



NOTES

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Construction
A - For Construction, B - For Construction but With Comments (i.e. areas in abeyance), C - Comprehensive Revisions Required.

Legend

- Proposed main road for adoption
- Development parcels
- 5m Building buffer
- Indicative soakaway positions

Notes:

- BSXX - Southern development block
- BNXX - Northern development block
- SBXX - Southern attenuation basin
- NBXX - Northern attenuation basin

P1	Issued for Information	19.10.18	JC
REV	DESCRIPTION	DATE	BY

CampbellReith
consulting engineers

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SURREY 01737 784 500 ☐ BIRMINGHAM 01675 467 484
BRISTOL 0117 916 1066 ☒ DUBAI 00 971 4345 7088
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CLIENT
Landlink Estates
JOB TITLE
Land East of Drove Lane, Yapton

Soakaway viability
-
5m building buffer

DRAWN BY
JC
DATE MADE
10.18
SCALE
1:1000
CT CHECKED
CRH
SUITABILITY
S2
CR PROJECT
13024

PROJECT No.	ISSUER	AREA	LEVEL	TYPE	ROLE	NUMBER	REV
13024	CRH	Z1	00	DR	C	5053	P1



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Legend

- Proposed main road for adoption
- Development parcels
- Detention basins
- Indicative soakaway positions
- Permeable paving
- Permeable driveways
- Proposed surface water pipes

Notes:

BSXX - Southern development block
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REV	DESCRIPTION	DATE	BY

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CLIENT
Landlink Estates

JOB TITLE
Land East of Drove Lane, Yapton

Proposed drainage strategy layout

DRAWN BY	DATE MADE	SCALE	@ A1	C1	CHECKED	SUITABILITY	OR PROJECT
JC	10.18	1:1000	CRH	S2	13024		

PROJECT No.	ISSUER	AREA	LEVEL	TYPE	ROLE	NUMBER	REV
13024	CRH	Z1	00	DR	C	5054	P1

Calculated by: Bava Sathan

Site name: Land East of Drove Lane

Site location: Yapton

Site coordinates

Latitude: 50.81988° N

Longitude: 0.61881° W

This is an estimation of the greenfield runoff rate limits that are needed to meet normal best practice criteria in line with Environment Agency guidance "Preliminary rainfall runoff management for developments", W5-074/A/TR1/1 rev. E (2012) and the SuDS Manual, C753 (Ciria, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Reference: 6429693

Date: 2018-09-18T14:52:58

Methodology

IH124

Site characteristics

Total site area (ha)	12.9
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Methodology

Qbar estimation method	Calculate from SPR and SAAR
SPR estimation method	Calculate from SOIL type

	Default	Edited
SOIL type	2	3
HOST class	---	---
SPR/SPRHOST	0.3	0.37

Hydrological characteristics

	Default	Edited
SAAR (mm)	741	741
Hydrological region	7	7
Growth curve factor: 1 year	0.85	0.85
Growth curve factor: 30 year	2.3	2.3
Growth curve factor: 100 year	3.19	3.19

Notes:

(1) Is $Q_{BAR} < 2.0$ l/s/ha?

Normally limiting discharge rates which are less than 2.0 l/s/ha are set at 2.0 l/s/ha.

(2) Are flow rates < 5.0 l/s?

(3) Is $SPR/SPRHOST \leq 0.3$?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite may be a requirement for disposal of surface water runoff.

Greenfield runoff rates

	Default	Edited
Qbar (l/s)	25.13	39.61
1 in 1 year (l/s)	21.36	33.67
1 in 30 years (l/s)	57.8	91.1
1 in 100 years (l/s)	80.16	126.36

Project Name:

LAND EAST OF DROVE LANE, YAPTON

Project Number:

