former Stag Brewery, Mortlake

Project Number: WIE18671

Document Reference: WIE18671-104-R-11-7-1-DS



Project Title: **Stag Brewery**  
 Calculations Title: **Existing Foul Flow Estimate**

Sheet No: 1 of 3 Project No: WIE18671  
 By: M Stuart Date: 18/02/2022  
 Checked: B McCarthy Date: 18/02/2022

	Dry Weather Flow Rate (per day)	Source	Number of .....	Factor	Profile (hours)	Peak Flow Rate (litres/second)
<b>Residential</b>				2.12	24	
Existing property = 160 litres/person/day	368.0 litres per unit	Thames Water Guidelines (2016)	0 existing units			0.0
New property = 125 litres/person/day	287.5 litres per unit	Thames Water Guidelines (2016)	0 proposed units			0.0
Occupancy = 2.3 persons						
<b>Hotel</b>	500.0 litres per room	British Water (2013)	15 rooms		3 24	0.3
<b>Student Accommodation</b>	200.0 litres per bed	Thames Water Guidelines (2016)	0 beds		3 24	0.0
<b>Offices</b>	750.0 litres per 100m <sup>2</sup>	Jones (1992)	2318 m <sup>2</sup>		3 10	1.4
<b>Retail</b>	400.0 litres per 100m <sup>2</sup>	Jones (1992)	0 m <sup>2</sup>		3 12	0.0
<b>Cinema</b>	10.0 litres per seat	Jones (1992)	0 seats*		3 8	0.0
<b>Health Club/Sports Centre</b>	50.0 litres per customer	British Water (2013)	168 customers**		3 16	0.4
<b>Day School</b>	90.0 litres per pupil	British Water (2013)	0 pupils		3 10	0.0
<b>Boarding School</b>	175.0 litres per pupil	British Water (2013)	0 pupils		3 24	0.0
<b>Hospital</b>	625.0 litres per bed	Jones (1992)	0 beds		3 24	0.0
<b>Nursing Home</b>	350.0 litres per bed	British Water (2013)	0 beds		3 24	0.0
<b>Restaurant</b>	30.0 litres per cover	British Water (2013)	0 covers		3 8	0.0
<b>Pub/Club</b>	15.0 litres per customer	Butler and Davies (2004)	0 customers***		3 12	0.0
<b>Warehouse</b>	150.0 litres per 100m <sup>2</sup>	Jones (1992)	0 m <sup>2</sup>		3 12	0.0
<b>Manufacturing</b>	550.0 litres per 100m <sup>2</sup>	Jones (1992)	28671 m <sup>2</sup>		3 12	11.0
<b>Commercial</b>	300.0 litres per 100m <sup>2</sup>	Jones (1992)	0 m <sup>2</sup>		3 12	0.0
<b>SUB TOTAL</b>						<b>13.1</b>
<b>Infiltration percentage</b> 10%						<b>1.3</b>
<b>TOTAL</b>						<b>14.4</b>

\* Foul flow rate needs to be calculated based on number of seats. An allowance of 4m<sup>2</sup> has been made for each seat.

Floor area = 0 m<sup>2</sup> 4 m<sup>2</sup> per person

\*\* Foul flow rate needs to be calculated based on number of customers. An allowance of 4m<sup>2</sup> has been made for each customer.

Floor area = 672 m<sup>2</sup> 4 m<sup>2</sup> per person

\*\*\* Foul flow rate needs to be calculated based on number of customers. An allowance of 4m<sup>2</sup> has been made for each customer.

Floor area = 0 m<sup>2</sup> 4 m<sup>2</sup> per person



Project Title: **Stag Brewery**  
 Calculations Title: **Proposed Foul Flow Estimate**

Sheet No: 2 of 2 Project No: WIE18671  
 By: S Whelan Date: 02/08/2022  
 Checked: B McCarthy Date: 02/08/2022

