

Our ref 11336/HA/Soakaway_Testing_Letter

Matthew Utting 7 Siskin Gate Bracknell Berkshire RG12 8BF

22 December 2022

Dear Matthew,

SOAKAWAY TESTING JANES COTTAGE, DOGMERSFIELD, HOOK

Further to your recent instruction Patrick Parsons (PP) have undertaken soakaway testing at the above site to assess the viability of a soakaway drainage strategy for the proposed sceptic tank.

A Soakaway test was undertaken at one location on site (TP01) over the area of the proposed sceptic tank / soakaway, an additional two machine excavated trial holes were undertaken across the red line boundary area to confirm the variability of the on-site geology. An exploratory hole location plan of the three locations is attached to this letter.

Each trial pit was excavated using a small, tracked excavator to a depth of between 1.50m below existing ground level (begl) (TP01) and 1.80m begl (TP02 & TP03) into the underlying superficial Alluvium deposits comprising variable grey, brown and reddish brown gravelly sandy silt, gravelly sand and sandy / gravelly clay, the Engineers logs for the test pits are enclosed for reference.

The testing was undertaken using an IBC tank with a wide diameter valve to rapidly fill the test pit with water, once filled with a minimum of 1.00m head of water the drop in water level was recorded over time. The tests did not reach the required infiltration depth during the test period (dropping from 75% to 25% filled depth) and therefore an infiltration rate cannot be calculated and is considered to be "failed" test.

The soakaway results have returned the indicative infiltration rates shown below.

Soakaway Location	Test 01	Test depth range (m begl)
SA01	FAILED	0.49-1.50

The soakaway calculation sheet is enclosed for reference. Based on the results obtained from the testing it is considered that as minimal infiltration occurred that this area of the site will not be suitable for adoption of a soakaway drainage strategy and an alternative drainage strategy will be required.

It is hoped that we have fully understood your requirements. Should you require any clarification of the any of the points raised please do not hesitate to contact us.

Yours sincerely

Hugh Alder Senior Engineer For and on behalf PPCP Limited t/a Patrick Parsons, 12405519

Enc. 11336 Soakaway Test Location Plan 11336 Soakaway Pit Logs 11336 Soakaway Calculation Sheets

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Size of Soakaway

Depth of Water

Pit Dimensions

INFILTRATION RATE IN ACCORDANCE WITH BRE DIGEST 365: 2007

Client: Jeremy Cook

Site: **Dogmersfield**, Hook

Job No: 11336 Test No: SA01 Test 1

CALCULATION OF SOIL INFILTRATION RATE

Check	ZC	Input:
_		
	0.53	120
]	0.53	90
Soil in	0.53	60
	0.52	45
	0.52	35
1	0.52	30
1	0.51	25
From th	0.51	20
1	0.51	15
1	0.51	10
1	0.51	9
1	0.51	8
4	0.51	0
4	0.50	5
4	0.50	4
Depth o	0.50	3
Depth a	0.50	2
Depth a	0.50	1
Gravel	0.49	0
1	()	
1	Depth (m)	Time (min)