13024

SUDS features infiltration and storage provision

	10 year - critical storm			100 year - critical storm							10 year - critical storm	100 year - critical storm
Areas	Volume runoff	Infiltration - 10y	Storage required - 10year	Volume runoff	Infiltration - 100y	Storage required - 100y	Storage provided - PPp	Storage provided - PPr	Storage provided - SA	Total storage	Additional storage required (10y)	Additional storage required (100y)
BN1	39.32	10.56	28.76	105.30	21.13	84.18	36.99	47.30	0.00	84.29	0.00	0.00
BN2	40.63	12.51	28.11	108.81	25.03	83.78	51.71	48.15	0.00	99.85	0.00	0.00
BN3	45.70	11.33	34.37	133.93	33.99	99.94	67.64	22.77	0.00	90.41	0.00	9.53
BN4	62.21	17.86	44.35	166.59	35.72	130.87	75.87	57.08	8.50	141.44	0.00	0.00
BN5	37.95	11.98	25.97	101.63	23.96	77.68	52.38	43.19	0.00	95.57	0.00	0.00
BN6	54.60	14.83	39.77	146.23	29.66	116.57	66.69	51.64	0.00	118.33	0.00	0.00
BN7	67.56	20.27	47.29	180.94	40.55	140.40	107.19	54.57	0.00	161.76	0.00	0.00
BN8	66.66	19.58	47.08	178.53	39.16	139.37	102.60	53.63	0.00	156.23	0.00	0.00
BN9	77.39	18.17	59.22	226.79	54.51	172.28	127.31	0.00	15.70	143.00	0.00	29.28
BN10	27.65	8.55	19.10	74.06	17.10	56.96	33.62	29.96	4.14	67.71	0.00	0.00
BN11	91.57	26.49	65.08	245.23	52.98	192.25	117.99	93.37	0.00	211.36	0.00	0.00
BN12	46.31	10.99	35.32	135.71	32.96	102.75	76.55	11.10	0.00	87.65	0.00	15.10
BN13	46.85	14.30	32.55	125.47	28.60	96.87	53.46	60.62	0.00	114.08	0.00	0.00
BN14	43.78	12.12	31.66	117.25	24.24	93.01	76.82	19.89	0.00	96.71	0.00	0.00
BS1	103.91	23.53	80.38	279.82	56.47	223.35	76.55	100.17	6.32	183.04	0.00	40.31
BS2	40.41	7.32	33.08	108.82	17.58	91.24	24.44	32.79	0.00	57.23	0.00	34.01
BS3	61.88	10.66	51.23	166.64	25.58	141.06	47.25	36.00	0.00	83.25	0.00	57.81
BS4	91.71	19.21	72.50	246.97	46.10	200.87	91.67	58.40	0.00	150.07	0.00	50.80
BS5	111.41	24.33	87.08	300.01	58.39	241.62	116.78	73.28	0.00	190.06	0.00	51.56
BS6	77.98	14.20	63.77	209.98	34.09	175.89	60.21	50.75	0.00	110.96	0.00	64.94
BS7	83.38	16.98	66.40	224.52	40.74	183.78	72.09	60.53	0.00	132.62	0.00	51.17
BS8	58.12	11.12	47.00	156.50	26.69	129.81	68.45	18.43	0.00	86.87	0.00	42.94
Road	182.19	0.00	182.19	400.10	0.00	400.10	0.00	0.00	0.00	0.00	182.19	400.10
	1559.16	336.89	1222.27	4139.84	765.21	3374.62	1604.21	1023.62	34.65	2662.48	182.19	847.55

Attenuation basins storage porvision

Area	Basin Area	Depth	Volume of basin	Volume runoff	Infiltration	Effective volume left	Volume required - blocks	Volume overflow, to be discharged	Blocks draining to basins
SB1	249.00	0.40	99.60	24.04	4.30	79.86	40.31	0.00	BS1
SB2	475.00	0.40	190.00	45.87	8.21	152.34	91.82	0.00	BS2 and BS3
SB3	433.00	0.40	173.20	41.81	7.48	138.87	107.88	0.00	BS6 and BS8
SB4	1271.00	0.40	508.40	122.73	21.96	407.63	553.63	146.00	BS4, BS5 and BS7 and road
NB1	326.00	0.40	130.40	22.18	5.52	113.74	0.00	0.00	half of BN14
NB2	972.00	0.40	388.80	66.12	16.45	339.12	44.38	0.00	BN8 to BN14
NB3	277.00	0.40	110.80	18.84	4.69	96.64	9.53	0.00	BN1 to BN7

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