	Dry Weather Flow Rate (per day)	Source	Number of .....	Factor	Profile (hours)	Peak Flow Rate (litres/second)
<b>Residential</b>				2.12	24	
Existing property = 160 litres/person/day	400.0 litres per unit	Thames Water Guidelines (2016)	0 existing units			0.0
New property = 125 litres/person/day	312.5 litres per unit	Thames Water Guidelines (2016)	1071 proposed units			8.2
Occupancy = 2.5 persons						
<b>Hotel</b>	500.0 litres per room	British Water (2013)	15 rooms	3	24	0.3
<b>Student Accommodation</b>	200.0 litres per bed	Thames Water Guidelines (2016)	0 beds	3	24	0.0
<b>Offices</b>	750.0 litres per 100m <sup>2</sup>	Jones (1992)	4468 m <sup>2</sup>	3	10	2.8
<b>Retail</b>	400.0 litres per 100m <sup>2</sup>	Jones (1992)	4782 m <sup>2</sup>	3	12	1.3
<b>Cinema</b>	10.0 litres per seat	Jones (1992)	334 seats*	3	8	0.3
<b>Health Club/Sports Centre</b>	50.0 litres per customer	British Water (2013)	0 customers**	3	16	0.0
<b>Day School</b>	90.0 litres per pupil	British Water (2013)	1200 pupils	3	10	9.0
<b>Boarding School</b>	175.0 litres per pupil	British Water (2013)	0 pupils	3	24	0.0
<b>Hospital</b>	625.0 litres per bed	Jones (1992)	0 beds	3	24	0.0
<b>Nursing Home</b>	350.0 litres per bed	British Water (2013)	0 beds	3	24	0.0
<b>Restaurant</b>	30.0 litres per cover	British Water (2013)	0 covers	3	8	0.0
<b>Pub/Club</b>	15.0 litres per customer	Butler and Davies (2004)	0 customers***	3	12	0.0
<b>Warehouse</b>	150.0 litres per 100m <sup>2</sup>	Jones (1992)	0 m <sup>2</sup>	3	12	0.0
<b>Manufacturing</b>	550.0 litres per 100m <sup>2</sup>	Jones (1992)	0 m <sup>2</sup>	3	12	0.0
<b>Commercial</b>	300.0 litres per 100m <sup>2</sup>	Jones (1992)	0 m <sup>2</sup>	3	12	0.0
<b>SUB TOTAL</b>						21.9
<b>Infiltration percentage</b> 10%						2.2
<b>TOTAL</b>						<b>24.1</b>

\* Foul flow rate needs to be calculated based on number of seats. An allowance of 4m<sup>2</sup> has been made for each seat.

Floor area = 1606 m<sup>2</sup> 4 m<sup>2</sup> per person

\*\* Foul flow rate needs to be calculated based on number of customers. An allowance of 4m<sup>2</sup> has been made for each customer.

Floor area = 0 m<sup>2</sup> 4 m<sup>2</sup> per person

\*\*\* Foul flow rate needs to be calculated based on number of customers. An allowance of 4m<sup>2</sup> has been made for each customer.

Floor area = 0 m<sup>2</sup> 4 m<sup>2</sup> per person



Sheet No: 3 of 3      Project No: WIE18671  
By: S Whelan      Date: 02/08/2022  
Checked: B McCarthy      Date: 02/08/2022

**Project Title: Stag Brewery**  
**Proposed Foul Flow Estimate by development**  
**Calculations Title: block**

**Description:**      **The proposed foul flows per development block have been calculated based on the number of residential units, commercial floor space, cinema seating, hotel rooms, and number of students attending the school, as captured within the proposed foul flow estimate calculation (Sheet 2 of 3) and the development proposals (Appendix A).**

Development Block	TW Manhole ref	Foul Flow (l/s)
1	4902	2.0
2	3005	1.1
3	4101	0.4
4	4101	0.3
5	4903	1.8
6	4901	0.3
7	4101	0.8
8	4101	0.9
9	6003	0.2
10	6901	0.3
11	6003	0.5
12	6003	0.5
13	3005	0.3
14	3901	0.3
15	3901	0.9
16	3007	0.6
17	3005	0.6
18	3007	0.9
19	3007	0.4
20	3007	0.1
21	3007	0.1
School	2801	9.0
<b>Total</b>	-	<b>21.9</b>

## Our vision

***“Engineering a better environment for people and the planet”***

## Our mission

***“To solve complex problems for the benefit of clients, communities and the climate”***

## Our values

### ***People orientated***

Individually and collectively, people are our business. We strive to create environments for everyone to flourish and thrive.

### ***Flexible***

Pragmatic by nature and dedicated to getting the job done to the highest possible standard.

### ***Professional***

Operating at pace with integrity to deliver technical and robust solutions.

### ***Environmentally aware***

We understand our responsibility to the environment, it shapes our decision making and informs our practice.

### ***Innovative***

Our forensic questioning provides the ability to deliver appropriate innovations at every stage on every project.

### ***Relationship focused***

We value individuality and the benefits of working collaboratively to achieve positive outcomes for all.

