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Project No.: 8849 Date: 30.06.2011 TSA 2
 Project Title: Homestead 30% Rev 3



Reject/Rubble Filled Soakaway Assessment to BRE Digest 365

Site Location: Westergate, W Sussex

$r = 0.37$ (range 0.12 to 0.45)

Drained Area = 255 m²

Pit Length $L_x = 1$ m

Pit Length $L_y = 9$ m

Soakaway Invert = 9.45 m

Entry Pipe Invert = 10.49 m

% Void in fill = 95 %

TOTAL STORAGE AVAILABLE 8.892 m³

Effective soakage area a_{50} 10.4 m²

Soil Filtration Rate = 6.96E-06 m/s

M5-60 Rainfall = 20 mm

Storm Duration	5 min	10 min	15 min	30 min	1 hr	2 hr	4 hr	6 hr	10 hr	24 hr
(secs)	300	600	900	1800	3600	7200	14400	21600	36000	86400
Value Z1	0.363	0.513	0.623	0.793	1	1.216	1.473	1.653	1.873	2.373
Rainfall M5 (mm)	7.26	10.26	12.46	15.86	20	24.32	29.46	33.06	37.46	47.46
Value Z2	1.203	1.221	1.229	1.24	1.24	1.24	1.222	1.21	1.197	1.175
Rainfall M10 (mm)	8.73	12.52	15.31	19.66	24.8	30.15	36	40	44.83	55.76
RUNOFF (m³)	2.226	3.192	3.904	5.013	6.324	7.688	9.18	10.2	11.431	14.218
SOAKAGE (m³)	0.02	0.04	0.07	0.13	0.26	0.52	1.04	1.56	2.61	6.25
eq'd STORAGE (m³)	2.205	3.14857	3.8389	4.8827	6.0634	7.1668	8.1377	8.6365	8.8252	7.964
	<i>pass</i>	<i>pass</i>	<i>pass</i>	<i>pass</i>	<i>pass</i>	<i>pass</i>	<i>pass</i>	<i>pass</i>	<i>pass</i>	<i>pass</i>